

November 28, 2022

New Mexico Oil Conservation Division

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

Re: Closure Request

SEM 180

Incident Number NAPP2231544488

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the SEM 180 (Site; Figure 1). The purpose of the soil sampling activities was to assess for the presence or absence of impacts to soil following an overspray release of crude oil from the flowline into the nearby pasture. Based on Site assessment, remediation activities, and laboratory analytical results from soil sampling events, Maverick is requesting closure for Incident Number NAPP2231544488.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 23, Township 20 South, Range 37 East, in Lea County, New Mexico (32.56189° N, 103.22443° W) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On November 3, 2022, a leak from the flowline was discovered, resulting in the overspray release of approximately 3.4 barrels (bbls) of crude oil onto the lease road and adjacent pasture. Released fluids were not able to be recovered. Maverick reported the overspray release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 10, 2022. The release was assigned Incident Number NAPP2231544488.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On September 27, 2022, a New Mexico Office of the State Engineer (NMOSE) well (L-15389-POD1) was advanced to a

SEM 180

depth of 120 feet bgs via air rotary drill rig. The borehole was located approximately 0.4 miles southeast of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix A. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 100 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1. The next closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) permitted well 323358103123001, located approximately 5,017 feet northeast of the Site. The groundwater well has a reported depth to groundwater of 78.8 feet bgs and an unknown total depth. Ground surface elevation at the groundwater well location is 3,535 feet above mean sea level (amsl), which is approximately 10 feet higher in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an freshwater playa lake, located approximately 12,064 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, and wetland. The Site is greater than 1,000 feet from a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum hydrocarbons (TPH): 2,500 mg/kg
- Desiel Range Organics (DRO) TPH + Gasoline Range Organics (GRO) TPH: 1,000 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas to be reclaimed following remediation.

INITIAL SITE ASSESSMENT ACTIVITIES

On November 3, 2022, personnel were at the Site to complete Site assessment activities based on information provided by Maverick operations and visibly stained vegetation observed in the pasture overspray area. Eight discrete soil samples (SS01 through SS08) were collected within the overspray area at a depth of 0.5 feet bgs to assess for the presence or absence of impacts to soil following an overspray release of crude oil from the flowline. In addition, discrete soil samples SS09 through SS12 were collected around the overspray area to confirm the lateral extent of the overspray area.

The soil samples were field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The



SEM 180

Page 3

overspray area 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 C.

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 at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of conern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for soil samples SS01 through SS08, located within the overspray area, indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement. In addition, the lateral delineation samples (SS09 through SS12) were compliant with the reclamation requirement and successfully define the lateral extent of the overspray area. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

REMEDIATION ACTIVITIES

While impacted and/or waste-containing soil was not identified within and around the release extent, stained soil and vegetation were bio-remediated *in-situ* with the use of a pressure washer and a bio-remediation agent, Micro-Blaze® Emergency Liquid Spill Control, to increase Site aesthetics. Ensolum oversaw the remedation activities on November 3, 2022. Photographic documentation is included in Appendix C.

The total footprint of the overspray area was approximately 42,300 square feet.

CLOSURE REQUEST

Based on soil sample laboratory analytical results compliant with the reclamation requirement, remediation activities appear to have successfully remediated the crude oil impacts at the Site. Delineation soil samples collected outside the release extent successfully define the edge of the overspray area. While impacted and/or waste-containing soil was not identified within and around the release extent, stained soil and vegetation were bio-remediated *in-situ* with the use of a pressure washer and a bio-remediation agent. Maverick believes these remedial actions have been protective of human health, the environment, and groundwater. As such, Maverick respectfully requests closure for Incident Number NAPP2231544488. The Final C-141 is included in Appendix E.



Maverick Permian, LLC Closure Request SEM 180

Page 4

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

Sincerely, **Ensolum, LLC**

Kalei Jennings Senior Scientist

Kalui Jennings

Ashley Ager, PG Program Director

ashley L. ager

cc: Bryce Wagoner, Maverick Permian, LLC

Bureau of Land Management

Appendices:

Figure 1 Site Receptors Map

Figure 2 Soil Sample Location Map
Table 1 Soil Sample Analytical Results
Appendix A Lithologic/Soil Sampling Log
Appendix B Referenced Well Records

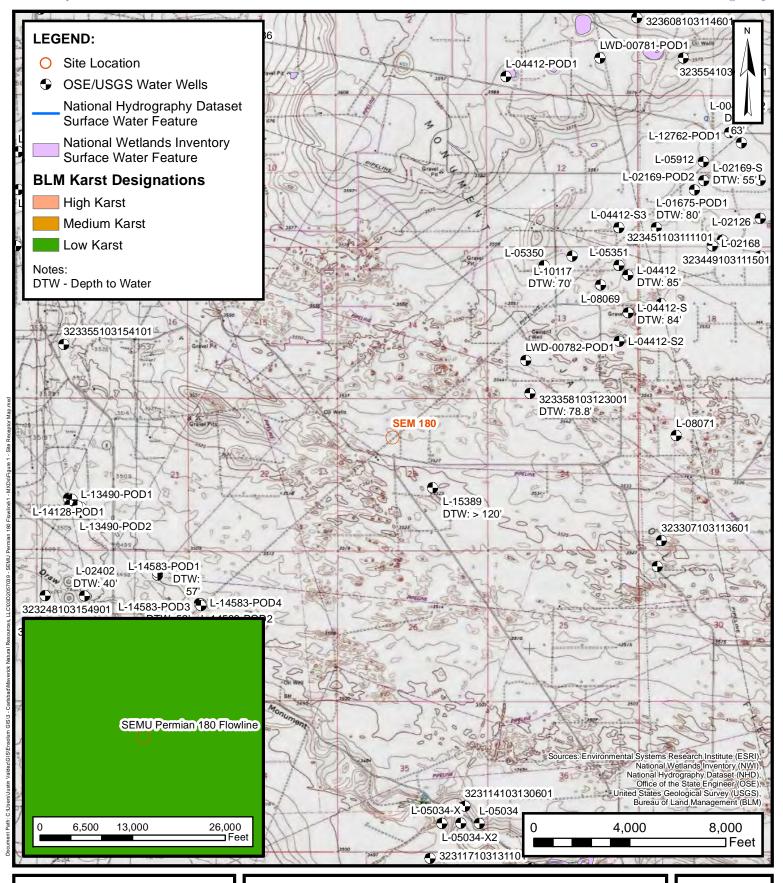
Appendix C Photographic Log

Appendix D Laboratory Analytical Reports

Appendix E Form C-141



FIGURES



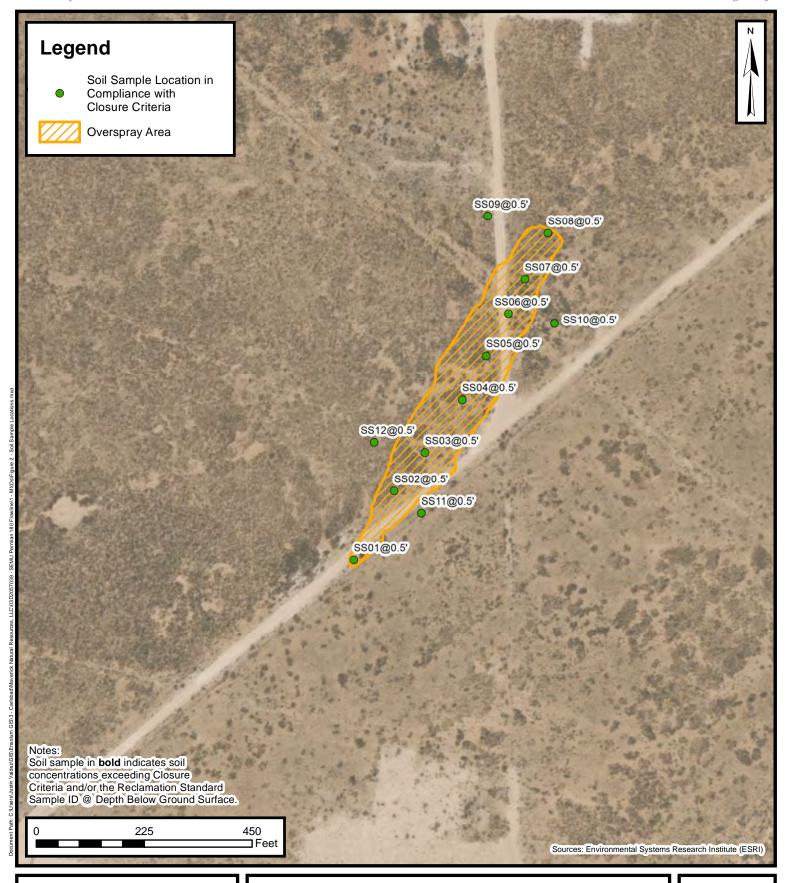


Site Receptor Map

Maverick Natural Resources, LLC SEM 180 NAPP2231544488 Unit C, Sec 23, T20S, R37E

Unit C, Sec 23, T20S, R37E Lea County, New Mexico FIGURE

1





Soil Sample Locations

Maverick Natural Resources, LLC SEM 180 NAPP2231544488 Unit C, Sec 23, T20S, R37E Lea County, New Mexico FIGURE

2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS **SEM 180 Maverick Natural Resources, LLC** Lea County, New Mexico **Total BTEX TPH GRO TPH DRO TPH ORO** GRO+DRO Sample Depth Benzene **Total TPH** Chloride Date Designation (feet bgs) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) NMOCD Table 1 Closure Criteria (NMAC 19.15.29) 10 50 1,000 2,500 20,000 NE NE NE **Soil Samples SS01** 11/03/2022 < 0.00201 < 0.00402 <50.0 < 50.0 120 0.5 <50.0 < 50.0 <50.0 SS02 11/03/2022 0.5 < 0.00199 < 0.00398 <49.9 <49.9 <49.9 <49.9 <49.9 17.2 SS03 11/03/2022 0.5 < 0.00200 < 0.00399 <49.9 <49.9 <49.9 <49.9 <49.9 56.8 **SS04** 11/03/2022 0.5 < 0.00200 < 0.00399 <49.8 <49.8 <49.8 <49.8 <49.8 15.2 SS05 11/03/2022 0.5 < 0.00199 < 0.00398 < 50.0 < 50.0 < 50.0 <50.0 <50.0 44.1 **SS06** 11/03/2022 0.5 < 0.00199 < 0.00398 <49.9 <49.9 <49.9 <49.9 <49.9 46.8 SS07 11/03/2022 0.5 < 0.00200 < 0.00399 <49.9 <49.9 <49.9 <49.9 <49.9 17.5 **SS08** 11/03/2022 0.5 < 0.00201 < 0.00402 <50.0 < 50.0 <50.0 <50.0 <50.0 16.2 SS09 11/03/2022 0.5 < 0.00398 <50.0 < 50.0 <50.0 15.9 < 0.00199 <50.0 <50.0 11/03/2022 < 0.00398 SS10 0.5 < 0.00199 < 50.0 < 50.0 <50.0 <50.0 <50.0 16.5 **SS11** 11/03/2022 0.5 < 0.00200 < 0.00399 <50.0 < 50.0 <50.0 <50.0 <50.0 14.4 **SS12** 11/03/2022 0.5 < 0.00199 < 0.00398 <50.0 < 50.0 <50.0 <50.0 <50.0 13.4

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated

Released to Imaging: 1/9/2023 12:55:30 PM



APPENDIX A

Lithologic/Soil Sampling Log

| | | | | | | 1 | | Sample Name: BHOI | Date: 09-27-22 | |
|-------------|-------------------|----------------|----------|-----------|-----------------------------|-------------------|---------------------|---|-----------------------|----------|
| F | | E | P | 1 | 501 | 11 | M | Site Name: SEMU EUMONT | # 068 | |
| L | | No. | - | A . | 301 | | SAS | Incident Number: | | |
| | | | علف | | | | | Job Number: 03D 2 55 7017 | | |
| | | LITHC | LOC | SIC / SC | OIL SAMPLING | LOG | | Logged By: (5/5) | Method: MR EUTAXY | |
| Carlo State | inates: | 1.1 | | | and a stable black of | lavida Tark (| Cautan and | Hole Diameter: | Total Depth: /201 | |
| | | | | | of soil to distilled | | | PID for chloride and vapor, respect factors included. | tively. Chloride test | 1 |
| Content | Chloride (ppm) | Vapor (nnm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Des | | |
| | | | | | | | | SAND & GRYSH-TAN | med-fran, parated | |
| | | | | | 101 | | | mod amts cu | ouy " | 12. |
| | | | | | 30, | | | CAL: Ciryon-tan, me smedl amts clo | id gn, wgrated Duy | |
| | | | | | 30 ' | | | SAND: tar-Iton; for | namolgn, pojrated | |
| | | | | | 50' | | | SAND: tan-bn, for | medan, parated | |
| | | | | | 60 | | | SAND: Hon-tan, Puf | ingn, upgrated | |
| | | | | | 70' | | | SAND: Iton-tan, 1 | fingin, up grated | |
| | | | | | | | | SAND: Itbn-tang of | n-fnan, UP-carate | d |
| | | | | | 20' | | | EAL DE LI anits CH | The roch offer, | halisten |
| | | | | | 90' | | | | ign ryp-p grated | |
| | | | | | /00 ' | | | SAND: Hon- ven-fn | occ coarse | |
| | | | | | //0' | | | SAND: Iton-vfn-fi tramts clay | the paragraph of | |
| | | | | | ~101' | | | SANO: Itbn ufn-sa traints Cli | our up grated | |



APPENDIX B

Referenced Well Records

PAGE 1 OF 2

WELL TAG ID NO.



| | OSE POD NO. (12-15389-PO) | | .) | | WELL TAG ID NO |). | | OSE FILE NO(| S). | | | | |
|---|--------------------------------|----------|------------------------------|---|-------------------------------|----------------|---------|--|------------------------------------|-------------------|--------------------------|---------------------|--|
| | WELL OWNER | | AL RESOURCES | LLC | | | - 17 | PHONE (OPTIO 928-241-186 | NE (OPTIONAL) 241-1862 | | | | |
| | WELL OWNER 410 NW CO | | | | | | | CITY HOBBS | | STATE NM | 88240 | ZIP | |
| | WELL LOCATION (FROM GPS) | | TITUDE | 32 -103 | 33 13 | SECONI 25.8 | 8 N | | REQUIRED: ONE TEN | TH OF A SEC | COND | | |
| S | | RELATIN | NG WELL LOCATION TO | | | | | SS (SECTION, TO | WNSHJIP, RANGE) WH | ERE AVAIL | ABLE | | |
| | LICENSE NO. WD-11 | 84 | NAME OF LICENSED | | LL SOUTHER | LAND | | | NAME OF WELL DR WEST TEXAS | | | VICE | |
| | DRILLING STA 9/27/20 | | DRILLING ENDED 09/27/2022 | DEPTH OF CO | MPLETED WELL (F | T) | BORE HO | LE DEPTH (FT) | DEPTH WATER FIR | ST ENCOUN | TERED (FT) | | |
| | COMPLETED V | WELL IS: | ARTESIAN | ✓ DRY HOL | E SHALLO | OW (UNCON | FINED) | | STATIC WATER LEV | VEL IN COM N/A | PLETED WEI | L (FT) | |
| | DRILLING FLU | ID: | ✓ AIR | ☐ MUD | ADDITIV | VES – SPECI | FY: | | | | | | |
| - | DRILLING MET | THOD: | ROTARY | HAMMER | CABLE? | TOOL | ОТНЕ | R - SPECIFY: | | | | | |
| | DEPTH (feet bgl) FROM TO | | BORE HOLE DIAM (inches) | CASING MATERIAL GRADE (include each casing st note sections of se | | , and | CON | ASING NECTION TYPE ling diameter) | CASING INSIDE DIAM. (inches) | THICI | G WALL KNESS thes) | SLC SIZ (inch | |
| | | | | NO CASING IN HOLE | | | | | | | | | |
| | | | | | | | | | OSE DII OCT | 14 2022 | 2 PM2:31 | | |
| | | | | | | | | | | | | | |
| | DEPTH (fo | eet bgl) | BORE HOLE DIAM. (inches) | 1 2 2 2 2 | ST ANNULAR S VEL PACK SIZE | | | | AMOUNT (cubic feet) | | METHOI PLACEM | | |
| | | | | | | N/A | | | | | | | |
| | | | | | | INO. | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | 0 WELL RECORD | | | | |

LOCATION 205

| | DEPTH (1 | feet bgl) | | COLOBAN | ID TYPE OF MA | TEDIAL E | NCOUNTERED | | | TED | ESTIMATED |
|------------------------------|-----------------------|----------------------------------|--|---|------------------------------|----------------------|---------------|-----------|------------------------|-----------------------|---|
| | FROM | то | THICKNESS (feet) | INCLUDE WATE | ER-BEARING CA | AVITIES O | | ONES | BEAL | TER RING? / NO) | YIELD FOR WATER- BEARING ZONES (gpm) |
| | 0 | 1 | | | CALICI | HE PAD | | | Y | ✓ N | |
| | 1 | 20 | | | SA | ND | | | Y | ✓ N | |
| | 20 | 21 | | | LIMES | TONE | | | Y | ✓ N | |
| | 21 | 100 | | | SA | ND | | | Y | ✓ N | |
| | | | | | | | | | Y | N | |
| 7 | | | | | | | | | Y | N | |
| WEI | | | | | | | | | Y | N | |
| OF | | | | | | | | | Y | N | |
| 900 | | | | | | | | | Y | N | |
| CI | | | | | | | | | Y | N | |
| 4. HYDROGEOLOGIC LOG OF WELL | | | | | | | | | Y | N | |
| EO | | | | | | | | | Y | N | |
| ROC | | | | | | | | | Y | N | |
| HXD | | | | | | | | | Y | N | |
| 4 | | | | | | | | | Y | N | |
| | | | | | | | | | Y | N | |
| | | | | | | | | | Y | N | |
| | | | | | | | | | Y | N | |
| | | | | | | | | | Y | N | |
| | | | | | | | | | Y | N | |
| | | | | | | | | | Y | N | |
| | METHOD U | | | OF WATER-BEARIN | G STRATA: THER – SPECIF | :DRY H | OLE | | TAL ESTII ELL YIELI | | 0.00 |
| Z | WELL TES | | | ACH A COPY OF DAT ME, AND A TABLE SI | | | | | | | |
| 5. TEST; RIG SUPERVISION | MISCELLA | NEOUS IN | FORMATION: | | | | | 0561 | DIT OCT . | 14 202: | 2 PM2:31 |
| S. TEST | PRINT NAM | | | VISOR(S) THAT PRO | VIDED ONSITE | SUPERVI | SION OF WELL | CONSTR | UCTION C | THER TI | HAN LICENSEE |
| 6. SIGNATURE | BY SIGNIN RECORD O | G BELOW F THE ABO ORD WILL | , I CERTIFY TH DVE DESCRIBED ALSO BE FILED | AT TO THE BEST OF WELL. I ALSO CERT WITH THE PERMIT I | TFY THAT THE HOLDER WITHI | WELL TA N 30 DAYS | G. IF REOUIRE | D. HAS BI | EEN INSTA ON OF WE | LLED A | ND THAT THIS |
| FOR | OGE INTER | | | | | | WD 20 | WELLB | ECOPD 6 | LOGAV | reion 04/20/2014 |
| _ | E NO. L- | | | | POD NO. | 1 | TRN N | | 3355 | | rsion 04/30/2019 |
| | - | | | | | | | | - 77 | | |



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

| Vell | owner: MAVERICK NATURA | L RESOURCES LL | С | | - | Phone | No.: 928 | 1-241-1862 | |
|-------|--|---|------------------------|-----------------------|------------------------|------------------|------------------|---|----|
| faili | ng address: 1410 NW COUN | TY RD | | | | | | | |
| ity: | HOBBS | | State: _ | | NEW | MEXICO | | _ Zip code: 88240 | |
| | | | | | | | | | |
| . W | ELL PLUGGING INFORM | IATION: | | | | | | | |
| | Name of well drilling com | pany that plugged v | well: WE | ST TEX | (AS WA | TER WE | LL SERV | ICE | |
| | New Mexico Well Driller | | | | | | | ation Date: 10/31/20 | 23 |
| | Well plugging activities w RUSSELL SOUTHERLAN | ere supervised by th D | ne follow | ing wel | l driller | (s)/rig sup | pervisor(s | s): | |
| e e | Date well plugging began: | 09/30/2022 | | Date | well plu | igging co | ncluded: | 09/30/2022 | |
|) | GPS Well Location: | Latitude: 33 Longitude: -1 | | leg, leg, | 33 13 | min, _ min, _ | 25.88 11.88 | _ sec _ sec, WGS 84 | |
| (' | Depth of well confirmed a by the following manner: | t initiation of plugg Drill Cuttins to 10 fe | ing as: _ et, hydra | 100 ted ben | ft be tonite | low grou | nd level (| (bgl), | |
| o l | Static water level measure | d at initiation of plu | igging: _ | N/ | ft bg | ţl | | | |
| | Date well plugging plan of | f operations was ap | proved by | y the Sta | ate Engi | neer: 0 | 8/29/2022 | 2 | |
|) | Were all plugging activitied differences between the ap- | es consistent with a proved plugging pl | approve an and th | ed plugg ie well a | ging plan is it was | n? plugged | yes (attach a | _ If not, please odditional pages as ne | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Version: September 8, 2009 Page 1 of 2 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

| Depth (ft bgl) (inc | Plugging Material Used lude any additives used) | Volume of <u>Material Placed</u> (gallons) | Theoretical Volume of Borehole/ Casing (gallons) | Placement Method (tremie pipe, other) | Comments ("casing perforated first", "open annular space also plugged", etc.) |
|------------------------|---|--|--|---------------------------------------|--|
| DRIL | L CUTTINGS | N/A | N/A | other) N/A | Annular space also plugged", etc., NO WATER WAS DETECTED, WAS PLUGGED BACK WITH DRILL CUTTINGS WELL WAS NON ARTISAN AND BREACHES ONLY ONE AQUIFAR |
| | | MULTIPLY cubic feet x | BY AND OBTAIN 7.4805 = gallons | | |

III. SIGNATURE:

| | | | | familiar | | | | | | | |
|---|--------|----------|-------|-----------|--------|------|-------|---------|---------|---------|--------|
| Engineer pertaining to the plugging of wells and that | each a | nd all c | f the | e stateme | nts in | this | Plugg | ging Re | cord an | d attac | hments |
| are true to the best of my knowledge and belief. | | | | . , | ^ | | | | | | |

Kussel Sou

Signature of Well Driller

09/02/2022

Date

Version: September 8, 2009 Page 2 of 2



Click to hideNews Bulletins

- ALERT! USGS will be performing an upgrade to their network on Thursday, November 17, 2022, starting at 10:00pm EST.
 During the maintenance period, the Water Data for the Nation web portal and water services will be accessible; however, delivery of the most recent time-series data and WaterAlert notifications will be disrupted. The maintenance period is not expected to exceed 4 hours, after which the backlog of time-series data will be processed and delivered.
- Water Data for the Nation Blog

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

323358103123001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323358103123001 20S.37E.13.32130

Lea County, New Mexico Latitude 32°33'58", Longitude 103°12'30" NAD27 Land-surface elevation 3,544 feet above NAVD88

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

| Table of data |
|--------------------|
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water- level date- time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measu |
|------------|------|------------------------------------|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|----------------------|
| | | | | | | | | | | |
| 1954-04-02 | | D | 62610 | | 3468.48 | NGVD29 | 1 | Z | | |
| 1954-04-02 | | D | 62611 | | 3469.61 | NAVD88 | 1 | Z | | |
| 1954-04-02 | | D | 72019 | 74.39 | | | 1 | Z | | |
| 1961-02-27 | | D | 62610 | | 3467.71 | NGVD29 | 1 | Z | | |
| 1961-02-27 | | D | 62611 | | 3468.84 | NAVD88 | 1 | Z | | |
| 1961-02-27 | | D | 72019 | 75.16 | | | 1 | Z | | |
| 1968-04-08 | | D | 62610 | | 3465.53 | NGVD29 | Р | Z | | |
| 1968-04-08 | | D | 62611 | | 3466.66 | NAVD88 | Р | Z | | |
| 1968-04-08 | | D | 72019 | 77.34 | | | Р | Z | | |
| 1971-01-14 | | D | 62610 | | 3465.75 | NGVD29 | 1 | Z | | |
| 1971-01-14 | | D | 62611 | | 3466.88 | NAVD88 | 1 | Z | | |
| 1971-01-14 | | D | 72019 | 77.12 | | | 1 | Z | | |
| 1976-02-04 | | D | 62610 | | 3464.07 | NGVD29 | 1 | Z | | |
| 1976-02-04 | | D | 62611 | | 3465.20 | NAVD88 | 1 | Z | | |
| 1976-02-04 | | D | 72019 | 78.80 | | | 1 | Z | | |

| Date | Time | ? Water-level date-time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | • |
|------------|------|---|------------------------|---|---|---------------------------------|---|
| | | | | | | | |
| 1981-02-10 | D | 62610 | 3463.20 | NGVD29 | 1 | Z | |
| 1981-02-10 | D | 62611 | 3464.33 | NAVD88 | 1 | Z | |
| 1981-02-10 | D | 72019 | 79.67 | | 1 | Z | |
| 1986-03-27 | D | 62610 | 3462.72 | NGVD29 | 1 | Z | |
| 1986-03-27 | D | 62611 | 3463.85 | NAVD88 | 1 | Z | |
| 1986-03-27 | D | 72019 | 80.15 | | 1 | Z | |
| 1991-02-01 | D | 62610 | 3462.54 | NGVD29 | 1 | Z | |
| 1991-02-01 | D | 62611 | 3463.67 | NAVD88 | 1 | Z | |
| 1991-02-01 | D | 72019 | 80.33 | | 1 | Z | |

Explanation

| Section | Code | Description |
|--------------------------------|--------|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Parameter code | 62610 | Groundwater level above NGVD 1929, feet |
| Parameter code | 62611 | Groundwater level above NAVD 1988, feet |
| Parameter code | 72019 | Depth to water level, feet below land surface |
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| Status | Р | Pumping |
| Method of measurement | Z | Other. |
| Measuring agency | | Not determined |
| Source of measurement | | Not determined |
| Water-level approval status | А | Approved for publication Processing and review completed. |

Questions about sites/data? Feedback on this web site Automated retrievals <u>Help</u> Data Tips Explanation of terms Subscribe for system changes <u>News</u>

Accessibility FOIA Policies and Notices Privacy

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-11-16 13:59:53 EST 0.27 0.23 nadww01





APPENDIX C

Photographic Log

ENSOLUM

Photographic Log Maverick Permian, LLC **SEM 180** NAPP2231544488



Photograph 1

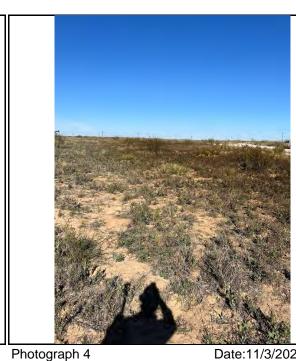
Date:11/3/2022

Description: Northeast view of overspray area



Photograph 2

Description: Southwest view of overspray area



Photograph 3

Description: Southeast view of overspray area

Date:11/3/2022

Date:11/3/2022

Date:11/3/2022

Description: Northeast view of overspray area



APPENDIX D

Laboratory Analytical Reports

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 11/14/2022 12:00:52 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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.



Client: Ensolum
Project/Site: SEMU Permian 180 Flowline
Laboratory Job ID: 890-3392-1
SDG: Lea County NM

Table of Contents

| Cover Page | 1 |
|------------------------|----|
| Table of Contents | 2 |
| Definitions/Glossary | 3 |
| Case Narrative | 4 |
| Client Sample Results | 5 |
| Surrogate Summary | 12 |
| QC Sample Results | 13 |
| QC Association Summary | 17 |
| Lab Chronicle | 20 |
| Certification Summary | 23 |
| Method Summary | 24 |
| Sample Summary | 25 |
| Chain of Custody | 26 |
| Receipt Checklists | 28 |

| | 0 | |
|--|---|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Definitions/Glossary

Job ID: 890-3392-1 Client: Ensolum Project/Site: SEMU Permian 180 Flowline

SDG: Lea County NM

Qualifiers

GC VOA Qualifier

Qualifier Description S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: SEMU Permian 180 Flowline

Job ID: 890-3392-1

SDG: Lea County NM

Job ID: 890-3392-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3392-1

Receipt

The samples were received on 11/4/2022 1:10 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 3.8°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-39022 and analytical batch 880-39343 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-39138 and analytical batch 880-39343 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-38976 and analytical batch 880-39058 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS05 (890-3392-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SS07 (890-3392-7). 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

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

Lab Sample ID: 890-3392-1

11/08/22 10:47

Prepared

D

11/09/22 16:35

Analyzed

Dil Fac

Matrix: Solid

Client: Ensolum Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Client Sample ID: SS01

Date Collected: 11/03/22 13:45 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| | | 0 1:0 | | | _ | | | B.: E |
|---|--|--|---------------------------------|-------------------------------|----------|--|---|--------------|
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00201 | | 0.00201 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:50 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:50 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:50 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:50 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:50 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 83 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 08:50 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 08:50 | 1 |
| Method: TAL SOP Total BTEX - T Analyte | | Culation Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/14/22 12:31 | 1 |
| Total BTEX Method: SW846 8015 NM - Diese | | | | mg/Kg | | | 11/14/22 12:31 | 1 |
| - - | I Range Organ | | | mg/Kg Unit | D | Prepared | 11/14/22 12:31 Analyzed | 1 Dil Fac |
| Thethod: SW846 8015 NM - Diese | I Range Organ | ics (DRO) (| GC) | | <u>D</u> | Prepared | | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH | Range Organ Result <50.0 | ics (DRO) ((Qualifier | GC) RL 50.0 | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies | I Range Organ Result <50.0 sel Range Organ | ics (DRO) ((Qualifier | GC) RL 50.0 | Unit | <u>D</u> | Prepared Prepared | Analyzed | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte | I Range Organ Result <50.0 sel Range Organ | Qualifier Unics (DRO) Qualifier | GC) RL 50.0 | Unit mg/Kg | | | Analyzed 11/10/22 10:55 | 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte | I Range Organ Result <50.0 sel Range Orga Result | Qualifier Unics (DRO) Qualifier | GC) RL 50.0 (GC) RL | Unit mg/Kg | | Prepared | Analyzed 11/10/22 10:55 Analyzed | 1 Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics | I Range Organ Result <50.0 sel Range Orga Result | ics (DRO) ((Qualifier U nnics (DRO) Qualifier U | GC) RL 50.0 (GC) RL | Unit mg/Kg | | Prepared | Analyzed 11/10/22 10:55 Analyzed | 1 Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | I Range Organ Result <50.0 sel Range Orga Result <50.0 | ics (DRO) ((Qualifier U nnics (DRO) Qualifier U | GC) RL 50.0 (GC) RL 50.0 | Unit mg/Kg Unit mg/Kg | | Prepared 11/08/22 10:47 | Analyzed 11/10/22 10:55 Analyzed 11/09/22 16:35 | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 | I Range Organ Result <50.0 sel Range Orga Result <50.0 | ics (DRO) ((Qualifier U nnics (DRO) Qualifier U | GC) RL 50.0 (GC) RL 50.0 | Unit mg/Kg Unit mg/Kg | | Prepared 11/08/22 10:47 | Analyzed 11/10/22 10:55 Analyzed 11/09/22 16:35 | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 | ics (DRO) ((Qualifier U unics (DRO) Qualifier U U | GC) RL 50.0 (GC) RL 50.0 50.0 | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/08/22 10:47 11/08/22 10:47 | Analyzed 11/10/22 10:55 Analyzed 11/09/22 16:35 11/09/22 16:35 | Dil Fac |

4.96 11/11/22 10:44 Chloride 120 mg/Kg **Client Sample ID: SS02** Lab Sample ID: 890-3392-2

RL

Unit

70 - 130

103

Result Qualifier

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 11/03/22 13:50 Date Received: 11/04/22 13:10

Sample Depth: 0.5

o-Terphenyl

Analyte

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:16 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:16 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:16 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:16 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:16 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 09:16 | |

Lab Sample ID: 890-3392-2

Job ID: 890-3392-1

Client: Ensolum Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Client Sample ID: SS02

Date Collected: 11/03/22 13:50 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Method: SW846 8021B - Volat | le Organic Compounds (GC) (Continued) |
|-----------------------------|---------------------------------------|
|-----------------------------|---------------------------------------|

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | 11/09/22 15:29 | 11/12/22 09:16 | 1 |

| Method: TAL SOP | Total RTFX - Total | RTFX Calculation |
|--------------------|--------------------|------------------|
| Mictiliou. IAL OOI | TOTAL DIEX - TOTAL | DIEA Galcalation |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00398 | U | 0.00398 | mg/Kg | | | 11/14/22 12:31 | 1 |

| н | | | | | |
|---|--------------------------------|----------------|------------|-------|------|
| ı | Method: SW846 8015 NM - | Diocal Bango (| Pragnice / | (DDO) | (CC) |
| П | INICITION. 344040 OUTS ININI - | Diesei Kalige | Jiyailics | וטאט | 1001 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/10/22 10:55 | 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 | | 11/08/22 10:47 | 11/09/22 16:57 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/08/22 10:47 | 11/09/22 16:57 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/08/22 10:47 | 11/09/22 16:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 77 | 70 - 130 | 11/08/22 10:47 | 11/09/22 16:57 | 1 |
| o-Terphenyl | 83 | 70 - 130 | 11/08/22 10:47 | 11/09/22 16:57 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Qualifie | | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | 17.2 | 5.01 | mg/Kg | | | 11/11/22 10:51 | 1 |

Client Sample ID: SS03 Lab Sample ID: 890-3392-3

Date Collected: 11/03/22 13:55 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| ı | Method: SW846 8021B | Valatila Ossasia | O = (OO) |
|---|---------------------|------------------|----------|
| | | | |
| | | | |

| Welliou. Stroto ouz ID - Volati | le Organic Comp | | , | | | | | |
|---------------------------------|-----------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:43 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:43 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:43 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:43 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:43 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/22 15:29 | 11/12/22 09:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 09:43 | 1 |
| 1 4-Difluorobenzene (Surr) | 104 | | 70 130 | | | 11/09/22 15:29 | 11/12/22 09:43 | 1 |

| Mothod: TAI | SOP Total RTFY | - Total RTFY | Calculation |
|-------------|----------------|--------------|-------------|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00399 | U | 0.00399 | mg/Kg | | | 11/14/22 12:31 | 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 | | | 11/10/22 10:55 | 1 |

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-3392-3

11/11/22 11:13

Matrix: Solid

Job ID: 890-3392-1

Client: Ensolum Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Client Sample ID: SS03

Date Collected: 11/03/22 13:55 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 11/08/22 10:47 | 11/09/22 17:19 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 11/08/22 10:47 | 11/09/22 17:19 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/08/22 10:47 | 11/09/22 17:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 88 | | 70 - 130 | | | 11/08/22 10:47 | 11/09/22 17:19 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | | | 11/08/22 10:47 | 11/09/22 17:19 | 1 |
| | | | | | | | | |
| Method: MCAWW 300.0 - Anions | , ion Chromato | grapny - So | oluble | | | | | |
| Analyte | D 14 | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

Client Sample ID: SS04 Lab Sample ID: 890-3392-4

56.8

4.98

mg/Kg

Date Collected: 11/03/22 14:00 Date Received: 11/04/22 13:10

Sample Depth: 0.5

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:09 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:09 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:09 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:09 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:09 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 10:09 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 10:09 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/14/22 12:31 | 1 |
| Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 11/10/22 10:55 | 1 |
| Method: SW846 8015B NM - Dies | el Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 11/08/22 10:47 | 11/09/22 17:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 11/08/22 10:47 | 11/09/22 17:41 | 1 |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 11/08/22 10:47 | 11/09/22 17:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 88 | | 70 - 130 | | | 11/08/22 10:47 | 11/09/22 17:41 | 1 |
| | | | | | | | 11/09/22 17:41 | |

Client Sample Results

Client: Ensolum Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Client Sample ID: SS04 Lab Sample ID: 890-3392-4

Date Collected: 11/03/22 14:00 Matrix: Solid Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | 15.2 | | 4.99 | mg/Kg | | | 11/11/22 11:20 | 1 |

Client Sample ID: SS05 Lab Sample ID: 890-3392-5 **Matrix: Solid**

Date Collected: 11/03/22 14:05 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:36 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:36 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:36 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:36 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:36 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 10:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 10:36 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 10:36 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|-------------|-------------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/14/22 12:31 | 1 |
| - | | | | | | | | |
| Method: SW846 8015 NM - Diesel | Range Organ | ics (DRO) (| GC) | | | | | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/10/22 10:55 | 1 |
| | | | | | | | | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 10:47 | 11/09/22 18:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 10:47 | 11/09/22 18:03 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 10:47 | 11/09/22 18:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 64 | S1- | 70 - 130 | | | 11/08/22 10:47 | 11/09/22 18:03 | 1 |
| o-Terphenyl | 68 | S1- | 70 - 130 | | | 11/08/22 10:47 | 11/09/22 18:03 | 1 |

| Method: MCAWW 300.0 - Anions, I | on Chromatog | graphy - So | luble | | | | | |
|---------------------------------|--------------|-------------|-------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 44.1 | | 4.95 | mg/Kg | | | 11/11/22 11:27 | 1 |

Client Sample Results

Client: Ensolum Job ID: 890-3392-1
Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Client Sample ID: SS06 Lab Sample ID: 890-3392-6

Date Collected: 11/03/22 14:10
Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|---|--|---------------------------|----------|--|---|---------------------------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:02 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:02 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:02 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:02 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:02 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 11:02 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 11:02 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/14/22 12:31 | 1 |
| Method: SW846 8015 NM - Diese | • | | • | | _ | | | |
| | • | ics (DRO) (Qualifier | GC) | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte | • | Qualifier | • | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 11/10/22 10:55 | Dil Fac |
| Analyte Total TPH | | Qualifier U | RL 49.9 | | <u>D</u> | Prepared | | |
| Analyte | Result <49.9 | Qualifier U | RL 49.9 | | D_ | Prepared Prepared | | 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics | Result <49.9 | Qualifier Unics (DRO) Qualifier | RL 49.9 (GC) | mg/Kg | | | 11/10/22 10:55 | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <49.9 sel Range Orga Result | Qualifier U nics (DRO) Qualifier U | RL 49.9 (GC) | mg/Kg | | Prepared | 11/10/22 10:55 Analyzed | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <49.9 sel Range Orga Result <49.9 <49.9 | Qualifier U nics (DRO) Qualifier U | RL 49.9 (GC) RL 49.9 49.9 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/08/22 10:47 11/08/22 10:47 | 11/10/22 10:55 Analyzed 11/09/22 18:25 11/09/22 18:25 | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <49.9 sel Range Orga Result <49.9 | Qualifier U nics (DRO) Qualifier U | RL 49.9 (GC) RL 49.9 | mg/Kg Unit mg/Kg | | Prepared 11/08/22 10:47 | 11/10/22 10:55 Analyzed 11/09/22 18:25 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | Result | Qualifier U nics (DRO) Qualifier U | RL 49.9 (GC) RL 49.9 49.9 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/08/22 10:47 11/08/22 10:47 11/08/22 10:47 Prepared | Analyzed 11/10/22 10:55 Analyzed 11/09/22 18:25 11/09/22 18:25 Analyzed | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result | Qualifier U nics (DRO) Qualifier U U | RL 49.9 (GC) RL 49.9 49.9 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/08/22 10:47 11/08/22 10:47 11/08/22 10:47 | Analyzed 11/09/22 18:25 11/09/22 18:25 11/09/22 18:25 | Dil Fac 1 1 Dil Fac Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | Result | Qualifier U nics (DRO) Qualifier U U | RL 49.9 (GC) RL 49.9 49.9 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/08/22 10:47 11/08/22 10:47 11/08/22 10:47 Prepared | Analyzed 11/10/22 10:55 Analyzed 11/09/22 18:25 11/09/22 18:25 Analyzed | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | Result <49.9 | Qualifier U nics (DRO) Qualifier U U Qualifier | RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/08/22 10:47 11/08/22 10:47 11/08/22 10:47 Prepared 11/08/22 10:47 | Analyzed 11/09/22 18:25 11/09/22 18:25 11/09/22 18:25 Analyzed 11/09/22 18:25 | 1 Dil Fac 1 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | Result | Qualifier U nics (DRO) Qualifier U U Qualifier | RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/08/22 10:47 11/08/22 10:47 11/08/22 10:47 Prepared 11/08/22 10:47 | Analyzed 11/09/22 18:25 11/09/22 18:25 11/09/22 18:25 Analyzed 11/09/22 18:25 | 1 1 1 Dil Fac 1 |

Client Sample ID: SS07 Lab Sample ID: 890-3392-7

Date Collected: 11/03/22 14:15 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:28 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:28 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:28 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:28 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:28 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 11:28 | 1 |

Eurofins Carlsbad

Matrix: Solid

2

3

5

7

10

12

13

14

1/1/1/2022

Job ID: 890-3392-1

Client: Ensolum Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Client Sample ID: SS07 Lab Sample ID: 890-3392-7

Date Collected: 11/03/22 14:15 Matrix: Solid Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Method: SW846 8021B - Ve | /olatile Organic Compounds | (GC) (Continued) |
|--------------------------|----------------------------|------------------|
|--------------------------|----------------------------|------------------|

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|---------------------|--------|----------------|----------------|---------|
| 1 4-Difluorobenzene (Surr) | 98 | 70 130 | 11/09/22 15:29 | 11/12/22 11:28 | |

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 | ma/Ka | | | 11/14/22 12:31 | 1 |

| Mathada CMO4C CO4E NM Disaal Dawns Comenica (DDC) (C | ~ \ |
|--|------------|
| Method: SW846 8015 NM - Diesel Range Organics (DRO) (G | |
| | |

| Analyte | Result (| Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----------|-----------|------|-------|---|--------------|----------------|---------|
| Total TPH | <49.9 l | U | 49.9 | ma/Ka | | | 11/10/22 10:55 | 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 | | 11/08/22 10:47 | 11/09/22 18:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/08/22 10:47 | 11/09/22 18:47 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/08/22 10:47 | 11/09/22 18:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|---------------|------------------|---------|
| 1-Chlorooctane | 66 | S1- | 70 - 130 | 11/08/22 10:4 | 7 11/09/22 18:47 | 1 |
| o-Terphenyl | 71 | | 70 - 130 | 11/08/22 10:4 | 7 11/09/22 18:47 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 17.5 | | 4.95 | mg/Kg | | | 11/11/22 11:41 | 1 |

Client Sample ID: SS08 Lab Sample ID: 890-3392-8

Date Collected: 11/03/22 14:20 Date Received: 11/04/22 13:10

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 | | 11/09/22 15:29 | 11/12/22 11:54 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:54 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:54 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:54 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:54 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/09/22 15:29 | 11/12/22 11:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 11:54 | |

| Surrogate | %Recovery | Quaimer | Limits | Prepared | Anaryzea | DII Fac |
|-----------------------------|-----------|---------|----------|---------------|------------------|---------|
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | 11/09/22 15:2 | | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | 11/09/22 15:2 | 9 11/12/22 11:54 | 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 | ma/Ka | | | 11/14/22 12:31 | 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 | | | 11/10/22 10:55 | 1 |

Eurofins Carlsbad

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Client Samı

Date Collected: 11/03/2 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| nple ID: SS08 | Lab Sample ID: 890-3392-8 |
|--------------------|---------------------------|
| ed: 11/03/22 14:20 | Matrix: Solid |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 10:47 | 11/09/22 19:09 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 10:47 | 11/09/22 19:09 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 10:47 | 11/09/22 19:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 78 | | 70 - 130 | | | 11/08/22 10:47 | 11/09/22 19:09 | 1 |
| o-Terphenyl | 81 | | 70 - 130 | | | 11/08/22 10:47 | 11/09/22 19:09 | 1 |
| - Method: MCAWW 300.0 - Anions | , Ion Chromato | ography - S | oluble | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 16.2 | • | 5.00 | mg/Kg | | | 11/11/22 11:48 | |

Surrogate Summary

Client: Ensolum Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limi |
|-----------------------|------------------------|----------|----------|---|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3392-1 | SS01 | 83 | 101 | |
| 890-3392-1 MS | SS01 | 95 | 111 | |
| 890-3392-1 MSD | SS01 | 89 | 115 | |
| 390-3392-2 | SS02 | 100 | 103 | |
| 890-3392-3 | SS03 | 90 | 104 | |
| 890-3392-4 | SS04 | 95 | 98 | |
| 890-3392-5 | SS05 | 90 | 109 | |
| 890-3392-6 | SS06 | 91 | 104 | |
| 890-3392-7 | SS07 | 82 | 98 | |
| 390-3392-8 | SS08 | 96 | 105 | |
| LCS 880-39138/1-A | Lab Control Sample | 93 | 112 | |
| LCSD 880-39138/2-A | Lab Control Sample Dup | 108 | 112 | |
| MB 880-39022/5-A | Method Blank | 60 S1- | 99 | |
| MB 880-39138/5-A | Method Blank | 59 S1- | 99 | |
| Surrogate Legend | | | | |
| BFB = 4-Bromofluorobe | nzene (Surr) | | | |

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3385-A-1-C MS | Matrix Spike | 77 | 77 | |
| 890-3385-A-1-D MSD | Matrix Spike Duplicate | 71 | 70 | |
| 890-3392-1 | SS01 | 95 | 103 | |
| 890-3392-2 | SS02 | 77 | 83 | |
| 890-3392-3 | SS03 | 88 | 92 | |
| 890-3392-4 | SS04 | 88 | 91 | |
| 890-3392-5 | SS05 | 64 S1- | 68 S1- | |
| 890-3392-6 | SS06 | 71 | 78 | |
| 890-3392-7 | SS07 | 66 S1- | 71 | |
| 890-3392-8 | SS08 | 78 | 81 | |
| LCS 880-38976/2-A | Lab Control Sample | 83 | 98 | |
| LCSD 880-38976/3-A | Lab Control Sample Dup | 88 | 104 | |
| MB 880-38976/1-A | Method Blank | 117 | 135 S1+ | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39022/5-A

Matrix: Solid

Analysis Batch: 39343

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39022

| | MB | MB | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 60 | S1- | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

Prepared Dil Fac Analyzed 11/08/22 15:10 11/11/22 18:42 11/08/22 15:10 11/11/22 18:42

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39138

Analysis Batch: 39343

Matrix: Solid

Lab Sample ID: MB 880-39138/5-A

мв мв

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:23 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:23 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/09/22 15:29 | 11/12/22 08:23 | 1 |
| | | | | | | | | |

мв мв

| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|---|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 59 | S1- | 70 - 130 | | 11/09/22 15:29 | 11/12/22 08:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | : | 11/09/22 15:29 | 11/12/22 08:23 | 1 |

Lab Sample ID: LCS 880-39138/1-A

Matrix: Solid

Analysis Batch: 39343

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 39138

| | Spike | LCS | LCS | | %Rec | |
|---------------------|-------|---------|----------------|--------|----------|--|
| Analyte | Added | Result | Qualifier Unit | D %Rec | Limits | |
| Benzene | 0.100 | 0.09491 | mg/Kg | 95 | 70 - 130 | |
| Toluene | 0.100 | 0.09455 | mg/Kg | 95 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08730 | mg/Kg | 87 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1927 | mg/Kg | 96 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09563 | mg/Kg | 96 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery C | Qualifier | Limits |
|-----------------------------|-------------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 |

Lab Sample ID: LCSD 880-39138/2-A

Matrix: Solid

Analysis Batch: 39343

| Client Sample ID | : Lab Control Sample Dup |
|------------------|--------------------------|
| | Duny Towns Total/NIA |

Prep Type: Total/NA

Prep Batch: 39138

| | Spike | LCSD LCSD | | | | %Rec | | RPD |
|---------|-------|------------------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.08952 | mg/Kg | | 90 | 70 - 130 | 6 | 35 |

QC Sample Results

Client: Ensolum Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

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

Lab Sample ID: LCSD 880-39138/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Prep Batch: 39138

Analysis Batch: 39343

| - | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Toluene | 0.100 | 0.09075 | | mg/Kg | | 91 | 70 - 130 | 4 | 35 |
| Ethylbenzene | 0.100 | 0.08974 | | mg/Kg | | 90 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2057 | | mg/Kg | | 103 | 70 - 130 | 7 | 35 |
| o-Xylene | 0.100 | 0.1104 | | mg/Kg | | 110 | 70 - 130 | 14 | 35 |

LCSD LCSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 108 1,4-Difluorobenzene (Surr) 112 70 - 130

Lab Sample ID: 890-3392-1 MS **Client Sample ID: SS01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 39343 Prep Batch: 39138

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00201 | U | 0.100 | 0.08927 | | mg/Kg | | 89 | 70 - 130 | |
| Toluene | <0.00201 | U | 0.100 | 0.08382 | | mg/Kg | | 83 | 70 - 130 | |
| Ethylbenzene | <0.00201 | U | 0.100 | 0.07488 | | mg/Kg | | 75 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00402 | U | 0.201 | 0.1635 | | mg/Kg | | 81 | 70 - 130 | |
| o-Xylene | <0.00201 | U | 0.100 | 0.08493 | | mg/Kg | | 85 | 70 - 130 | |

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 95 1,4-Difluorobenzene (Surr) 111 70 - 130

Lab Sample ID: 890-3392-1 MSD Client Sample ID: SS01 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 39343 Prep Batch: 39138

| i many ord Editorni doc re | | | | | | | | | | | |
|----------------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00201 | U | 0.0990 | 0.07916 | | mg/Kg | | 80 | 70 - 130 | 12 | 35 |
| Toluene | <0.00201 | U | 0.0990 | 0.07843 | | mg/Kg | | 79 | 70 - 130 | 7 | 35 |
| Ethylbenzene | <0.00201 | U | 0.0990 | 0.07188 | | mg/Kg | | 73 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.198 | 0.1570 | | mg/Kg | | 79 | 70 - 130 | 4 | 35 |
| o-Xylene | <0.00201 | U | 0.0990 | 0.08045 | | mg/Kg | | 81 | 70 - 130 | 5 | 35 |
| | | | | | | | | | | | |

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 89 115 1,4-Difluorobenzene (Surr)

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

Lab Sample ID: MB 880-38976/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 39058 Prep Batch: 38976 мв мв

Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/08/22 10:47 11/09/22 08:44 (GRO)-C6-C10

Client: Ensolum Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

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

Lab Sample ID: MB 880-38976/1-A **Matrix: Solid**

Analysis Batch: 39058

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 38976

| Analyte | Result Q | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over | <50.0 U | J | 50.0 | mg/Kg | | 11/08/22 10:47 | 11/09/22 08:44 | 1 |
| C10-C28) | | | | | | | | |
| OII Range Organics (Over C28-C36) | <50.0 U | J | 50.0 | mg/Kg | | 11/08/22 10:47 | 11/09/22 08:44 | 1 |

MB MB

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117 | | 70 - 130 | 11/08/22 10:47 | 11/09/22 08:44 | 1 |
| o-Terphenyl | 135 | S1+ | 70 - 130 | 11/08/22 10:47 | 11/09/22 08:44 | 1 |

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-38976/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 39058 Prep Batch: 38976

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 846.2 85 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 841.5 mg/Kg 84 70 - 130 C10-C28)

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 83 | | 70 - 130 |
| o-Terphenyl | 98 | | 70 - 130 |

Lab Sample ID: LCSD 880-38976/3-A

Matrix: Solid Analysis Batch: 39058 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 38976

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics | 1000 | 900.9 | | mg/Kg | | 90 | 70 - 130 | 6 | 20 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 892.6 | | mg/Kg | | 89 | 70 - 130 | 6 | 20 | |
| C10-C28) | | | | | | | | | | |

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 88 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: 890-3385-A-1-C MS

Matrix: Solid

Analysis Batch: 39058

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 38976

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 997 | 1010 | | mg/Kg | | 101 | 70 - 130 | |
| Diesel Range Organics (Over | <50.0 | U | 997 | 918.8 | | mg/Kg | | 92 | 70 - 130 | |

C10-C28)

| | IVIS | IVIS | | | |
|----------------|-----------|-----------|----------|--|--|
| Surrogate | %Recovery | Qualifier | Limits | | |
| 1-Chlorooctane | 77 | | 70 - 130 | | |
| o-Terphenyl | 77 | | 70 - 130 | | |

Job ID: 890-3392-1 Client: Ensolum Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

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

Lab Sample ID: 890-3385-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 39058

| Prep Type: | Total/NA |
|------------|----------|
| Prep Bato | h: 38976 |
| %Rec | RPD |

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 999 | 963.2 | | mg/Kg | | 96 | 70 - 130 | 5 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 999 | 854.2 | | mg/Kg | | 86 | 70 - 130 | 7 | 20 |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 71 | | 70 - 130 |
| o-Terphenyl | 70 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38850/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39147

мв мв

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/11/22 09:47 | 1 |

Lab Sample ID: LCS 880-38850/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 39147

| | Spike | LCS | LCS | | | | %Rec | |
|----------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 262.1 | - | mg/Kg | | 105 | 90 - 110 | |

Lab Sample ID: LCSD 880-38850/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39147

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 257.1 | | mg/Kg | | 103 | 90 - 110 | 2 | 20 | |

Lab Sample ID: 890-3392-8 MS **Client Sample ID: SS08 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39147

| | Sample | Sample | Spike | MS | MS | | | | %Rec | | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|--------|--|---|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | 16.2 | | 250 | 286.8 | | ma/Ka | | 108 | 90 110 | | _ |

Lab Sample ID: 890-3392-8 MSD **Client Sample ID: SS08 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39147

| Analysis Batch. 00 141 | | | | | | | | | | | | |
|------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 16.2 | | 250 | 282.5 | | ma/Ka | | 107 | 90 - 110 | 2 | 20 | |

Client: Ensolum

Project/Site: SEMU Permian 180 Flowline

Job ID: 890-3392-1 SDG: Lea County NM

GC VOA

Prep Batch: 39022

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-39022/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 39138

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3392-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-3392-2 | SS02 | Total/NA | Solid | 5035 | |
| 890-3392-3 | SS03 | Total/NA | Solid | 5035 | |
| 890-3392-4 | SS04 | Total/NA | Solid | 5035 | |
| 890-3392-5 | SS05 | Total/NA | Solid | 5035 | |
| 890-3392-6 | SS06 | Total/NA | Solid | 5035 | |
| 890-3392-7 | SS07 | Total/NA | Solid | 5035 | |
| 890-3392-8 | SS08 | Total/NA | Solid | 5035 | |
| MB 880-39138/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-39138/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-39138/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3392-1 MS | SS01 | Total/NA | Solid | 5035 | |
| 890-3392-1 MSD | SS01 | Total/NA | Solid | 5035 | |

Analysis Batch: 39343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3392-1 | SS01 | Total/NA | Solid | 8021B | 39138 |
| 890-3392-2 | SS02 | Total/NA | Solid | 8021B | 39138 |
| 890-3392-3 | SS03 | Total/NA | Solid | 8021B | 39138 |
| 890-3392-4 | SS04 | Total/NA | Solid | 8021B | 39138 |
| 890-3392-5 | SS05 | Total/NA | Solid | 8021B | 39138 |
| 890-3392-6 | SS06 | Total/NA | Solid | 8021B | 39138 |
| 890-3392-7 | SS07 | Total/NA | Solid | 8021B | 39138 |
| 890-3392-8 | SS08 | Total/NA | Solid | 8021B | 39138 |
| MB 880-39022/5-A | Method Blank | Total/NA | Solid | 8021B | 39022 |
| MB 880-39138/5-A | Method Blank | Total/NA | Solid | 8021B | 39138 |
| LCS 880-39138/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 39138 |
| LCSD 880-39138/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 39138 |
| 890-3392-1 MS | SS01 | Total/NA | Solid | 8021B | 39138 |
| 890-3392-1 MSD | SS01 | Total/NA | Solid | 8021B | 39138 |

Analysis Batch: 39478

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3392-1 | SS01 | Total/NA | Solid | Total BTEX | |
| 390-3392-2 | SS02 | Total/NA | Solid | Total BTEX | |
| 390-3392-3 | SS03 | Total/NA | Solid | Total BTEX | |
| 90-3392-4 | SS04 | Total/NA | Solid | Total BTEX | |
| 90-3392-5 | SS05 | Total/NA | Solid | Total BTEX | |
| 90-3392-6 | SS06 | Total/NA | Solid | Total BTEX | |
| 90-3392-7 | SS07 | Total/NA | Solid | Total BTEX | |
| 390-3392-8 | SS08 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 38976

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-3392-1 | SS01 | Total/NA | Solid | 8015NM Prep | |

Eurofins Carlsbad

9

3

4

6

8

9

11

1 2

14

Client: Ensolum Project/Site: SEMU Permian 180 Flowline Job ID: 890-3392-1

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 38976 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3392-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-3392-3 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-3392-4 | SS04 | Total/NA | Solid | 8015NM Prep | |
| 890-3392-5 | SS05 | Total/NA | Solid | 8015NM Prep | |
| 890-3392-6 | SS06 | Total/NA | Solid | 8015NM Prep | |
| 890-3392-7 | SS07 | Total/NA | Solid | 8015NM Prep | |
| 890-3392-8 | SS08 | Total/NA | Solid | 8015NM Prep | |
| MB 880-38976/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-38976/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-38976/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3385-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3385-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 39058

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3392-1 | SS01 | Total/NA | Solid | 8015B NM | 38976 |
| 890-3392-2 | SS02 | Total/NA | Solid | 8015B NM | 38976 |
| 890-3392-3 | SS03 | Total/NA | Solid | 8015B NM | 38976 |
| 890-3392-4 | SS04 | Total/NA | Solid | 8015B NM | 38976 |
| 890-3392-5 | SS05 | Total/NA | Solid | 8015B NM | 38976 |
| 890-3392-6 | SS06 | Total/NA | Solid | 8015B NM | 38976 |
| 890-3392-7 | SS07 | Total/NA | Solid | 8015B NM | 38976 |
| 890-3392-8 | SS08 | Total/NA | Solid | 8015B NM | 38976 |
| MB 880-38976/1-A | Method Blank | Total/NA | Solid | 8015B NM | 38976 |
| LCS 880-38976/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 38976 |
| LCSD 880-38976/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 38976 |
| 890-3385-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 38976 |
| 890-3385-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 38976 |

Analysis Batch: 39212

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3392-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-3392-2 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-3392-3 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-3392-4 | SS04 | Total/NA | Solid | 8015 NM | |
| 890-3392-5 | SS05 | Total/NA | Solid | 8015 NM | |
| 890-3392-6 | SS06 | Total/NA | Solid | 8015 NM | |
| 890-3392-7 | SS07 | Total/NA | Solid | 8015 NM | |
| 890-3392-8 | SS08 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 38850

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-3392-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-3392-2 | SS02 | Soluble | Solid | DI Leach | |
| 890-3392-3 | SS03 | Soluble | Solid | DI Leach | |
| 890-3392-4 | SS04 | Soluble | Solid | DI Leach | |
| 890-3392-5 | SS05 | Soluble | Solid | DI Leach | |
| 890-3392-6 | SS06 | Soluble | Solid | DI Leach | |
| 890-3392-7 | SS07 | Soluble | Solid | DI Leach | |

Client: Ensolum

Project/Site: SEMU Permian 180 Flowline

Job ID: 890-3392-1 SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 38850 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3392-8 | SS08 | Soluble | Solid | DI Leach | |
| MB 880-38850/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-38850/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-38850/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3392-8 MS | SS08 | Soluble | Solid | DI Leach | |
| 890-3392-8 MSD | SS08 | Soluble | Solid | DI Leach | |

Analysis Batch: 39147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3392-1 | SS01 | Soluble | Solid | 300.0 | 38850 |
| 890-3392-2 | SS02 | Soluble | Solid | 300.0 | 38850 |
| 890-3392-3 | SS03 | Soluble | Solid | 300.0 | 38850 |
| 890-3392-4 | SS04 | Soluble | Solid | 300.0 | 38850 |
| 890-3392-5 | SS05 | Soluble | Solid | 300.0 | 38850 |
| 890-3392-6 | SS06 | Soluble | Solid | 300.0 | 38850 |
| 890-3392-7 | SS07 | Soluble | Solid | 300.0 | 38850 |
| 890-3392-8 | SS08 | Soluble | Solid | 300.0 | 38850 |
| MB 880-38850/1-A | Method Blank | Soluble | Solid | 300.0 | 38850 |
| LCS 880-38850/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 38850 |
| LCSD 880-38850/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 38850 |
| 890-3392-8 MS | SS08 | Soluble | Solid | 300.0 | 38850 |
| 890-3392-8 MSD | SS08 | Soluble | Solid | 300.0 | 38850 |

Eurofins Carlsbad

3

4

6

8

10

11

13

14

Project/Site: SEMU Permian 180 Flowline

Client Sample ID: SS01

Date Collected: 11/03/22 13:45

Date Received: 11/04/22 13:10

Client: Ensolum

SDG: Lea County NM

Lab Sample ID: 890-3392-3

Lab Sample ID: 890-3392-4

Matrix: Solid

Lab Sample ID: 890-3392-1 Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 08:50 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39478 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39212 | 11/10/22 10:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 38976 | 11/08/22 10:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39058 | 11/09/22 16:35 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 10:44 | CH | EET MID |

Client Sample ID: SS02

Date Received: 11/04/22 13:10

Lab Sample ID: 890-3392-2 Date Collected: 11/03/22 13:50 Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 09:16 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39478 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39212 | 11/10/22 10:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 38976 | 11/08/22 10:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39058 | 11/09/22 16:57 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 10:51 | CH | EET MID |

Client Sample ID: SS03

Date Collected: 11/03/22 13:55 Date Received: 11/04/22 13:10

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 09:43 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39478 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39212 | 11/10/22 10:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 38976 | 11/08/22 10:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39058 | 11/09/22 17:19 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 11:13 | CH | EET MID |

Client Sample ID: SS04

Date Collected: 11/03/22 14:00 Date Received: 11/04/22 13:10

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 10:09 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39478 | 11/14/22 12:31 | SM | EET MID |

Eurofins Carlsbad

Matrix: Solid

Project/Site: SEMU Permian 180 Flowline

SDG: Lea County NM

Lab Sample ID: 890-3392-4

Matrix: Solid

Matrix: Solid

Client Sample ID: SS04

Client: Ensolum

Date Collected: 11/03/22 14:00 Date Received: 11/04/22 13:10

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39212 | 11/10/22 10:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 38976 | 11/08/22 10:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39058 | 11/09/22 17:41 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 11:20 | CH | EET MID |

Client Sample ID: SS05 Lab Sample ID: 890-3392-5

Date Collected: 11/03/22 14:05 Date Received: 11/04/22 13:10

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 10:36 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39478 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39212 | 11/10/22 10:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 38976 | 11/08/22 10:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39058 | 11/09/22 18:03 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 11:27 | CH | EET MID |

Client Sample ID: SS06 Lab Sample ID: 890-3392-6 Date Collected: 11/03/22 14:10 **Matrix: Solid**

Date Received: 11/04/22 13:10

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 11:02 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39478 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39212 | 11/10/22 10:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 38976 | 11/08/22 10:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39058 | 11/09/22 18:25 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 11:34 | CH | EET MID |

Client Sample ID: SS07 Lab Sample ID: 890-3392-7

Date Collected: 11/03/22 14:15 Date Received: 11/04/22 13:10

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|-------------------------|-----|--------|-----------------|---------------|----------------|----------------------------------|----------|--------------------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 11:28 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39478 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39212 | 11/10/22 10:55 | SM | EET MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.03 g 1 uL | 10 mL 1 uL | 38976 39058 | 11/08/22 10:47 11/09/22 18:47 | DM SM | EET MID EET MID |

Eurofins Carlsbad

Released to Imaging: 1/9/2023 12:55:30 PM

Matrix: Solid

Client: Ensolum

Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Client Sample ID: SS07 Lab Sample ID: 890-3392-7

Date Collected: 11/03/22 14:15 Matrix: Solid

Date Received: 11/04/22 13:10

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 11:41 | CH | EET MID |

Client Sample ID: SS08 Lab Sample ID: 890-3392-8

Date Collected: 11/03/22 14:20 **Matrix: Solid**

Date Received: 11/04/22 13:10

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 11:54 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39478 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39212 | 11/10/22 10:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 38976 | 11/08/22 10:47 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 39058 | 11/09/22 19:09 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 11:48 | 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 Job ID: 890-3392-1 Project/Site: SEMU Permian 180 Flowline SDG: Lea County NM

Laboratory: Eurofins Midland

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

| Authority | Pr | ogram | Identification Number | Expiration Date |
|---|----------------------------------|-----------------------------------|---|-------------------------|
| Texas | NE | ELAP | T104704400-22-24 | 06-30-23 |
| The following analytes | are included in this report, bu | it the laboratory is not certific | ed by the governing authority. This list ma | av include analytes for |
| the agency does not of | fer certification. | • | , , , | ·, ····· |
| the agency does not of Analysis Method | fer certification . Prep Method | Matrix | Analyte | , |
| 0 , | | Matrix Solid | , , , | |

Method Summary

Client: Ensolum

Project/Site: SEMU Permian 180 Flowline

Job ID: 890-3392-1

SDG: Lea County NM

a County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

2

5

b

8

_

11

. .

14

Sample Summary

Client: Ensolum

Project/Site: SEMU Permian 180 Flowline

Job ID: 890-3392-1

SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3392-1 | SS01 | Solid | 11/03/22 13:45 | 11/04/22 13:10 | 0.5 |
| 890-3392-2 | SS02 | Solid | 11/03/22 13:50 | 11/04/22 13:10 | 0.5 |
| 890-3392-3 | SS03 | Solid | 11/03/22 13:55 | 11/04/22 13:10 | 0.5 |
| 890-3392-4 | SS04 | Solid | 11/03/22 14:00 | 11/04/22 13:10 | 0.5 |
| 890-3392-5 | SS05 | Solid | 11/03/22 14:05 | 11/04/22 13:10 | 0.5 |
| 890-3392-6 | SS06 | Solid | 11/03/22 14:10 | 11/04/22 13:10 | 0.5 |
| 890-3392-7 | SS07 | Solid | 11/03/22 14:15 | 11/04/22 13:10 | 0.5 |
| 890-3392-8 | SS08 | Solid | 11/03/22 14:20 | 11/04/22 13:10 | 0.5 |

4

5

_

8

9

. .

12

13

14

Chain of Custody

| | | | o | | | | 9 | | | 5 |
|--|---|--|---|---|---|--|---|---|---|--|
| | | | 0/0/0 | 2.4.7 | | 1 | A SA | | | |
| ature) Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | Date | | /: (6ignature) | Received by: | | y: (Signature) | Relinquished by: (Signature) |
| ed. | ssigns standard terms and conditions as to circumstances beyond the control be enforced unless previously negotiate | 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 enforced unless previously negotiated. | y to Eurofins Xen as or expenses in ted to Eurofins X | ient compani for any lossi imple submit | rder from cl sponsibility for each sa | tes a valid purchase o all not assume any re ect and a charge of \$8 | samples constitution of samples and simples and simples and simple pplied to each pro | quishment o for the cost 5.00 will be a | document and relin co will be llable only nimum charge of \$8 | Notice: Signature of this document and relinquishme of service. Eurofins Xenco will be liable only for the of Eurofins Xenco. A minimum charge of \$85.00 will |
| Hg: 1631 / 245.1 / / 4/0 / /4/1 | Mo Ni Se Ag II U Hg: 163 | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni | s Ba Be C | RA Sb A | 0: 8RCI | TCLP / SPLP 6010: 8RCRA | ed | oe analyz | nd Metal(s) to | Circle Method(s) and Metal(s) to be analyzed |
| | K Se A | Cd Ca Cr Co Cu Fe Pb Mg | Ba Be B | | Texas 11 | RA 13PPM Te | 8RC | 6020: | 010 200.8 / 6020: | Total 200.7 / 6010 |
| | | | | | | | | | 100 | Co |
| | | | | | | | | 1 | 11.03.07 | |
| | | | × | × | 9 | 1420 0.5 | 11.03.22 | 0 | | SSOB |
| | | | × | × | G | 1415 0.5' | 11.03.22 | S |)7 | SS07 |
| | | | × | × | G | 1410 0.5' | 11.03.22 | w |)6 | SS06 |
| | | | × | × | G | 1405 0.5' | 11.03.22 | v |)5 | \$805 |
| | | | × | × | G | 1400 0.5' | 11.03.22 | S | 04 | SS04 |
| | | | × | × | G | 1355 0.5' | 11.03.22 | G |)3 | SS03 |
| | | | × | × | G | 1350 0.5' | 11.03.22 | S |)2 | SS02 |
| | | | × | × | G | 1345 0.5' | 11.03.22 | S | 01 | SS01 |
| Sample Comments | | | TPH (8 | Cont CHLO | Grab/ # | Time Depth | Date Sampled S | Matrix | ntification | Sample Identification |
| NaOH+Ascorbic Acid: SAPC | | | | RIDE | | erature: 3.8 | Corrected Temperature: | 0 | | Total Containers: |
| Zn Acetate+NaOH: Zn | | | - | ES (E | 0 | F | Temperature Reading: | No. | als: Yes No | Sample Custody Seals: |
| Na20203. Na003 | Chain of Custody | 890-3392 Chain | _ | | (0) | J | Correction Factor: | NA | Is: Yes No | Cooler Custody Seals: |
| NaHWC4: NABIS | | | | _ | 54 | | Thermometer ID: | - | - | Samples Received Intact: |
| H ₃ PO ₄ : HP | | | | nete ().0) | No | Wet Ice: Yes | Par No V | Temp Blank: | | SAMPLE RECEIPT |
| Π ₂ SU ₄ : Π ₂ NaOH: Na | | | | ers | 30pm | the lab, if received by 4:30pm | 3 | | | PO #: |
| | - | - | | | ved by | TAT starts the day received by | | Conner Shore | Con | Sampler's Name: |
| ⊻ | | | | | | Due Date: | | ea County, NM | Lea (| Project Location: |
| None: NO DI Water: H ₂ O | | | | Code | | ✓ Routine ☐ Rush | | 7039 | 030205 | Project Number: |
| ervativ | ST | ANALYSIS REQUEST | | | | Turn Around | Flowline | nian 180 l | SEMU Permian 180 Flowline | Project Name: |
| ADaPT LJ Other: | Deliverables: EDD L ADa | De | | um com | is@eriso | Email: kjennings | | | 817.683.2503 | Phone: |
| ST/USI IRRP Level IV | Level | Re | Midland, TX 79701 | Midlar | te ZIP: | City, State ZIP: | | 9701 | Midland, TX 79701 | City, State ZIP: |
| | State of Project: | | 601 N Marienfeld St Suite 400 | 601 N | | Address: | ite 400 | feld St Su | 601 N Marienfeld St Suite 400 | Address: |
| ownfields RRC Superfund | Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ | Pr | Ensolum, LLC | Ensol | y Name: | Company Name: | | | Ensolum, LLC | Company Name: |
| Work Order Comments | Work Order | | Kalei Jennings | Kalei | different) | Bill to: (if different) | | S | Kalei Jennings | Project Manager: |
| m Page 1 of 2 | www.xenco.com | Hobbs, NM (575) 392-7550, Carlsbad, NM (5/5) 988-3199 | 2-7550, Carlsba | VM (575) 39 | Hobbs, I | | | | | |
| | | EL Paso. TX (915) 585-3443, Lubbock. TX (806) 794-1296 | 85-3443, Lubbo | . TX (915) 5 | EL Paso | | | | | |
| 0: | Work Order No: | Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 | -5440, San Ant | X (432) 704 | Midland, T | | | | | |
| | | Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 | 240-4200, Dalla | n. TX (281) : | Houston | | | | eurotins | euro |
| | | Croal | | 011.5 | | | | | 7. | |

1089 N Canal St

Eurofins Carlsbad

Chain of Custody Record

| ı | |
|---|--|
| | |
| | |

ోస్త eurofins

Environment Testing

SS08 (890-3392-8) SS01 (890-3392-1) State Zip: TX 79701 Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/maintx being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC. SS07 (890-3392-7) SS06 (890-3392-6) SS03 (890-3392-3) SEMU Permian 180 Flowline Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199 SS05 (890-3392-5) SS04 (890-3392-4) SS02 (890-3392-2) Sample Identification - Client ID (Lab 432-704-5440(Tel) Deliverable Requested I II III IV Other (specify) Possible Hazard Identification Midland 1211 W Florida Ave Client Information elinquished by: elinquished by npty Kit Relinquished by oject Name inquished by: rofins Environment Testing South Centre ipping/Receiving (Sub Contract Lab) Custody Seal No ₽ PO# Primary Deliverable Rank Due Date Requested 89000094 FAT Requested (days Phone: 11/10/2022 11/3/22 11/3/22 11/3/22 11/3/22 11/3/22 11/3/22 11/3/22 11/3/22 Mountain 13 50 Date Mountain 14 20 Mountain 14 15 Mountain 14 10 Mountain 14 05 Mountain 14 00 Mountain 13 55 Mountain 13 45 G=grab) (C=comp, Preservation Code: Type Company Company S=solid O=waste/oil, Matrix Solid Solid Solid Solid Solid Solid Solid Solid E-Mail Jessica Kramer@et.eurofinsus com Kramer Jessica Field Filtered Sample (Yes or No) NELAP - Texas me Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Received by 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks × × × × \times × × × Return To Client 8015MOD Calc × × × \times × × \times × × × × × × \times × × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/5035FP_Calc (MOD) BTEX × × × × × × × Analysis × × Total BTEX GCV Requested Disposal By Lab New Mexico Carrier Tracking No(s) Nethod of Shipment Date/Time Date/Time Archive For , a 4 *A* , all 1998 **Total Number of containers** الرهيم COC No: 890-1011 1 G Amchlor H Ascorbic Acid Preservation Codes Page 1 of 890-3392-Ice
DI Water
EDTA Zn Acetate Nitric Acid NaHSO4 MeOH NaOH 된 Special Instructions/Note T - TSP Dodecahydrate
U Acetone
V MCAA Company Ver: 06/08/2021 Company Company None AsNaO2 Na2O4S Na2SO3 Na2SO3 Na2SO4 pH 4-5 other (specify)

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3392-1

SDG Number: Lea County NM

Login Number: 3392 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

| 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: 890-3392-1

SDG Number: Lea County NM

SDG Number: Lea County NM

List Source: Eurofins Midland
List Number: 2
List Creation: 11/07/22 09:10 AM

Creator: Teel, Brianna

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

1

5

11

12

14

<6mm (1/4").





2

3

4

6

8

10

12

1 2

Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3394-1

Laboratory Sample Delivery Group: Lea County NM Client Project/Site: SEMU PERMIAN 180 FLOWLINE

For:

💸 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MEAMER

signature.

Authorized for release by: 11/14/2022 12:02:48 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through

.....LINKS

Received by OCD: 12/7/2022 3:56:05 PM

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 1/9/2023 12:55:30 PM

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (i.e.,

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Client: Ensolum Project/Site: SEMU PERMIAN 180 FLOWLINE Laboratory Job ID: 890-3394-1 SDG: Lea County NM

Table of Contents

| Cover Page | 1 |
|------------------------|----|
| Table of Contents | 2 |
| Definitions/Glossary | 3 |
| Case Narrative | 4 |
| Client Sample Results | 5 |
| Surrogate Summary | 9 |
| QC Sample Results | 10 |
| QC Association Summary | 14 |
| Lab Chronicle | 16 |
| Certification Summary | 18 |
| Method Summary | 19 |
| Sample Summary | 20 |
| Chain of Custody | 21 |
| Receint Checklists | 23 |

Definitions/Glossary

Client: Ensolum Job ID: 890-3394-1
Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

County NM

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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.

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

9

3

4

_

8

40

1 0

13

Case Narrative

Client: Ensolum

Project/Site: SEMU PERMIAN 180 FLOWLINE

Job ID: 890-3394-1

SDG: Lea County NM

Job ID: 890-3394-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3394-1

Receipt

The samples were received on 11/4/2022 1:10 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 3.8°C

Receipt Exceptions

The following samples analyzed were received and analyzed from an unpreserved bulk soil jar: SS09 (890-3394-1), SS10 (890-3394-2), SS11 (890-3394-3) and SS12 (890-3394-4).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-39022 and analytical batch 880-39343 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-39138 and analytical batch 880-39343 was outside the upper control limits.

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

GC Semi VOA

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-3394-1

Job ID: 890-3394-1

Client: Ensolum Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

Client Sample ID: SS09

Date Collected: 11/03/22 14:45 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|--------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:25 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:25 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:25 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:25 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:25 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 15:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 15:25 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cal | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/14/22 12:31 | 1 |
| Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/09/22 12:26 | 1 |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (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 | | 11/08/22 13:32 | 11/08/22 23:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 13:32 | 11/08/22 23:34 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 13:32 | 11/08/22 23:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 11/08/22 13:32 | 11/08/22 23:34 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | | | 11/08/22 13:32 | 11/08/22 23:34 | 1 |
| Method: MCAWW 300.0 - Anions | , Ion Chromato | ography - So | oluble | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 15.9 | | 5.05 | mg/Kg | | | 11/11/22 12:53 | |

Client Sample ID: SS10 Lab Sample ID: 890-3394-2 Matrix: Solid

Date Collected: 11/03/22 14:50 Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:52 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:52 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:52 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:52 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:52 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 15:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 15:52 | 1 |

Job ID: 890-3394-1 Client: Ensolum

Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

Lab Sample ID: 890-3394-2 Client Sample ID: SS10 Date Collected: 11/03/22 14:50

Matrix: Solid Date Received: 11/04/22 13:10 Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|---------------|------------------|---------|
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | 11/09/22 15:2 | 9 11/12/22 15:52 | 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 11/14/22 12:31 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Dil Fac RL Unit D Prepared Analyzed

Total TPH <50.0 U 50.0 mg/Kg 11/09/22 12:26 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac <50.0 U 50.0 11/08/22 13:32 11/08/22 23:55 Gasoline Range Organics mg/Kg (GRO)-C6-C10 <50.0 U 50.0 mg/Kg 11/08/22 13:32 11/08/22 23:55 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/08/22 13:32 11/08/22 23:55

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 106 70 - 130 11/08/22 13:32 11/08/22 23:55 o-Terphenyl 116 70 - 130 11/08/22 13:32 11/08/22 23:55

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 16.5 | | 4.98 | mg/Kg | | | 11/11/22 13:00 | 1 |

Client Sample ID: SS11 Lab Sample ID: 890-3394-3 Matrix: Solid

Date Collected: 11/03/22 14:55 Date Received: 11/04/22 13:10

Sample Depth: 0.5

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

| Organic Comp | ounus (GC) |) | | | | | |
|--------------|---|--------------------|----------|---|---|--|---|
| Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:18 | 1 |
| <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:18 | 1 |
| <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:18 | 1 |
| <0.00399 | U | 0.00399 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:18 | 1 |
| <0.00200 | U | 0.00200 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:18 | 1 |
| <0.00399 | U | 0.00399 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:18 | 1 |
| %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 95 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 16:18 | 1 |
| | Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 | Result Qualifier | <0.00200 | Result Qualifier RL Unit <0.00200 | Result Qualifier RL Unit D <0.00200 | Result Qualifier RL Unit D Prepared <0.00200 | Result Qualifier RL Unit D Prepared Analyzed <0.00200 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 | 11/09/22 15:29 | 11/12/22 16:18 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | 11/09/22 15:29 | 11/12/22 16:18 | 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 | | | 11/14/22 12:31 | 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 | | | 11/09/22 12:26 | 1 |

Client: Ensolum

14.4

Job ID: 890-3394-1 SDG: Lea County NM

Project/Site: SEMU PERMIAN 180 FLOWLINE

Lab Sample ID: 890-3394-3

Date Collected: 11/03/22 14:55 Date Received: 11/04/22 13:10

Client Sample ID: SS11

Matrix: Solid

11/11/22 13:07

Sample Depth: 0.5

| 50.0 | mg/Kg | 11/08/22 13:32 | 11/09/22 00:16 | 1 |
|----------|-----------------|--------------------|--------------------------------|---|
| 50.0 | mg/Kg | 11/08/22 13:32 | | |
| 50.0 | mg/Kg | 11/08/22 13:32 | | |
| | | 11/00/22 13.32 | 11/09/22 00:16 | 1 |
| | | | | |
| 50.0 | mg/Kg | 11/08/22 13:32 | 11/09/22 00:16 | 1 |
| Limits | | Prepared | Analyzed | Dil Fac |
| 70 - 130 | | 11/08/22 13:32 | 11/09/22 00:16 | 1 |
| 70 - 130 | | 11/08/22 13:32 | 11/09/22 00:16 | 1 |
| | Limits 70 - 130 | | Limits Prepared 11/08/22 13:32 | Limits Prepared Analyzed 70 - 130 11/08/22 13:32 11/09/22 00:16 |

Client Sample ID: SS12 Lab Sample ID: 890-3394-4

5.01

mg/Kg

Date Collected: 11/03/22 15:00 Matrix: Solid

Date Received: 11/04/22 13:10

Sample Depth: 0.5

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:44 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:44 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:44 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:44 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:44 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/22 15:29 | 11/12/22 16:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 16:44 | 1 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | | | 11/09/22 15:29 | 11/12/22 16:44 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/14/22 12:31 | 1 |
| Method: SW846 8015 NM - Diese | el Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/09/22 12:26 | 1 |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 13:32 | 11/09/22 00:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 13:32 | 11/09/22 00:37 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 13:32 | 11/09/22 00:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 130 | | | 11/08/22 13:32 | 11/09/22 00:37 | 1 |
| | | | | | | | | |

Client Sample Results

Client: Ensolum

Project/Site: SEMU PERMIAN 180 FLOWLINE

Job ID: 890-3394-1

SDG: Lea County NM

Client Sample ID: SS12 Lab Sample ID: 890-3394-4

Date Collected: 11/03/22 15:00 Matrix: Solid
Date Received: 11/04/22 13:10

Sample Depth: 0.5

| Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|------------------|------|-------|---|----------|----------------|---------|--|--|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Chloride | 13.4 | 5.00 | mg/Kg | | | 11/11/22 13:14 | 1 | | |

E

_

R

10

11

13

12

Surrogate Summary

Client: Ensolum Job ID: 890-3394-1 Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3392-A-1-C MS | Matrix Spike | 95 | 111 | |
| 890-3392-A-1-D MSD | Matrix Spike Duplicate | 89 | 115 | |
| 890-3394-1 | SS09 | 93 | 103 | |
| 890-3394-2 | SS10 | 90 | 106 | |
| 890-3394-3 | SS11 | 95 | 109 | |
| 890-3394-4 | SS12 | 94 | 112 | |
| LCS 880-39138/1-A | Lab Control Sample | 93 | 112 | |
| LCSD 880-39138/2-A | Lab Control Sample Dup | 108 | 112 | |
| MB 880-39022/5-A | Method Blank | 60 S1- | 99 | |
| MB 880-39138/5-A | Method Blank | 59 S1- | 99 | |

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) |
|--------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3393-A-1-C MS | Matrix Spike | 88 | 85 | |
| 890-3393-A-1-D MSD | Matrix Spike Duplicate | 95 | 90 | |
| 890-3394-1 | SS09 | 89 | 96 | |
| 890-3394-2 | SS10 | 106 | 116 | |
| 890-3394-3 | SS11 | 98 | 108 | |
| 890-3394-4 | SS12 | 91 | 95 | |
| LCS 880-39001/2-A | Lab Control Sample | 109 | 119 | |
| LCSD 880-39001/3-A | Lab Control Sample Dup | 100 | 108 | |
| MB 880-39001/1-A | Method Blank | 99 | 114 | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3394-1 Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39022/5-A

Matrix: Solid

Analysis Batch: 39343

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39022

| | MB | MB | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/08/22 15:10 | 11/11/22 18:42 | 1 |

MB MB

MR MR

<0.00200 U

<0.00200 U

Result Qualifier

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 60 | S1- | 70 - 130 | 11/08/22 15:10 | 11/11/22 18:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 11/08/22 15:10 | 11/11/22 18:42 | 1 |

Lab Sample ID: MB 880-39138/5-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Analysis Batch: 39343

Client Sample ID: Method Blank

Analyzed

11/12/22 08:23

11/12/22 08:23

Prepared

11/09/22 15:29

11/09/22 15:29

Prep Type: Total/NA

Prep Batch: 39138

Dil Fac

11/12/22 08:23 <0.00200 U 0.00200 mg/Kg 11/09/22 15:29 <0.00400 U 0.00400 11/09/22 15:29 11/12/22 08:23 mg/Kg <0.00200 U 0.00200 11/09/22 15:29 11/12/22 08:23 mg/Kg 11/09/22 15:29 <0.00400 U 0.00400 mg/Kg 11/12/22 08:23

Unit

mg/Kg

mg/Kg

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 59 | S1- | 70 - 130 | 11/09/22 15:29 | 11/12/22 08:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 11/09/22 15:29 | 11/12/22 08:23 | 1 |

RL

0.00200

0.00200

Lab Sample ID: LCS 880-39138/1-A

Matrix: Solid

Analysis Batch: 39343

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 39138

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09491 | | mg/Kg | | 95 | 70 - 130 | |
| Toluene | 0.100 | 0.09455 | | mg/Kg | | 95 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08730 | | mg/Kg | | 87 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1927 | | mg/Kg | | 96 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09563 | | mg/Kg | | 96 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 93 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 112 | 70 - 130 |

Lab Sample ID: LCSD 880-39138/2-A

Matrix: Solid

Analysis Batch: 39343

| Client Sample ID: Lab | Control Sample Dup |
|-----------------------|----------------------------|
| | Donner Towner To to 1/81 A |

Prep Type: Total/NA

Prep Batch: 39138

| | Spike | LCSD LCSD | | | | 70Rec | | KPD |
|---------|-------|------------------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.08952 | mg/Kg | | 90 | 70 - 130 | 6 | 35 |

LCCD LCCD

Cnika

Job ID: 890-3394-1 Project/Site: SEMU PERMIAN 180 FLOWLINE

SDG: Lea County NM

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

Lab Sample ID: LCSD 880-39138/2-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 39343

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 39138

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Toluene | 0.100 | 0.09075 | | mg/Kg | | 91 | 70 - 130 | 4 | 35 |
| Ethylbenzene | 0.100 | 0.08974 | | mg/Kg | | 90 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2057 | | mg/Kg | | 103 | 70 - 130 | 7 | 35 |
| o-Xylene | 0.100 | 0.1104 | | mg/Kg | | 110 | 70 - 130 | 14 | 35 |
| | | | | | | | | | |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 |

Lab Sample ID: 890-3392-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39343

| Chefft Sample ID. Mat | IIX Shike |
|-----------------------|-----------|
| Prep Type: | Total/NA |

Prep Batch: 39138

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00201 | U | 0.100 | 0.08927 | | mg/Kg | | 89 | 70 - 130 | |
| Toluene | <0.00201 | U | 0.100 | 0.08382 | | mg/Kg | | 83 | 70 - 130 | |
| Ethylbenzene | <0.00201 | U | 0.100 | 0.07488 | | mg/Kg | | 75 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00402 | U | 0.201 | 0.1635 | | mg/Kg | | 81 | 70 - 130 | |
| o-Xylene | <0.00201 | U | 0.100 | 0.08493 | | mg/Kg | | 85 | 70 - 130 | |
| | | | | | | | | | | |

MS MS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 95 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 111 | 70 - 130 |

Lab Sample ID: 890-3392-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 39343

Prep Type: Total/NA

Prep Batch: 39138

| | | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| | Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| | Benzene | <0.00201 | U | 0.0990 | 0.07916 | | mg/Kg | | 80 | 70 - 130 | 12 | 35 |
| | Toluene | <0.00201 | U | 0.0990 | 0.07843 | | mg/Kg | | 79 | 70 - 130 | 7 | 35 |
| | Ethylbenzene | <0.00201 | U | 0.0990 | 0.07188 | | mg/Kg | | 73 | 70 - 130 | 4 | 35 |
| | m-Xylene & p-Xylene | <0.00402 | U | 0.198 | 0.1570 | | mg/Kg | | 79 | 70 - 130 | 4 | 35 |
| | o-Xylene | <0.00201 | U | 0.0990 | 0.08045 | | mg/Kg | | 81 | 70 - 130 | 5 | 35 |
| ı | | | | | | | | | | | | |

MSD MSD

| Surrogate | %Recovery | Quaimer | Limits |
|-----------------------------|-----------|---------|----------|
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 |

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

Lab Sample ID: MB 880-39001/1-A

Matrix: Solid

Analysis Batch: 38944

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 39001

мв мв Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 11/08/22 13:32 11/08/22 20:25 Gasoline Range Organics

(GRO)-C6-C10

Client: Ensolum Job ID: 890-3394-1 Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

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

Lab Sample ID: MB 880-39001/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 39001 Analysis Batch: 38944

| | MB | MB | | | | | | |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 13:32 | 11/08/22 20:25 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/08/22 13:32 | 11/08/22 20:25 | 1 |
| | МВ | MB | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 99 | | 70 - 130 | | | 11/08/22 13:32 | 11/08/22 20:25 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | | | 11/08/22 13:32 | 11/08/22 20:25 | 1 |

Lab Sample ID: LCS 880-39001/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 38944 Prep Batch: 39001 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 972.6 97 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1026 mg/Kg 103 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 109 o-Terphenyl 119 70 - 130

Lab Sample ID: LCSD 880-39001/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 38944 Prep Batch: 39001

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | 1000 | 826.3 | | mg/Kg | | 83 | 70 - 130 | 16 | 20 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 911.4 | | mg/Kg | | 91 | 70 - 130 | 12 | 20 |
| C10-C28) | | | | | | | | | |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 100 | | 70 - 130 |
| o-Terphenyl | 108 | | 70 - 130 |

Lab Sample ID: 890-3393-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 38944 Prep Batch: 39001

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 997 | 946.6 | | mg/Kg | | 92 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 808.4 | | mg/Kg | | 81 | 70 - 130 | |

| Diesel Range Organics (Over | <50.0 | U | 997 | 808.4 | mg/Kg | 81 | 70 - 130 |
|-----------------------------|-----------|-----------|----------|-------|-------|----|----------|
| C10-C28) | | | | | | | |
| | | | | | | | |
| | MS | MS | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | |
| 1-Chlorooctane | 88 | | 70 - 130 | | | | |
| o-Terphenyl | 85 | | 70 - 130 | | | | |

Job ID: 890-3394-1 Client: Ensolum Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

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

Lab Sample ID: 890-3393-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 38944 Prep Type: Total/NA Prep Batch: 39001

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 999 1139 mg/Kg 111 70 - 130 18 20 (GRO)-C6-C10 999 Diesel Range Organics (Over <50.0 U 855.3 mg/Kg 86 70 - 130 6

C10-C28)

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 95 | | 70 - 130 |
| o-Terphenyl | 90 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38850/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39147

мв мв

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/11/22 09:47 | 1 |

Lab Sample ID: LCS 880-38850/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39147

| | Spike | LCS | LCS | | | | %Rec | |
|----------|---------|--------|-----------|-------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 262.1 | - | mg/Kg | | 105 | 90 - 110 | |

Lab Sample ID: LCSD 880-38850/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39147

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 257.1 | | mg/Kg | | 103 | 90 - 110 | 2 | 20 | |

Lab Sample ID: 890-3392-A-8-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39147

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 16.2 | | 250 | 286.8 | | ma/Ka | | 108 | 90 - 110 | |

Lab Sample ID: 890-3392-A-8-C MSD

Matrix: Solid

Analysis Ratch: 39147

| Alialysis Dalcii. 33141 | | | | | | | | | | | |
|-------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 16.2 | | 250 | 282.5 | | mg/Kg | | 107 | 90 - 110 | 2 | 20 |

Eurofins Carlsbad

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Client: Ensolum

Job ID: 890-3394-1 Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

GC VOA

Prep Batch: 39022

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-39022/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 39138

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3394-1 | SS09 | Total/NA | Solid | 5035 | |
| 890-3394-2 | SS10 | Total/NA | Solid | 5035 | |
| 890-3394-3 | SS11 | Total/NA | Solid | 5035 | |
| 890-3394-4 | SS12 | Total/NA | Solid | 5035 | |
| MB 880-39138/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-39138/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-39138/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3392-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3392-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 39343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3394-1 | SS09 | Total/NA | Solid | 8021B | 39138 |
| 890-3394-2 | SS10 | Total/NA | Solid | 8021B | 39138 |
| 890-3394-3 | SS11 | Total/NA | Solid | 8021B | 39138 |
| 890-3394-4 | SS12 | Total/NA | Solid | 8021B | 39138 |
| MB 880-39022/5-A | Method Blank | Total/NA | Solid | 8021B | 39022 |
| MB 880-39138/5-A | Method Blank | Total/NA | Solid | 8021B | 39138 |
| LCS 880-39138/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 39138 |
| LCSD 880-39138/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 39138 |
| 890-3392-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 39138 |
| 890-3392-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 39138 |

Analysis Batch: 39480

| Lab Sample ID 890-3394-1 | Client Sample ID SS09 | Prep Type Total/NA | Matrix Solid | Method Total BTEX | Prep Batch |
|------------------------------------|-----------------------|---------------------|--------------|-------------------|------------|
| 890-3394-2 | SS10 | Total/NA | Solid | Total BTEX | |
| 890-3394-3 | SS11 | Total/NA | Solid | Total BTEX | |
| 890-3394-4 | SS12 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 38944

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3394-1 | SS09 | Total/NA | Solid | 8015B NM | 39001 |
| 890-3394-2 | SS10 | Total/NA | Solid | 8015B NM | 39001 |
| 890-3394-3 | SS11 | Total/NA | Solid | 8015B NM | 39001 |
| 890-3394-4 | SS12 | Total/NA | Solid | 8015B NM | 39001 |
| MB 880-39001/1-A | Method Blank | Total/NA | Solid | 8015B NM | 39001 |
| LCS 880-39001/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 39001 |
| LCSD 880-39001/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 39001 |
| 890-3393-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 39001 |
| 890-3393-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 39001 |

Prep Batch: 39001

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-3394-1 | SS09 | Total/NA | Solid | 8015NM Prep | |

Client: Ensolum
Project/Site: SEMU PERMIAN 180 FLOWLINE

Job ID: 890-3394-1 SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 39001 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3394-2 | SS10 | Total/NA | Solid | 8015NM Prep | |
| 890-3394-3 | SS11 | Total/NA | Solid | 8015NM Prep | |
| 890-3394-4 | SS12 | Total/NA | Solid | 8015NM Prep | |
| MB 880-39001/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-39001/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-39001/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3393-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3393-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 39106

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3394-1 | SS09 | Total/NA | Solid | 8015 NM | |
| 890-3394-2 | SS10 | Total/NA | Solid | 8015 NM | |
| 890-3394-3 | SS11 | Total/NA | Solid | 8015 NM | |
| 890-3394-4 | SS12 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 38850

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3394-1 | SS09 | Soluble | Solid | DI Leach | |
| 890-3394-2 | SS10 | Soluble | Solid | DI Leach | |
| 890-3394-3 | SS11 | Soluble | Solid | DI Leach | |
| 890-3394-4 | SS12 | Soluble | Solid | DI Leach | |
| MB 880-38850/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-38850/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-38850/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3392-A-8-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3392-A-8-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 39147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3394-1 | SS09 | Soluble | Solid | 300.0 | 38850 |
| 890-3394-2 | SS10 | Soluble | Solid | 300.0 | 38850 |
| 890-3394-3 | SS11 | Soluble | Solid | 300.0 | 38850 |
| 890-3394-4 | SS12 | Soluble | Solid | 300.0 | 38850 |
| MB 880-38850/1-A | Method Blank | Soluble | Solid | 300.0 | 38850 |
| LCS 880-38850/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 38850 |
| LCSD 880-38850/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 38850 |
| 890-3392-A-8-B MS | Matrix Spike | Soluble | Solid | 300.0 | 38850 |
| 890-3392-A-8-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 38850 |
| | 1 1 | | | | |

Eurofins Carlsbad

1

9

4

6

8

9

4 4

12

18

Н

SDG: Lea County NM

Project/Site: SEMU PERMIAN 180 FLOWLINE **Client Sample ID: SS09**

Lab Sample ID: 890-3394-1

Matrix: Solid

Date Collected: 11/03/22 14:45 Date Received: 11/04/22 13:10

Client: Ensolum

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 15:25 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39480 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39106 | 11/09/22 12:26 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 39001 | 11/08/22 13:32 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 38944 | 11/08/22 23:34 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 12:53 | CH | EET MID |

Client Sample ID: SS10 Lab Sample ID: 890-3394-2

Date Collected: 11/03/22 14:50

Date Received: 11/04/22 13:10

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 15:52 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39480 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39106 | 11/09/22 12:26 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 39001 | 11/08/22 13:32 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 38944 | 11/08/22 23:55 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MIC |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 13:00 | CH | EET MIC |

Client Sample ID: SS11 Lab Sample ID: 890-3394-3

Date Collected: 11/03/22 14:55 Date Received: 11/04/22 13:10

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 16:18 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39480 | 11/14/22 12:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39106 | 11/09/22 12:26 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 39001 | 11/08/22 13:32 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 38944 | 11/09/22 00:16 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 13:07 | CH | EET MID |

Client Sample ID: SS12 Lab Sample ID: 890-3394-4

Date Collected: 11/03/22 15:00 Date Received: 11/04/22 13:10

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 39138 | 11/09/22 15:29 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 39343 | 11/12/22 16:44 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 39480 | 11/14/22 12:31 | SM | EET MID |

Lab Chronicle

Job ID: 890-3394-1 Client: Ensolum Project/Site: SEMU PERMIAN 180 FLOWLINE SDG: Lea County NM

Client Sample ID: SS12 Lab Sample ID: 890-3394-4

Date Collected: 11/03/22 15:00 Matrix: Solid Date Received: 11/04/22 13:10

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 39106 | 11/09/22 12:26 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 39001 | 11/08/22 13:32 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 38944 | 11/09/22 00:37 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 38850 | 11/07/22 10:43 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 39147 | 11/11/22 13:14 | 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: SEMU PERMIAN 180 FLOWLINE

Job ID: 890-3394-1

SDG: Lea County NM

Laboratory: Eurofins Midland

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

| Authority | Pr | ogram | Identification Number | Expiration Date | | |
|------------------------|----------------------------------|---------------------------------|---|-------------------------|--|--|
| exas | | ELAP | T104704400-22-24 | 06-30-23 | | |
| The following analytes | are included in this report, but | t the laboratory is not certifi | ed by the governing authority. This list ma | av include analytes for | | |
| the agency does not of | • ' | t the laboratory is not certain | | | | |
| , | • ' | Matrix | , , , | ay include analytes for | | |
| the agency does not of | fer certification. | • | , , , | ay include analytes for | | |

3

4

8

10

12

13

14

Method Summary

Client: Ensolum

Project/Site: SEMU PERMIAN 180 FLOWLINE

Job ID: 890-3394-1

SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

E

5

7

8

9

11

12

Sample Summary

Client: Ensolum

Project/Site: SEMU PERMIAN 180 FLOWLINE

Job ID: 890-3394-1

SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3394-1 | SS09 | Solid | 11/03/22 14:45 | 11/04/22 13:10 | 0.5 |
| 890-3394-2 | SS10 | Solid | 11/03/22 14:50 | 11/04/22 13:10 | 0.5 |
| 890-3394-3 | SS11 | Solid | 11/03/22 14:55 | 11/04/22 13:10 | 0.5 |
| 890-3394-4 | SS12 | Solid | 11/03/22 15:00 | 11/04/22 13:10 | 0.5 |

2

3

4

6

8

11

13

Chain of Custody
Houston, TX (281) 240-4200, Dallas, TX (214) 90

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

| 5 | 3 CUM | Relinquished by: (Signature) Re | 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 with be enforced unless previously negotiated. | Circle Method(s) and Metal(s) to be analyzed | Total 200.7 / 6010 200.8 / 6020: | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 60. | 100 | SS12 s 11.03.22 | SS11 s 11.03.22 | SS10 s 11.03.22 | SS09 s 11.03.22 | Sample Identification Matrix Sampled | | S: Yes No Nug | Cooler Custody Seals: Yes No NA Correction | | SAMPLE RECEIPT Temp Blank: Vols | Temp Blank: | PLE RECEIPT Temp Blank: | tLocation: Lea County, N ler's Name: Conner Shore PLE RECEIPT Temp Blank: | tLocation: tLocation: ler's Name: Conner Shore PLE RECEIPT Temp Blank: | t Name: SEMU Permian 180 l t Number: O3D 2 O5 763 7 t Location: Lea County, N ler's Name: Conner Shore PLE RECEIPT Temp Blank: | t Name: t Location: ler's Name: | t Name: tt Name: tt Name: ct Number: ct Location: ler's Name: | ss: 60 state ZIP: Mi st Name: 81 tt Number: C tt Location: er's Name: | any Name: Er Ss: 60 State ZIP: Mi State ZIP: Mi State ZIP: 81 St Name: 81 Location: 61 Location: 62 St Name: 62 St |
|------|-------------|------------------------------------|---|--|----------------------------------|--|--|-----|-----|-----------------|-----------------|-----------------|-----------------|--------------------------------------|----------------------------|--------------------------|---|-------------------------------------|--|-------------|-------------------------|---|---|--|--|---|--|--|
| - | 5 | Received by: (Signature) | les constitutes a valld purchase order fro ples and shall not assume any responsib to each project and a charge of \$5 for eac | TCLP / SPLP 6010: 8RCRA | 8RCRA 13PPM Texas 11 | | | | | .22 1500 0.5' G | .22 1455 0.5' G | .22 1450 0.5' G | .22 1445 0.5' G | te Time Depth Grab/ | Corrected Temperature: 3,8 | Temperature Reading: 4.0 | Correction Factor: | et ice: | | 1 | 1 | 111 | 1111 | | Turn Around Routine Rush Rush Due Date: TAT starts the day received the lab. if received by 4:30p | Email: | Email: Kennings@ Email: Kennings@ Email: Kennings@ Email: Kennings@ Turn Around Park Park Park Park Park Park Park Park | Email: Kennings@ Email: Kennings@ Email: Kennings@ Email: Kennings@ Turn Around Rush Due Date: TAT starts the day received the lab. if received by 4:30p |
| | 11.4.22 131 | Date/Time | m client company to Eurofins) illty for any losses or expense in sample submitted to Eurofin | Sb As Ba Be | Al Sb As Ba Be | | | | | | × × | | 1 × × | CHLOF | 015) | | |)0.0) | er | s | s | s | S Code | Pres. Code | Pres. Code | Midland, TX 79701 solum.com Pres. Code | Midland, TX 79701 Midland, TX 79701 Solum Com Pres. Code | Pres. |
| 6 | A N | Relinquished by: (Signature) Reco | Xenco, its affiliates and subcontractors. It assigns standard terms and conditions is incurred by the client if such losses are due to circumstances beyond the control is Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | Cd Cr Co Cu Pb Mr | 3 Cd Ca Cr Co Cu Fe | | | | | | | | | 890-3384 Chain of Custody | | | | | | | | | | ANALYSIS REQUEST | ANALYSIS REQUEST | ANALYSIS REQ | ANALYSIS REQU | ANALYSIS REQ |
| 0000 | | Received by: (Signature) Date/Time | terms and conditions es beyond the control ss previously negotiated. | Hg: 1631 / 245.1 / 7470 / 7471 | Se A | | | | | | | | | Sample Comments | NaOH+Ascorbic Acid: SAPC | Zn Acetate+NaOH: Zn | Na ₂ S ₂ O ₃ : NaSO ₃ | H ₃ PO ₄ : HP | H ₂ S0 ₄ : H ₂ NaOH: Na | | | 9 | <u>u</u> 0 | servati | ADAPI L. Other: Preservati None: NO Cool: Cool | ADaPT Other: ADaPT Other: Preservati None: NO Cool: Cool | D ADAPT Other: Preservation None: NO Cool: Cool | State of Project: Reporting: Level III PST/UST TRRP Level IV Deliverables: EDD ADaPT Other: Preservative Codes Cool: Cool MeOH: Me |

| | Work | |
|--|-------|---|
| | Order | - |
| | NO: | |
| | | |
| | | |

1089 N Canal St

Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199

Eurofins Carlsbad

Chain of Custody Record

: eurofins

Environment Testing

State Zip: TX, 79701 Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC. SS12 (890-3394-4) SS11 (890-3394-3) SS10 (890-3394-2) SS09 (890-3394-1) Sample Identification - Client ID (Lab ID) Project Name: SEMU PERMIAN 180 FLOWLINE 432-704-5440(Tel) Empty Kit Relinquished by Deliverable Requested | II III IV Other (specify) Possible Hazard Identification Midland Client Information elinquished by: elinquished by 211 W Florida Ave slinquished by: urofins Environment Testing South Centr hipping/Receiving Lee (Sub Contract Lab) Custody Seal No Date/ Due Date Requested 11/10/2022 Date/Time Date/ Primary Deliverable Rank 2 89000094 TAT Requested (days) 11/3/22 11/3/22 11/3/22 11/3/22 Date Mountain Mountain 15 00 Mountain 14 55 Mountain 14 50 Sample 14 45 G=grab) (C=comp, Sample Preservation Code Type Company Company Matrix Solid Solid Solid Solid Jessica Kramer@et.eurofinsus com Kramer Jessica E-Mail lime, **NELAP** - Texas ccreditations Required (See note). Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Special Instructions/QC Requirements Received by 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH × × × × Cooler Temperature(s) °C and Other Remarks. Return To Client × × × × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × 8021B/5035FP_Calc (MOD) BTEX Analysis Requested × × × Total_BTEX_GCV × Disposal By Lab State of Origin
New Mexico Carrier Tracking No(s) Date/Time Date/Time Archive For 4 Total Number of containers بخليج COC No 890-1011 1 A HCL
3 NaCHE
C NA Acetate
D Nitric Acid
F MaHSO4
F MacHor
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA IO M M D C M ≻ Page 1 of 1 Preservation Codes 390-3394-1 Special Instructions/Note **№ № № № № № № № №** Company Company A - Hexane
A None
D AsNaO2
Na204S
Na204S
Na2503
Na25203
R Na25203
F H2SO4
TSP Dodecahydrate
J Acetone
ACAA pH 4-5 other (specify) Trizma

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3394-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3394 List Number: 1 Creator: Clifton, Cloe

| 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 | |

73 UJ US

3

4

b

9

11

12

14

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3394-1

SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 11/07/22 09:10 AM

Login Number: 3394 List Number: 2 Creator: Teel, Brianna

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

4

_

3

4

6

9

11

14



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 | NAPP2231544488 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party: May | verick Permian, LL | .C | OGRID: 33 | 331199 | | | | | |
|---|--------------------|----------------------------------|---------------------------------|---|--|--|--|--|--|
| Contact Name: Bryce V | Vagoner | | Contact Telephone: 928-241-1862 | | | | | | |
| Contact email: Bryce.W | agoner@mavreso | urces.com | Incident # (| (assigned by OCD) NAPP2231544488 | | | | | |
| Contact mailing address 1410 NW County Road | |) | | | | | | | |
| | | Location | n of R | delease So | ource | | | | |
| Latitude 32.56189 Longitude -103.22443 (NAD 83 in decimal degrees to 5 decimal places) | | | | | | | | | |
| Site Name: SEM 180 | | | | Site Type | | | | | |
| Date Release Discovered | d November 3, 202 | 22 | | API# (if appl | plicable) 30-025-39189 | | | | |
| Unit Letter Section | Township | Range | | Count | ntv | | | | |
| C 23 | 20S | 37E | Lea | | | | | | |
| Surface Owner: State | | Nature an | nd Vo | lume of R | Release c justification for the volumes provided below) | | | | |
| Crude Oil | Volume Releas | ed (bbls) 3.4 bbls | S | Volume Recovered (bbls) 0 bbls | | | | | |
| Produced Water | Volume Releas | ed (bbls) | | | Volume Recovered (bbls) | | | | |
| | Is the concentra | ation of dissolved >10,000 mg/l? | chloride | e in the | e Yes 🛛 No | | | | |
| Condensate | Volume Releas | | | | Volume Recovered (bbls) | | | | |
| Natural Gas | Volume Releas | ed (Mcf) | | | Volume Recovered (Mcf) | | | | |
| Other (describe) | Volume/Weigh | t Released (provi |) | Volume/Weight Recovered (provide units) | | | | | |
| Cause of Release The overspray was caus release has been stopped process. Initial response | d and the impacted | area has been see | non-repo | ortable release he C-141 is bo | se. The overspray occurred off pad. The source of the being used to document and close out the remediation | | | | |

Received by OCD: 12/7/20223:56:05 PMM State of New Mexico Page 2 Oil Conservation Division

| | P | ağ | eg | 91 | of) | 83 |
|---|---|----|----|----|-----|----|
| _ | - | | | | _ | |

| Incident ID | NAPP2231544488 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

| | Pooled Fluids on the Surface | | | | | | | | | |
|-------------|------------------------------|----------------|---------------|---|------------------------|-------|--|-------------------------|---|---|
| | Length (ft.) | Width (ft.) | Depth (in) | # of Boundaries *edges of pool where depth is 0. don't count shared boundaries | Oil-Water Ratio (%) | | Estimated Average Depth (ft.) | Pooled Volume (bbl.) | Volume of Oil in Subsurface (bbl.) | Volume of Water in Subsurface (bbl.) |
| Rectangle A | | | | | 0.01 | 0.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle B | | | | | 0.01 | 0.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle C | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle D | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle E | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| | Total Volume (bbl | | | | | | | | 0.00 | 0.00 |

| | | | | Su | bsurface Fluid | S | | | | |
|-------------|------------------|----------------|----------------|---|------------------------|---------------|------------------|--|---|---|
| | Length (ft.) | Width (ft.) | Depth (in.) | Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation | Oil-Water Ratio (%) | Area (ft²) | Volume (bbl.) | Estimated Volume in Subsurface (bbl.) | Volume of Water in Subsurface (bbl.) | Volume of Oil in Subsurface (bbl.) |
| Rectangle A | 308.0 | 113.0 | 0.0 | 0.1 | 0.01 | 34804.0 | 20.7 | 1.7 | 0.02 | 1.6 |
| Rectangle B | 400.0 | 90.0 | 0.0 | 0.1 | 0.01 | 36000.0 | 21.4 | 1.7 | 0.02 | 1.7 |
| Rectangle C | | | | | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle D | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle E | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle F | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle G | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle H | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle I | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle J | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| | Total Volume (bb | | | | | | | | 0.03 | 3.33 |

TOTAL RELEASE VOLUME (bbls): 3.4

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

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 158191

CONDITIONS

| Operator: | OGRID: |
|----------------------|---|
| Maverick Permian LLC | 331199 |
| 0, | Action Number: |
| Houston, TX 77002 | 158191 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| jharimon | None | 11/14/2022 |

| | Page 80 of | 83 |
|----------------|----------------|----|
| Incident ID | NAPP2231544488 | |
| District RP | | |
| Facility ID | | |
| Application ID | | |

Site Assessment/Characterization

| This information must be provided to the appropriate district office no later than 90 days after the release discovery date. | | |
|---|-------------------------|--|
| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>>100</u> (ft bgs) | |
| Did this release impact groundwater or surface water? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ⊠ 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)? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ⊠ 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? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ⊠ No | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ⊠ No | |
| Did the release impact areas not on an exploration, development, production, or storage site? | X Yes No | |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | tical extents of soil | |
| 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. | | |

| 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.

Received by OCD: 12/7/2022 3:56:05 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

| | Page 81 of 8 | 83 |
|-------------|----------------|----|
| ncident ID | NAPP2231544488 | |
| District RP | | |
| Facility ID | | |

Application ID

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

Printed Name: __Bryce Wagoner ______ Title: _Permian HSE Specialist II_____

Signature: _______ Date: __11/28/2022_____

email: _bryce.wagoner@mavresources.com ______ Telephone: ____928-241-1862_____

OCD Only

Received by: _____ Jocelyn Harimon ______ Date: ______ 12/07/2022_____

Page 82 of 83

Incident ID NAPP2231544488
District RP
Facility ID
Application ID

Closure

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

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

| A scaled site and sampling diagram as described in 19.15.29.11 NMAC |
|--|
| Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) |
| Description of remediation activities |
| |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name:Bryce Wagoner Title:Permian HSE Specialist II |
| Signature: |
| email: <u>bryce:wagoner@mavresources.com</u> Telephone:928-241-1862 |
| |
| OCD Only |
| Received by: Date: Date: |
| Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. |
| Closure Approved by: |
| Printed Name: Jennifer Nobui Title:Environmental Specialist A |
| |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 165096

CONDITIONS

| Operator: | OGRID: |
|---|---|
| Maverick Permian LLC | 331199 |
| 1111 Bagby Street Suite 1600 Houston, TX 77002 | Action Number: 165096 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|--------------------------|-------------------|
| jnobui | Closure Report Approved. | 1/9/2023 |