

### **CLOSURE REPORT**

Property:

Schwerdtsferger ALS #10A Unit Letter D, S31 T28N R8W San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2431143123

February 5, 2025 (Updated February 12, 2025)

Ensolum Project No. 05A1226351

Prepared for:

**Enterprise Field Services, LLC** 

614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Landon Daniell Project Geologist Kyle Summers

Senior Managing Geologist

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#### 1.0 INTRODUCTION

### 1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Schwerdtsferger ALS #10A (Site)
NM EMNRD OCD Incident ID No.	NAPP2431143123
Location:	36.62291° North, 107.72857° West Unit Letter D, Section 31, Township 28 North, Range 8 West San Juan County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On October 30, 2024, Enterprise personnel identified a potential release of natural gas from the Schwerdtsferger ALS #10A well tie. Enterprise subsequently isolated and locked the pipeline out of service. On November 1, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact. On November 6, 2024, Enterprise determined the release was "reportable" due to the potential volume of impacted soil. The NM EMNRD OCD was subsequently notified.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

### 1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-site soils to below the applicable NM EMNRD OCD closure criteria.

### 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. During the evaluation and remediation of the Site, Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site, and no PODs were identified in the adjacent PLSS sections (Figure A, Appendix B).
- Three cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the adjacent PLSS sections. No CPWs were identified in the same PLSS section as the Site. These CPWs are depicted on Figure B (Appendix B). Documentation for the closest cathodic protection well located near the Phillips #2, #3, and #1A production pads



indicates a depth to water of 160 feet to 180 feet below grade surface (bgs). This cathodic protection well is located approximately 1.02 miles east of the Site and is approximately 493 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Phillips #4, #3E, and #800 production pads indicates dampness at 100 feet bgs. This cathodic protection well is located approximately 1.32 miles southeast of the Site and is approximately 500 feet higher in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined significant watercourse (Figure C, Appendix B). The Site is approximately 50 feet north from a "blue-line" ephemeral wash.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (Figure D, Appendix B).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (Figure E, Appendix B).
- No freshwater wells or springs were identified within 1,000 feet of the Site (Figure E, Appendix B).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory
  Wetlands Mapper, the Site is not within 300 feet of a wetland (Figure F, Appendix B). The
  Site is located within 300 feet of an 'Intermittently Flooded' (J) riverine, which is not designated
  as a wetland.
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (Figure G, Appendix B).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA)
   National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year
   floodplain (Figure H, Appendix B).

Based on available information Enterprise estimates the depth to water at the Site to potentially be less than 50 feet bgs, resulting in a Tier I ranking. The closure criteria for soils remaining in place at the Site include:



Tier I Closure Criteria for Soils Impacted by a Release					
Constituent <sup>1</sup>	Method	Limit			
Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg			
TPH (GRO+DRO+MRO) <sup>2</sup>	EPA SW-846 Method 8015	100 mg/kg			
BTEX <sup>3</sup>	EPA SW-846 Method 8021 or 8260	50 mg/kg			
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg			

<sup>1 –</sup> Constituent concentrations are in milligrams per kilogram (mg/kg).

#### 3.0 SOIL REMEDIATION ACTIVITIES

On November 1, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 30 feet long and 18 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 16 feet bgs, with a footprint of approximately 540 ft². The lithology encountered during the completion of remediation activities consisted primarily of silty sand and gravel.

Approximately 444 cubic yards (yd³) of petroleum hydrocarbon-affected soils and 25 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding grade.

**Figure 3** is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

### 4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of 13 composite soil samples (S-1 through S-13) from the excavation and one composite soil sample (BF-1) from the backfill for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. The excavator bucket and/or hand tools were utilized to obtain fresh aliquots from the excavation and backfill. Regulatory correspondence is provided in **Appendix E**.

### **Sampling Event**

On November 8, 2024, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (16'), S-2 (16'), and S-3 (16') were collected from the floor of the excavation. Composite soil samples S-4 (0' to 16'), S-5 (0' to 16'), S-6 (0' to 16'), S-7 (0' to 16'), S-8 (0' to 16'), S-9 (0' to 16'), S-10 (0' to 16'), S-11 (0' to 16'), S-12 (0' to 16'), and S-13 (0' to 16') were collected from the walls of the excavation.



<sup>&</sup>lt;sup>2</sup> – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

<sup>&</sup>lt;sup>3</sup> – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

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### **Second Sampling Event**

On January 22, 2025, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample BF-1 was collected from the imported fill.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Eurofins Environment Testing South Central LLC (Eurofins) of Albuquerque, NM, under proper chain-of-custody procedures.

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021; TPH GRO/DRO/MRO using EPA SW-846 Method 8015; and chlorides using EPA Method 300.0.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.

#### 6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-13 and BF-1) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for the composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil sample BF-1 indicate a total combined TPH GRO/DRO/MRO concentration of 10 mg/kg which is less than the NM EMNRD OCD closure criteria of 100 mg/kg. Analytical results for the other confirmation soil samples from the Site indicate TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for composite soil sample BF-1 indicate a chloride concentration of 67 mg/kg which is less than the NM EMNRD OCD closure criteria of 600 mg/kg. Analytical results for the other confirmation soil samples from the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which is less than the NM EMNRD OCD closure criteria of 600 mg/kg.

### 7.0 RECLAMATION

The excavation was backfilled with imported fill and then contoured to the surrounding grade. The backfill and the upper four feet of the excavation have been analytically verified to be below the Tier I soil standards of 50 mg/kg BTEX, 10 mg/kg benzene, 100 mg/kg total combined TPH, and 600 mg/kg Chloride. See **APPENDIX D** and **APPENDIX F** for further documentation.



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#### 8.0 REVEGETATION

Revegetation will be addressed in accordance with 19.15.29.13 NMAC utilizing the recommended seed mix as described in the Vegetation Community Descriptions and Seed Mixes provided by the BLM Farmington Field Office. In this case the surrounding vegetation appears to be predominantly of the Badland and Sagebrush Vegetation Communities. Enterprise will reseed the area with the appropriate seed mix during the next favorable growing season. Enterprise will provide revegetation documentation under separate cover.

#### 9.0 FINDINGS AND RECOMMENDATION

- Fourteen composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 444 yd<sup>3</sup> of petroleum hydrocarbon-affected soils and 25 bbls of hydroexcavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

### 10.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

#### 10.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

### 10.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work, and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

### 10.3 Reliance

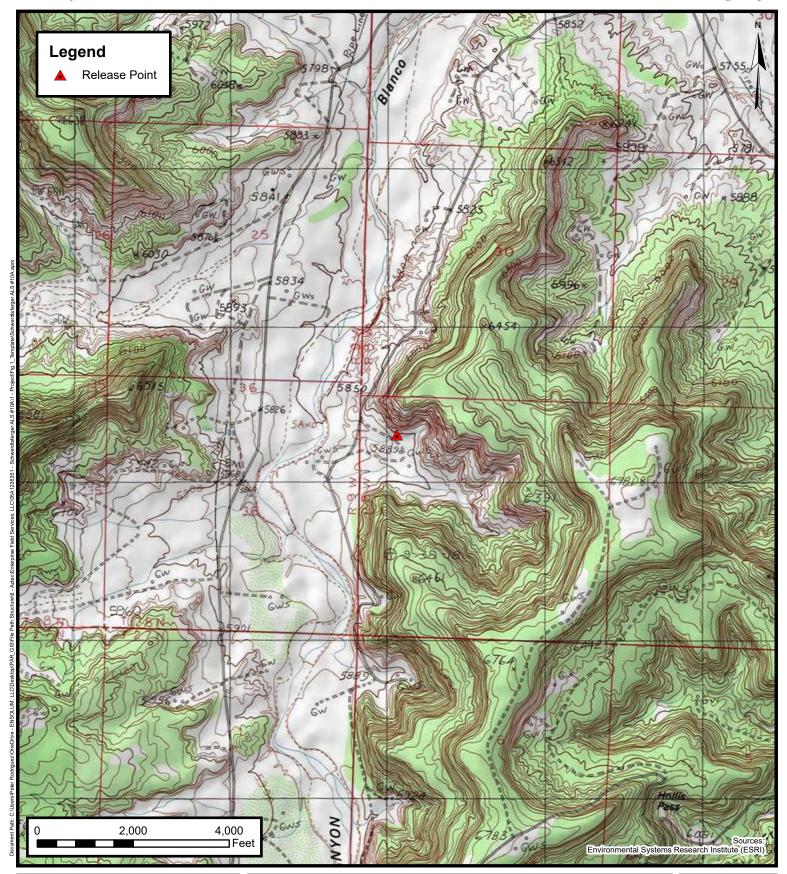
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in this report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.





## **APPENDIX A**

**Figures** 





### **Topographic Map**

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857





### **Site Vicinity Map**

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

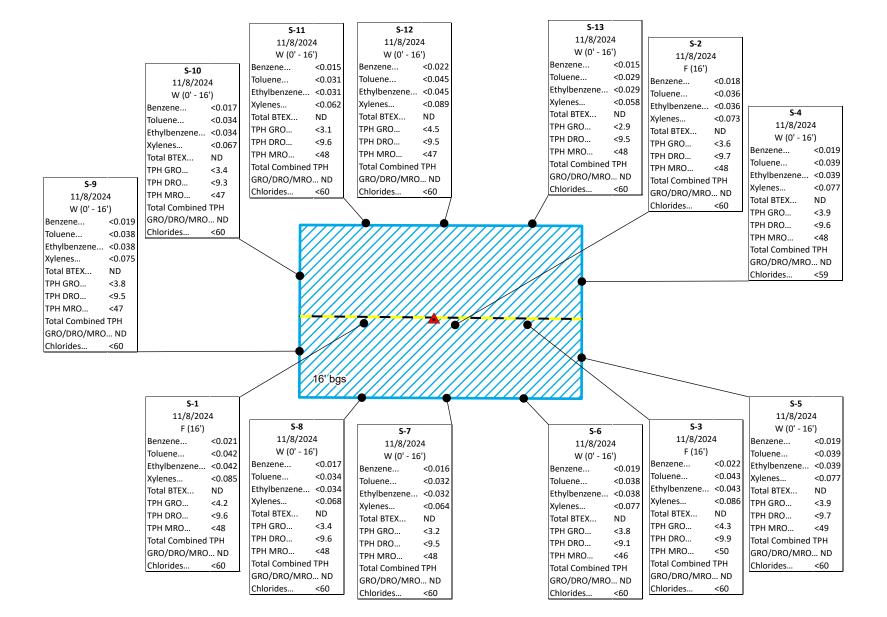
Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857

FIGURE

2

Received by OCD: 2/12/2025 10:54:39 AM







Point of Release

Composite Soil Sample Location

Schwerdtsferger ALS #10A Pipeline



**Excavation Extent** 



# Site Map with Soil Analytical Results

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Unit Letter D, S31 T28N R8W San Juan County, New Mexico

an Juan County, New Mexico 36.62291, -107.72857

## Figure 3

Project Number: 05A1226351

10

applicable NM EMNRD OCD Closure Criteria.

20

⊐Feet

Notes:

F - Floor Sample

W - Wall Sample

All depths are listed in feet BGS.

All depths are listed in feet BGS. Concentrations in **red** exceed the

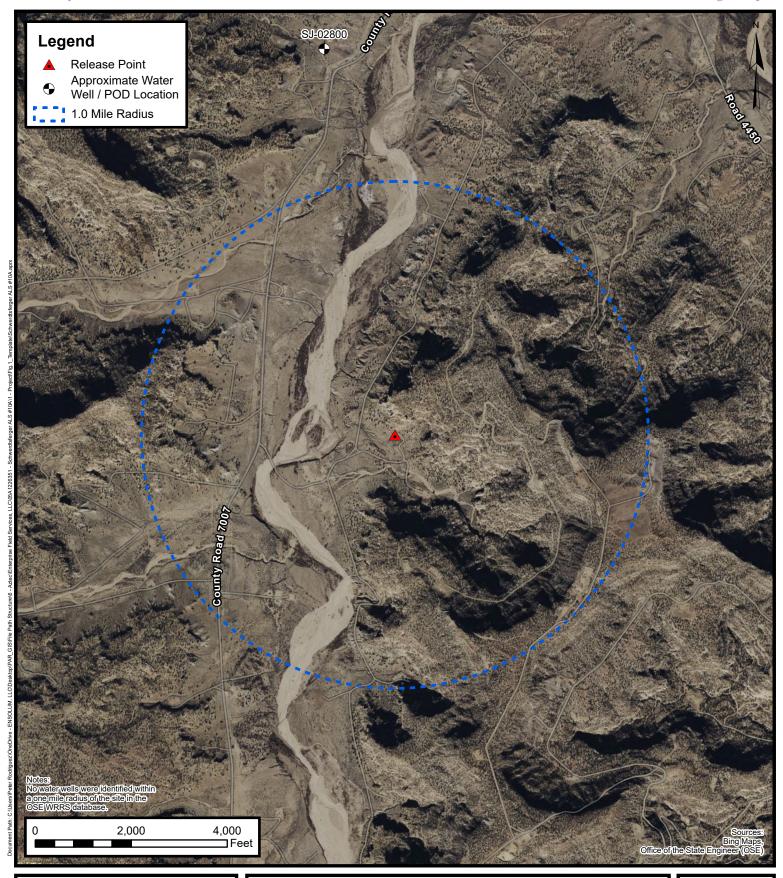
Analytical callouts in **gray** denote sampling location removed by excavation.

All concentration are listed in milligrams per kilogram (mg/kg)



## **APPENDIX B**

Siting Figures and Documentation





## 1.0 Mile Radius Water Well / POD Location Map

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857

A





### **Cathodic Protection Well Recorded Depth to Water**

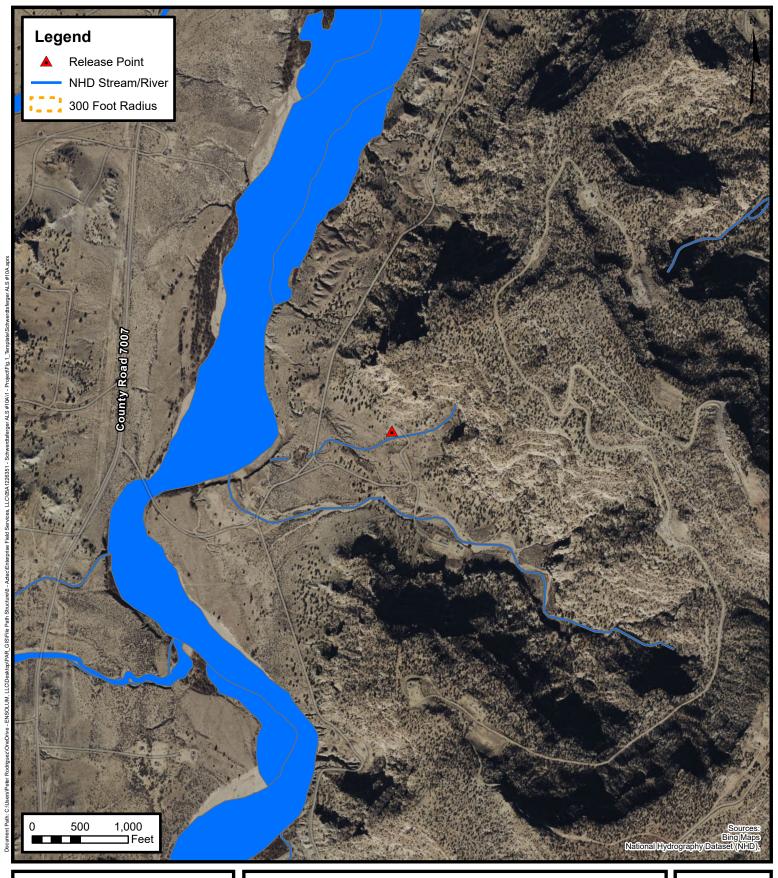
Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

Unit Letter D, S31 T28N R8W, San Juan County, New Mexico

36.62291, -107.72857

**FIGURE** 

B

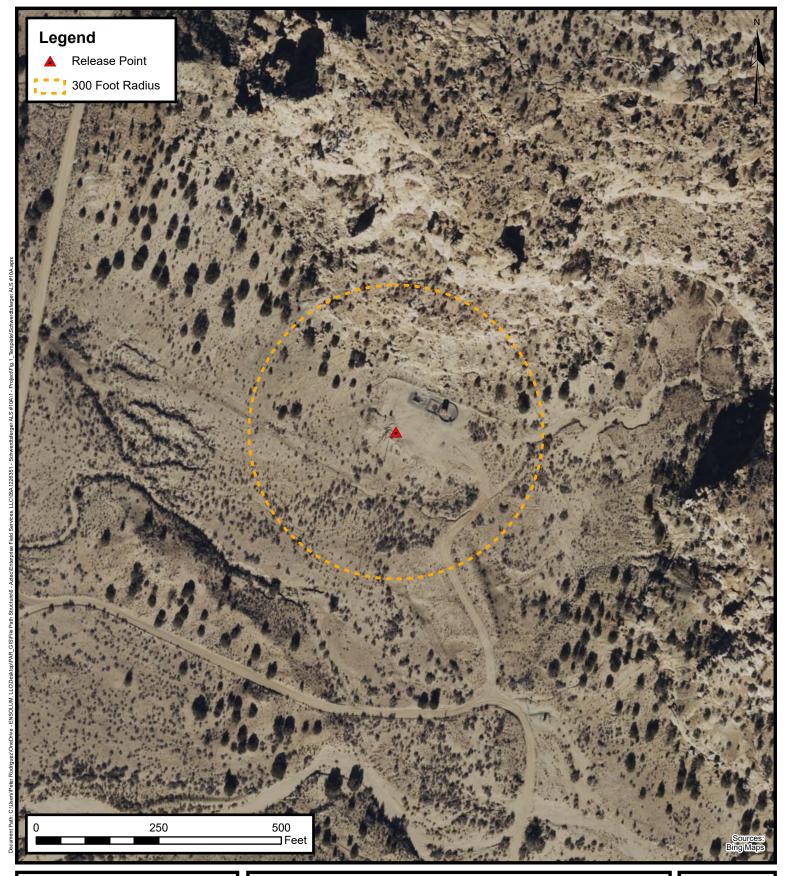




## 300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Schwerdtsferger ALS #10A
Project Number: 05A1226351

Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857

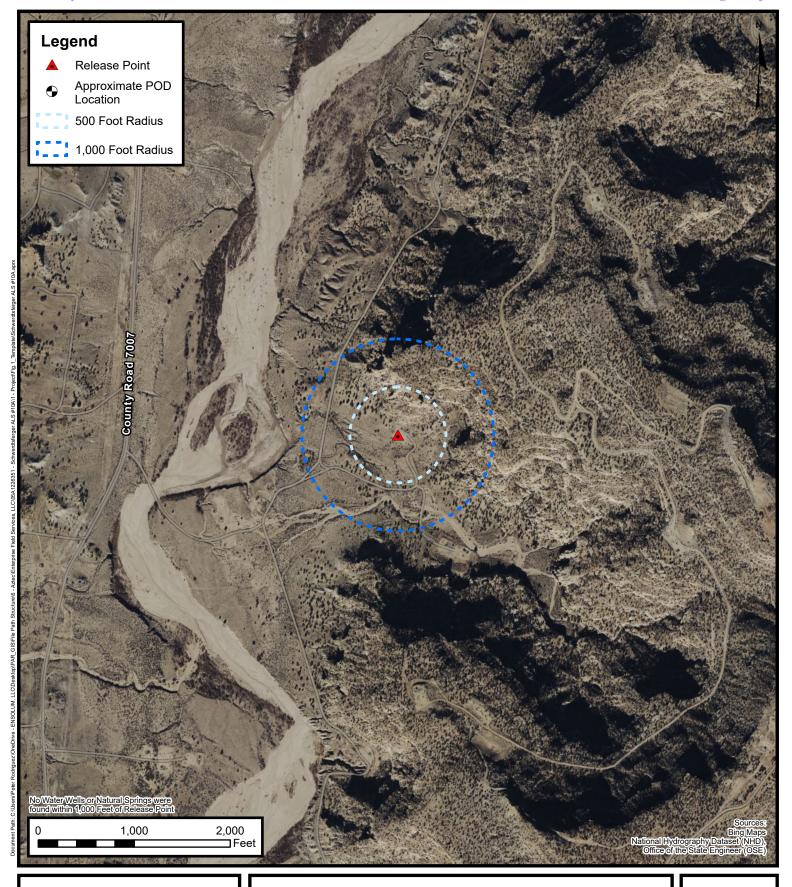




## 300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857

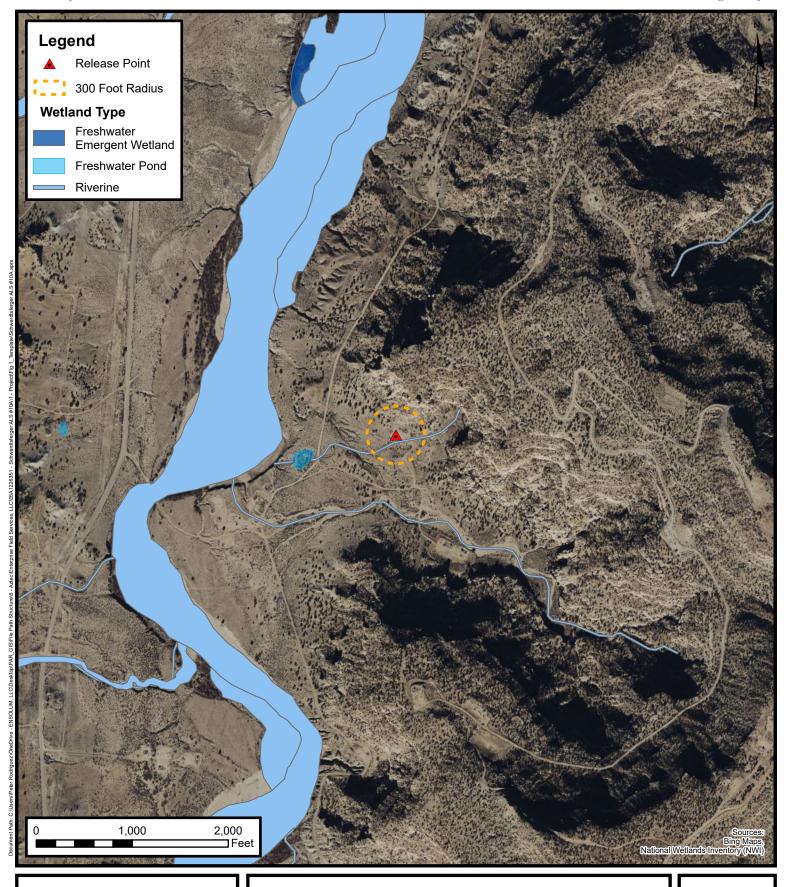




### Water Well and Natural Spring Location

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857



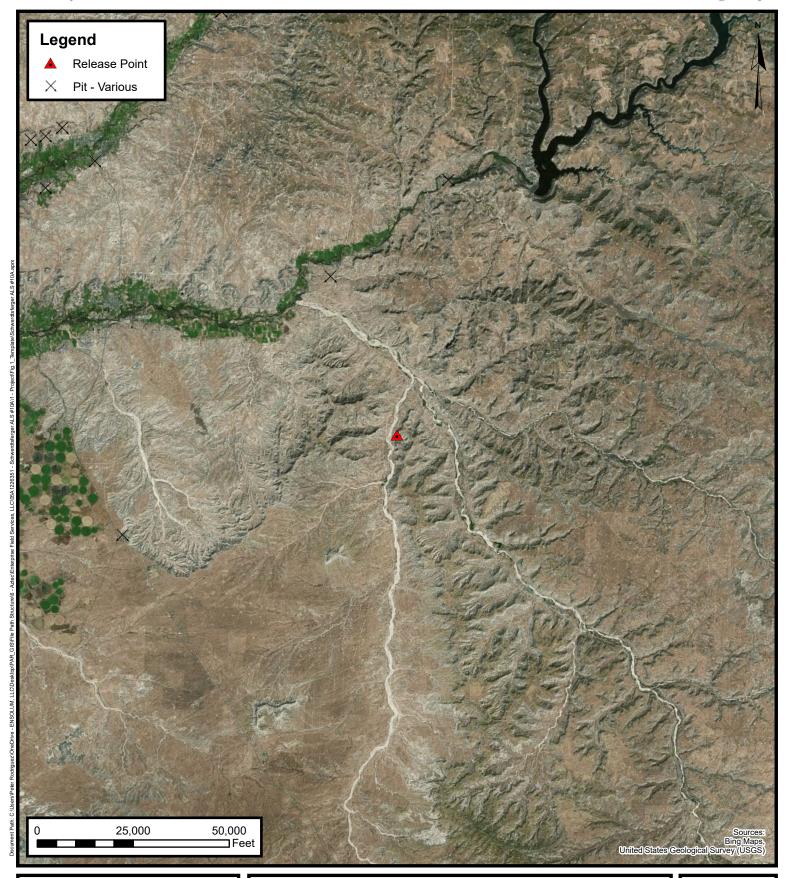


### **Wetlands**

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

Project Number: 05A1226351
Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857

FIGURE **F** 

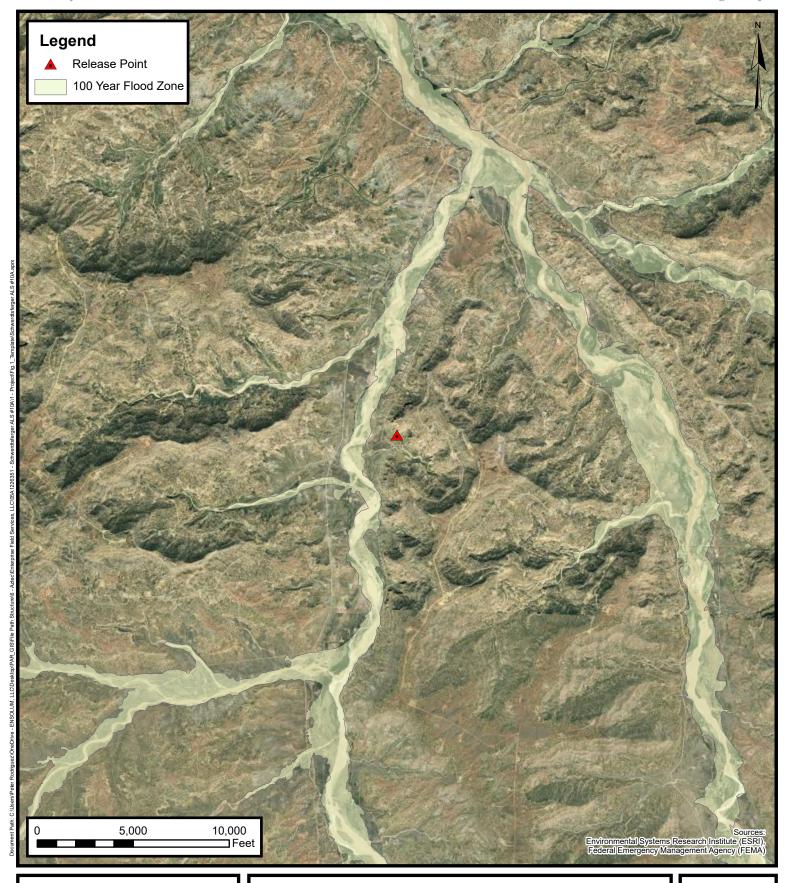




### Mines, Mills, and Quarries

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857





### 100-Year Flood Plain Map

Enterprise Field Services, LLC Schwerdtsferger ALS #10A Project Number: 05A1226351

Unit Letter D, S31 T28N R8W, San Juan County, New Mexico 36.62291, -107.72857



No records found.

**PLSS Search:** 

Section(s): 31, 30, 29, 32 Township: 28N Range: 08W

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



No records found.

**PLSS Search:** 

Section(s): 6, 5 Township: 27N Range: 08W



No records found.

**PLSS Search:** 

Section(s): 1 Township: 27N Range: 09W

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



No records found.

**PLSS Search:** 

Section(s): 25, 36 Township: 28N Range: 09W

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

Received by OCD: 2/12/2025 10:54:39 AM
50-045-06951

## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: UnitSW Sec.32 Twp 28 Rng 8
Name of Well/Wells or Pipeline Serviced PHILLIPS #1
cps 547w
Elevation 6379' Completion Date 4/16/64 Total Depth 260' Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types used N/A
If Cement or Bentonite Plugs have been placed, show depths & amounts used  N/A
Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. N/A
DECEIVE M
Depths gas encountered: N/A MAY31 1991
Type & amount of coke breeze used: 41251bs. OIL CON. DIV.
Depths anodes placed: 175', 169', 163', 157', 151' DIST. 3
Depths vent pipes placed: N/A
Vent pipe perforations: N/A
Remarks: gb.#1

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

<sup>\*</sup>Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

## WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

DATE 4-16-	- 64
WELL NAME Phillips No.1 CPS NO. 5	•
LOCATION 31/2 32-28-8	
WORK ORDER NUMBER 53061	
ANODE HOLE DEPTH 260	
TOTAL DRILLING RIG TIME 17 Hrs.	
DRILLING TIME FOR RECTIFIER POLE HOLE 6	
TYPE AND SIZE BIT USED 778 - Security-Ser # 67	744-X
NUMBER SACKS MUD USED	
NUMBER SACKS LOST CIRCULATION MAT'L USED	
ANODE DEPTHS #1 175, #2 169, #3 163, #4 157 5 151	
TOTAL LBS. COKE USED 4/25	
ANODE OUTPUTS /2.7 VOLTS, #1 22.6, #2 3.9, #3 4.7, #4 5.0	553
TOTAL CIRCUIT RESISTANCE: VOLTS $12.2$ AMPERES $7.4$ OHMS $1$	TO THE STATE OF THE PROPERTY O
NUMBER FEET SURFACE CABLE CONDOTT 308	
DRILLING LOG (ATTACH HERETO).	
FORMATION LOG (ATFACH HERETO).	
REMARKS: Static 93. 80 R 600' NE	- Fortile
P.F.M. Red. Ser. # 637255 - 28 V12 F	9
ALL CONSTRUCTION COMPLETED	
Janels	
SIGNATURE	
GROUND BED LAYOUT SKETCH	

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## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator	MERIDIAN OIL	Locatio	n: Unit NW Sec.	32 Twp 28 Rng 8
Name of Wel	ll/Wells or Pipelin	e Serviced PH	ILLIPS #2. #3, #1	Α
	<del></del>			cps 646w
Elevation <u>6</u>	739'Completion Date	10/5/73 Total	Depth 700' La	nd Type* N/A
Casing, Siz	es, Types & Depths	N/A		
If Casing i	s cemented, show a	mounts & types	used <u>N/A</u>	
	or Bentonite Plugs	_	d, show depths	& amounts used
	nickness of water z		_	-
Depths gas	encountered: N	/A		
Type & amou	int of coke breeze	used: 9000 lbs	<u> </u>	
Depths anod	les placed: 525', 51	15', 495', 485', 44	10', 430', 420', 3	355', 335'
Depths vent	pipes placed:	N/A	DECEIV	VED
Vent pipe p	erforations:	487 '	MAY 3 1 199	עו
Remarks:	jb #2		OIL CON.	
			DIST. ?	

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

<sup>\*</sup>Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Fa hington Region.

(505) 327-0251

Post Office Box 4289 Farmington, New Mexico 87499

Page 29 of 107

. w 57 CZ3S :Per 10 E

WELL CASING . CATHODIC PROTECTION CONSTRUCTION REPORT Completion Date 11-11-DAILY LOG

CPS /	Well Name, Line or Plant:		Work Order #	Static:	les. Union Check
	Phillips #	I-A			Good D and
( ) (	Phillips #	2			21 Com ( ) total
646-W	Phillips #	3			7
NW 32-28-8	Anode Sise: 2"×60"	Anode Type: Dur	. 1	Size Bic: 1,	
Depth Drilled 540	Depth Logged 530	Drilling Big Time	Total Libs. Gefor Used	Lost Circulation Mat's Used	No. Sorks Mod Lind
Anode Depth   2 3	372 * 3364	#4 356 # S	348 #6 340	#1 272 #8 244	. , 200 . 16 19 C
Anode Output (Amps)	3.8 #3 4.8	#4 4.8 #s	3.4 #6 3.1	* 7 3.3 * 8 3.4	* 9 3.9 * 10 3.2
Anode Depth # 12	16 <b>1</b> 8 6 7 8 9 9 9 1	<b>≈ 14</b>	15	# 17	p 19 a 20
Anode Output (Amps)	18 00 (1 topp) a	# 14 # :	15 # 16	n 17   v 18	# 19 # 20
Total Circuit Resista	ince	Ohms . 7	No. 8 C.P. 24		No. 2 C.P. Cable Used

540 LOGGED 530. HIT WATER BETWEEN 160 + 180 ENOUGH for SAMPLE, INSTALLED

Rectifier Size:	
Addn'l Depth	30' /
Depth Credit:	
Extra Cable:	10'.1
Ditch & 1 Cable:	260,
Ditch & 2 Cable:	
25' Heter Pole:	-
20' ileter Pole:	-
10' Stub Pole:	
Junction Box:	1

4399.00	646.w
292.50 🗙	
2.00	
182.00	
269.90	
5145.40	
_257.27	~b-
Released to Imaging: 3/	14/2025PH, 117:46.4M

All Construction Completed

(Signature)

New GROUND BED

هه GROWD BED

ەسەمۇن مان BED 12

### MERIDIAN OIL

P. O. BOX 4289-Phone 327-0251
FARMINGTON, NM Date //-//-8/7
DEEP WELL GROUNDBED LOG

C	ompony	MERIDIAN	O C	o Lug	70.0
W	oli No. Ph. 11	PS#1-A Location	NW32-28-8	Voits Applied —	12.05 Amperes 15.
		230		455 1.1	680 0 3 80-17 - 36
10		235		460 • (e)   -	685 (5) 3 - Z - 1 (2) - 3.8 690 (3) 3(4 - 2) (2 - 4.8
20		245		470 -A	65 65 5 5 5 5 4 5 4 8
25		250	<del>/                                      </del>	475 . 3 . 480 . A	700 3 54 8 2 2 2 9 705 63 8 4 5 2 5 8 3 [
<b>30</b> 35		260	1.2	485 . 5	710 6 1 7 6 1 6 3 3
40		265	47	490 .5	715 6 14 21 3 2
		270		495 . 5	725 6 96 26 35
\$5.		280	. 8	500 27 2 2 2 2 2	7700
60	17. IT IN 12.5	290	. 8 · · · · · · · · · · · · · · · · · ·	510 /- O	765
65 70		295	. 8	520 . 9	740
75		300	.9	525 . 8	750
60		305	. 9	sso · 8 170.530	755
85 j		315	. 8	540	765
95		320	. 8	545 S50 S S S S S S S S S S S S S S S S S	770
100		330	. 8	555	780
100 mg at a 100 mg at a 110 mg		335	1.0	560	785
1 1 Wages 1 17 115	$\blacksquare \blacksquare \blacksquare$	340	1.6	565	795
120 125		350	2. 23	575	800: 4 8 8 9 9 9
130	<u> </u>	355	2. l 1. 9•	580	805
135 140	┠╌╁╌╂╌	360	1. 9° 2.3	S85 590	810
145		370	184	595	820
150		375	1. 6 1. 5°	600	825
155		385	.6	610	835
. 165		390	.4	615	840
170	1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	395 400	1.5	625	850
180	1.0	405	.5	630	855
185	1.2	410	A	635	860
190	2.5	420	4	645	870
200	1.8	425	. 6	650	875
205	1.0	430	.5	655	885
210 215	131	435	.6	665	890
220	. 1	11.17.16 AM		670	895
Released to Imagin	g: 3/14/2025	11: 7:46 AM 450	1,34	675	900

1414

4-30-045-20924 32-30-045-26485 800-30-045-27190

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC.	Location: Unit N Sec. 32 Twp 28 Rng 8
Name of Well/Wells or Pipeline Servi	ced PHILLIPS #4, #3E, #800
	cps 2160w
Elevation 6398' Completion Date 7/5/89	Total Depth 240' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have be	en placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible:
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A FIECE
Depths anodes placed: 189', 173', 165',	158' MAY 9
Depths vent pipes placed: N/A	OIL CON DIV.
Vent pipe perforations: N/A	BIST. 2 DIV.
Remarks: (gb.#2	** S & ****

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Drilling Log (Attach Hereto)

Released to Imaging: 3/14/2025 11:17:46 AM

	¢
IN	

Completion Date 7-5-89

CB.	Wall Mana	Line or Plant:		907_	ork Order			•		Ins. Union Check	•
		11.05 #8	100	<del>^</del>	F/c		4	Static:	5 897	1	
		11.05 4		(3)	10/				5 = .811	⊠ Good	☐ Bad
2.160m		illips #				- 44390			Sw = .853	1	
Location:	Ai	node Size:	Anode Typ	e:		_ 11010	Size E	lie.		<del>-1</del>	
N32-38	-8	2"160	" Du	uriro	<u>ی</u>			63/	4		
Depth Drilled /	Depth Lo	unand .	Drilling Rig Time		Total I	Lbs. Goke Used		Lost Circulation	Mat'l Used	No. Sacks Mud Us	ed ·
500 1/24 Anode Depth	0	240		· · · · ·	۲,				<del></del>	,	
#1/85 #2/	701	#3/7/	i <b>**</b>	157	hole	ZNOhole		<b>-</b> ≯	#8 173	  -0     E	1
Anode Output (Amps)	70	#3/-//	# 4 164	1#3 1S	7_3	# 6 187		/ 181	* 8 1 1.5	4 9 165	# 10 1 30
#1 3.4 #2	49	#3 7.2	#4 7.2	# 5 6.	9	#6 2.5	#	74.3	*8 4.9	#9 5.2	# 10 3.2
Anode Depth		1		1			1		1	 	1
# 11 # 12		# 13	# 14	# 15		# 16	#	17	# 18	# 19	# 20
Anode Output (Amps)		!	1			, !	i			! !	
# 11 # 12 Total Circuit Resista		# 13	# 14	# 15		# 16 No. 8 C.P. Co		17	# 18	# 19 No. 2 C.P. Cal	i# 20
Volts /2.17	!	· /3.5	Ohms .	901		No. 8 C.P. Cu	Die (	J36 <b>G</b>			
VOIIS / G. / /		<u> </u>	Oillins 4	, , , ,		<del></del>				<u> </u>	
Remarks: DR	161 E	~ 500	' Hole	CAU	ΕŊ	/N) A7	-	2251	OUT 5	ANDO	-5 in
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_											
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BOTTON	1 2	60'				1					
* &	7			7 ~		max	- 17	2 12 00	2	-	
	<del></del>		Pou	) E 6.		(///6/6		DRO	Ρ/		
Rectifier Size:	<u>60 v</u>	30	Λ _						All Construc	tion Complete	d
Addn'l Depth	260	3.75	<u> </u>	<u> </u>	D.				A. CO		
Depth Credit: Extra Cable:	<u>- 36</u>		<u> </u>	15	Las fa			W	$-O\gamma$	70	~
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25 'Meter Pole:			_ <b>)</b> / ‡	14					(Sig	nature)	
20" Meter Pole:	1		_ //``	ROUND B	BED L	AYOUT SKE	TCH	j			
10' Stub Pole:	<del></del>		_ ′	,		•	o.	#800		•	
Junction Box:		1	- 1	1		•	, T	1			1 1
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Client	Drill No Shilling Devidu	DRILLING CO.  DRILLER'S WELL LOG  State New Mex.
		f moved from original staked position show distance
FROM	TO	FORMATION — COLOR — HARDNESS
0	150	SANdetone
		Shale
		SANDY Shale
		SANdstone
		Sandy Shale
		Shale
		Spridstone
460	500	SANDSTONE
Mud		BromLime
Rock Bit N	Number	Make
Remarks:	Damy	0 100
	Dri	Her RONNIE Drown

	D.	Crass Drilling Co.
	Drill No	0.3
PJ	11	DRILLER'S WELL LOG
REAL	1/2/2	
S. P. No.	Phill	105 #800 Date 7 - 5 - 89
		Prospect Man Man
County	JAN J	UAN State New Mex
If`hole is o	redrill or	if moved from original staked position show distance
and direct	tion moved	:
FROM	ТО	FORMATION — COLOR — HARDNESS
		SANdstone
		Shale
-	• ·	SANdstone
	1	SANdy Shale
		Shale
_		SANdstone
•		Shale
215	240	SANdstone
V6-4		D
		Bran Lime
Rock Bit 1	_	
Remarks:	NAWA	@ 100'
	Dri	ller Course Brown



### **APPENDIX C**

Executed C-138 Solid Waste Acceptance Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138 Revised 08/01/11

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

The Color of the C					
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	PayKey: AM14058 PM: ME Eddleman AFE: Pending				
2. Originating Site: Schwerdtsferger ALS #10A					
3. Location of Material (Street Address, City, State or ULSTR): UL D Section 31 T28N R8W 36.622910, -107.728570					
4. Source and Description of Waste: Source: Remediation activities associated with a natural gas pipeline leak. Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release. Estimated Volume 50 yd³ / bbls Known Volume (to be entered by the operator at the end of					
5. GENERATOR CERTIFICATION STATEMENT OF WAST	E STATUS				
I, Thomas Long, representative or authorized agent for Enterprise Products Operating of Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Envir regulatory determination, the above described waste is: (Check the appropriate classification)	conmental Protection Agency's July 1988				
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production exempt waste.  **Operator Use Only: Waste Acceptance Frequency   Monthly   Wester Acceptance   Monthly   Monthly   Wester Acceptance   Monthly   Monthly	eekly Per Load				
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the m characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous subpart D, as amended. The following documentation is attached to demonstrate the above-the appropriate items)	waste as defined in 40 CFR, part 261,				
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ C	Other (Provide description in Box 4)				
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMEN	NT FOR LANDFARMS				
I, Thomas Long 11-1-2024, representative for Enterprise Products Operating authorize Generator Signature the required testing/sign the Generator Waste Testing Certification.	zes <u>Envirotech, Inc.</u> to complete				
I,, representative forEnvirotech, Inc do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.					
5. Transporter: TBD					
OCD Permitted Surface Waste Management Facility	1 0011				
Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NM 0 Address of Facility: Hilltop, NM Method of Treatment and/or Disposal:  Evaporation Injection Treating Plant Landfarm	_				
Waste Acceptance Status:  APPROVED DENIED (M	lust Be Maintained As Permanent Record)				
PRINT NAME: SIGNATURE: Surface Waste Management Facility Authorized Agent TITLE: Enviro Management Facility Authorized Agent 505-632-	DATE: N/1/24				



## APPENDIX D

Photographic Documentation

#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Schwerdtsferger ALS 10A Ensolum Project No. 05A1226351



#### Photograph 1

Photograph Description: View of the release point.



### Photograph 2

Photograph Description: View of the inprocess excavation activities.



#### Photograph 3

Photograph Description: View of the inprocess excavation activities.



#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Schwerdtsferger ALS 10A Ensolum Project No. 05A1226351



#### Photograph 4

Photograph Description: View of the inprocess excavation activities.



### Photograph 5

Photograph Description: View of the final excavation.



#### Photograph 6

Photograph Description: View of the final excavation.



#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Schwerdtsferger ALS 10A Ensolum Project No. 05A1226351



#### Photograph 7

Photograph Description: View of the backfilled excavation.





## **APPENDIX E**

Regulatory Correspondence

From: Long, Thomas

To: Kyle Summers; Chad D"Aponti

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 400024

Date: Wednesday, November 6, 2024 12:07:26 PM

#### [ \*\*EXTERNAL EMAIL\*\*]

FYI

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Wednesday, November 6, 2024 12:01 PM

To: Long, Thomas <tjlong@eprod.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application

ID: 400024

#### [Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2431143123.

The sampling event is expected to take place:

When: 11/08/2024 @ 12:00

**Where:** D-31-28N-08W 0 FNL 0 FEL (36.62291,-107.72857)

**Additional Information:** Ensolum, LLC

**Additional Instructions:** 36.62291,-107.72857

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the

sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

**From:** OCDOnline@state.nm.us < OCDOnline@state.nm.us >

**Sent:** Thursday, January 16, 2025 1:51 PM **To:** Long, Thomas <<u>tilong@eprod.com</u>>

**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application

ID: 421741

#### [Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2431143123.

The sampling event is expected to take place:

When: 01/22/2025 @ 10:30

Where: D-31-28N-08W 0 FNL 0 FEL (36.62291,-107.72857)

**Additional Information:** Ensolum LLC

**Additional Instructions:** 36.62291,-107.72857

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

 Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

From: Long, Thomas
To: Kyle Summers

Subject: FW: [EXTERNAL] Schwerdtsferger ALS #10A - Unit Letter D, S31 T28N R8W; 36.62291, 107.72857; NMOCD

Incident ID No. NAPP2431143123

**Date:** Wednesday, February 12, 2025 10:28:11 AM

Attachments: Outlook-vrvnsbs0.png

#### [ \*\*EXTERNAL EMAIL\*\*]

From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Subject: Re: [EXTERNAL] Schwerdtsferger ALS #10A - Unit Letter D, S31 T28N R8W; 36.62291,

107.72857; NMOCD Incident ID No. NAPP2431143123

#### [Use caution with links/attachments]

Good morning Tom,

Thank you for the notice. After conversing with you on the phone yesterday, 60-day time extension request is approved. Remediation Due date updated to April 7, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | <u>nelson.velez@emnrd.nm.gov</u>

http://www.emnrd.nm.gov/ocd\_



From: Long, Thomas < tilong@eprod.com > Sent: Wednesday, February 5, 2025 7:32 AM

**To:** Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>

**Cc:** Stone, Brian < bmstone@eprod.com>

Subject: [EXTERNAL] Schwerdtsferger ALS #10A - Unit Letter D, S31 T28N R8W; 36.62291,

107.72857; NMOCD Incident ID No. NAPP2431143123

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

Nelson,

Enterprise requests a time extension. The original due date for the closure report submittal is <u>February 6, 2025</u>. Enterprise requests time extension of an additional <u>30 days</u> for a new submittal due date of <u>March 6, 2025</u>. Enterprise requires additional time to finalize the closure report and allow time for internal review. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



## **APPENDIX F**

Table 1 – Soil Analytical Summary

## TABLE 1 Schwerdtsferger ALS 10A SOIL ANALYTICAL SUMMARY

						-	TABLE 1						
						Schwere	dtsferger ALS						
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup> (mg/kg)	Chloride (mg/kg)
	Depa onservation Div	neral & Natural F ertment vision Closure C ier I)		10	NE	NE	NE	50	NE	NE	NE	100	600
						Excavation C	omposite Soi	l Samples					
S-1	11.08.24	С	16	<0.021	<0.042	<0.042	<0.085	ND	<4.2	<9.6	<48	ND	<60
S-2	11.08.24	С	16	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.7	<48	ND	<60
S-3	11.08.24	С	16	<0.022	< 0.043	<0.043	<0.086	ND	<4.3	<9.9	<50	ND	<60
S-4	11.08.24	С	0 to 16	<0.019	< 0.039	<0.039	<0.077	ND	<3.9	<9.6	<48	ND	<59
S-5	11.08.24	С	0 to 16	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<9.7	<49	ND	<60
S-6	11.08.24	С	0 to 16	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.1	<46	ND	<60
S-7	11.08.24	С	0 to 16	<0.016	<0.032	<0.032	<0.064	ND	<3.2	<9.5	<48	ND	<60
S-8	11.08.24	С	0 to 16	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.6	<48	ND	<60
S-9	11.08.24	С	0 to 16	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.5	<47	ND	<60
S-10	11.08.24	С	0 to 16	<0.017	<0.034	<0.034	<0.067	ND	<3.4	<9.3	<47	ND	<60
S-11	11.08.24	С	0 to 16	<0.015	<0.031	<0.031	<0.062	ND	<3.1	<9.6	<48	ND	<60
S-12	11.08.24	С	0 to 16	<0.022	<0.045	<0.045	<0.089	ND	<4.5	<9.5	<47	ND	<60
S-13	11.08.24	С	0 to 16	<0.015	<0.029	<0.029	<0.058	ND	<2.9	<9.5	<48	ND	<60
						Backfill Co	omposite Soil	Sample					
BF-1	01.22.25	С	BF	<0.024	< 0.049	<0.049	<0.098	ND	<4.9	10	<49	10	67

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

ND = Not Detected above the Practical Quantitation Limits (PQLs) or Reporting Limits (RLs)

NE = Not established

NS = Not sampled

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

BF = Backfill sample

<sup>1 =</sup> Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.



## **APPENDIX G**

Laboratory Data Sheets & Chain of Custody Documentation

## **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410
Generated 11/11/2024 1:59:17 PM

## **JOB DESCRIPTION**

Schwerdtsferger ALS #10A

## **JOB NUMBER**

885-15038-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

## **Eurofins Albuquerque**

### **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## **Authorization**

Generated 11/11/2024 1:59:17 PM

Authorized for release by John Caldwell, Project Manager john.caldwell@et.eurofinsus.com (505)345-3975

Page 2 of 34

Client: Ensolum Laboratory Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

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### **Definitions/Glossary**

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

**Glossary** 

ML

NC

ND

NEG

POS

PQL

**PRES** 

QC RER

RL

RPD TEF

TEQ

TNTC

MPN MQL

Abbreviation	These commonly used abbreviations may or may not be present in this report.
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

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#### **Case Narrative**

Client: Ensolum Job ID: 885-15038-1

Project: Schwerdtsferger ALS #10A

Job ID: 885-15038-1 **Eurofins Albuquerque** 

#### Job Narrative 885-15038-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 11/9/2024 7:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

#### Gasoline Range Organics

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

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

#### **Diesel Range Organics**

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.

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Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-1

Lab Sample ID: 885-15038-1

Matrix: Solid

Date Collected: 11/08/24 12:00 Date Received: 11/09/24 07:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.2	mg/Kg		11/10/24 17:17	11/10/24 19:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			11/10/24 17:17	11/10/24 19:33	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		11/10/24 17:17	11/10/24 19:33	1
Ethylbenzene	ND		0.042	mg/Kg		11/10/24 17:17	11/10/24 19:33	1
Toluene	ND		0.042	mg/Kg		11/10/24 17:17	11/10/24 19:33	1
Xylenes, Total	ND		0.085	mg/Kg		11/10/24 17:17	11/10/24 19:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			11/10/24 17:17	11/10/24 19:33	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/11/24 08:37	11/11/24 11:10	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/11/24 08:37	11/11/24 11:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	79	-	62 - 134			11/11/24 08:37	11/11/24 11:10	1

Method: EPA 300.0 - Anions, ion Ci	iromatograpny						
Analyte	Result Qualific	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		11/09/24 09:02	11/09/24 10:01	20

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Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-2

Date Collected: 11/08/24 12:05 Date Received: 11/09/24 07:07

Lab Sample ID: 885-15038-2

 			-	
	Mat	rix:	Solid	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.6	mg/Kg		11/10/24 17:17	11/10/24 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			11/10/24 17:17	11/10/24 19:56	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018	mg/Kg		11/10/24 17:17	11/10/24 19:56	1
Ethylbenzene	ND		0.036	mg/Kg		11/10/24 17:17	11/10/24 19:56	1
Toluene	ND		0.036	mg/Kg		11/10/24 17:17	11/10/24 19:56	1
Xylenes, Total	ND		0.073	mg/Kg		11/10/24 17:17	11/10/24 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			11/10/24 17:17	11/10/24 19:56	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		11/11/24 08:37	11/11/24 11:20	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/11/24 08:37	11/11/24 11:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	78		62 - 134			11/11/24 08:37	11/11/24 11:20	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		11/09/24 09:02	11/09/24 10:11	20

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-3 Lab Sample ID: 885-15038-3

Date Collected: 11/08/24 12:10
Date Received: 11/09/24 07:07

Matrix: Solid

Method: SW846 8015M/D - Gasoli	ne Range Organics (G	RO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND —	4.3	mg/Kg		11/10/24 17:17	11/10/24 20:19	1
0	0/ D 0!#	1 : : 4			D	A I	D# 5

Surrogate	%Recovery C	Qualifier	Limits	Prepar	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166	11/10/24	17:17	11/10/24 20:19	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022	mg/Kg		11/10/24 17:17	11/10/24 20:19	1
Ethylbenzene	ND		0.043	mg/Kg		11/10/24 17:17	11/10/24 20:19	1
Toluene	ND		0.043	mg/Kg		11/10/24 17:17	11/10/24 20:19	1
Xylenes, Total	ND		0.086	mg/Kg		11/10/24 17:17	11/10/24 20:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			48 145			11/10/24 17:17	11/10/24 20:19	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		11/11/24 08:37	11/11/24 11:31	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		11/11/24 08:37	11/11/24 11:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	79		62 - 134			11/11/24 08:37	11/11/24 11:31	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		11/09/24 09:02	11/09/24 10:21	20

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1'

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-4

Lab Sample ID: 885-15038-4

Matrix: Solid

Date Collected: 11/08/24 12:15 Date Received: 11/09/24 07:07

Method: SW846 8015M/D - Gasol	ine italige org	ariics (Orte	) ( <b>GG</b> )					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.9	mg/Kg		11/10/24 17:17	11/10/24 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			11/10/24 17:17	11/10/24 20:43	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	mg/Kg		11/10/24 17:17	11/10/24 20:43	1
Ethylbenzene	ND		0.039	mg/Kg		11/10/24 17:17	11/10/24 20:43	1
Toluene	ND		0.039	mg/Kg		11/10/24 17:17	11/10/24 20:43	1
Xylenes, Total	ND		0.077	mg/Kg		11/10/24 17:17	11/10/24 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			11/10/24 17:17	11/10/24 20:43	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/11/24 08:37	11/11/24 11:41	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/11/24 08:37	11/11/24 11:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			11/11/24 08:37	11/11/24 11:41	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	59	mg/Kg		11/09/24 09:02	11/09/24 10:32	20

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Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-5

Date Collected: 11/08/24 12:20

Date Received: 11/09/24 07:07

Client: Ensolum

Lab Sample ID: 885-15038-5

Ma

rix: Solid
rix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.9	mg/Kg		11/10/24 17:17	11/10/24 21:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			11/10/24 17:17	11/10/24 21:06	1

Analyzed Dil Fa 10/24 21:06 10/24 21:06 10/24 21:06 10/24 21:06 Analyzed Dil Fa
10/24 21:06 10/24 21:06 10/24 21:06
10/24 21:06 10/24 21:06
10/24 21:06
Analyzed Dil Fa

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		11/11/24 08:37	11/11/24 11:52	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		11/11/24 08:37	11/11/24 11:52	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	82		62 - 134			11/11/24 08:37	11/11/24 11:52	

Method: EPA 300.0 - Anions, ion Ci	nromatograpny						
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		11/09/24 09:02	11/09/24 10:42	20

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-6

Chloride

Lab Sample ID: 885-15038-6

11/09/24 09:02

11/09/24 11:13

20

Matrix: Solid

Date Collected: 11/08/24 12:25 Date Received: 11/09/24 07:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.8	mg/Kg		11/10/24 17:17	11/10/24 21:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			11/10/24 17:17	11/10/24 21:30	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	mg/Kg		11/10/24 17:17	11/10/24 21:30	1
Ethylbenzene	ND		0.038	mg/Kg		11/10/24 17:17	11/10/24 21:30	1
Toluene	ND		0.038	mg/Kg		11/10/24 17:17	11/10/24 21:30	1
Xylenes, Total	ND		0.077	mg/Kg		11/10/24 17:17	11/10/24 21:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			11/10/24 17:17	11/10/24 21:30	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Discal Dange Organica (C40 C20)	ND		9.1	mg/Kg		11/11/24 08:37	11/11/24 12:03	1
Diesel Range Organics [C10-C28]				11.7		11/11/24 08:37	11/11/24 12:03	4
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		11/11/24 00:07		1
	ND %Recovery	Qualifier	46 <b>Limits</b>	mg/Kg		Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]		Qualifier		mg/Kg				Dil Fac
Motor Oil Range Organics [C28-C40]  Surrogate		<u>·</u>	Limits	mg/kg		Prepared	Analyzed	Dil Fac

60

mg/Kg

ND

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-7 Lab Sample ID: 885-15038-7

Date Collected: 11/08/24 12:30 Matrix: Solid

Date Received: 11/09/24 07:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.2	mg/Kg		11/10/24 17:17	11/10/24 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			11/10/24 17:17	11/10/24 21:53	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016	mg/Kg		11/10/24 17:17	11/10/24 21:53	1
Ethylbenzene	ND		0.032	mg/Kg		11/10/24 17:17	11/10/24 21:53	1
Toluene	ND		0.032	mg/Kg		11/10/24 17:17	11/10/24 21:53	1
Xylenes, Total	ND		0.064	mg/Kg		11/10/24 17:17	11/10/24 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			11/10/24 17:17	11/10/24 21:53	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		11/11/24 08:37	11/11/24 10:39	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/11/24 08:37	11/11/24 10:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			11/11/24 08:37	11/11/24 10:39	1

Method. EPA 300.0 - Allions, Ion C	inomatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	60	mg/Kg		11/09/24 09:02	11/09/24 11:23	20

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Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

**Client Sample ID: S-8** 

Client: Ensolum

Chloride

Lab Sample ID: 885-15038-8

11/09/24 09:02

11/09/24 11:34

20

Matrix: Solid

Date Collected: 11/08/24 12:35	
Date Received: 11/09/24 07:07	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4	mg/Kg		11/10/24 17:17	11/10/24 22:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			11/10/24 17:17	11/10/24 22:16	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		11/10/24 17:17	11/10/24 22:16	1
Ethylbenzene	ND		0.034	mg/Kg		11/10/24 17:17	11/10/24 22:16	1
Toluene	ND		0.034	mg/Kg		11/10/24 17:17	11/10/24 22:16	1
Xylenes, Total	ND		0.068	mg/Kg		11/10/24 17:17	11/10/24 22:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			11/10/24 17:17	11/10/24 22:16	1
- Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		11/11/24 08:37	11/11/24 10:51	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		11/11/24 08:37	11/11/24 10:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
D' ( ) -  - ( ) - ( ) - ( )	103		62 - 134			11/11/24 08:37	11/11/24 10:51	1
Di-n-octyl phthalate (Surr)								
Di-n-octyl pntnalate (Surr)  Method: EPA 300.0 - Anions, Ion	Chromatograp	ohv						

60

mg/Kg

ND

Client: Ensolum Job ID: 885-15038-1

RL

3.8

RL

0.019

0.038

0.038

0.075

Limits

35 - 166

Unit

mg/Kg

mg/Kg

mg/Kg

D

Prepared

Project/Site: Schwerdtsferger ALS #10A

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

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

Result Qualifier

Result Qualifier

Qualifier

ND

98

ND

ND

ND

ND

ND

ND

%Recovery

Client Sample ID: S-9

Date Collected: 11/08/24 12:40

Date Received: 11/09/24 07:07

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

Diesel Range Organics [C10-C28]

Motor Oil Range Organics [C28-C40]

Surrogate

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Lab Sample ID: 885-15038-9

**Matrix: Solid** 

Analyzed	Dil Fac	
1/10/24 22:40	1	

11/10/24 17:17 Dil Fac Prepared Analyzed 11/10/24 17:17 11/10/24 22:40

11/11/24 11:03

11/11/24 11:03

Unit Prepared Analyzed Dil Fac mg/Kg 11/10/24 17:17 11/10/24 22:40 11/10/24 17:17 11/10/24 22:40 mg/Kg 11/10/24 22:40 mg/Kg 11/10/24 17:17 11/10/24 17:17 11/10/24 22:40 mg/Kg Dil Fac

11/11/24 08:37

11/11/24 08:37

Qualifier %Recovery Prepared Surrogate Limits Analyzed 4-Bromofluorobenzene (Surr) 99 48 - 145 11/10/24 17:17 11/10/24 22:40 Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC) RL Dil Fac Analyte Result Qualifier Unit D Prepared Analyzed

9.5

47

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 11/11/24 08:37 11/11/24 11:03 Di-n-octyl phthalate (Surr) 109 62 - 134

Method: EPA 300.0 - Anions, Ion Chromatography

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride ND 60 mg/Kg 11/09/24 09:02 11/09/24 11:44 20

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

**Client Sample ID: S-10** Date Collected: 11/08/24 12:45

Date Received: 11/09/24 07:07

Lab Sample ID: 885-15038-10

Matrix: Solid

Analyzed 11/10/24 23:03	Dil Fac
11/10/24 23:03	
11/10/24 23.03	'
Analyzed	Dil Fac
11/10/24 23:03	1
1	

Method: SW846 8021B - Volati	le Organic Compo	unds (GC)						
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		11/10/24 17:17	11/10/24 23:03	1
Ethylbenzene	ND		0.034	mg/Kg		11/10/24 17:17	11/10/24 23:03	1
Toluene	ND		0.034	mg/Kg		11/10/24 17:17	11/10/24 23:03	1
Xylenes, Total	ND		0.067	mg/Kg		11/10/24 17:17	11/10/24 23:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			11/10/24 17:17	11/10/24 23:03	1

Prepared	Analyzed	Dil Fac	
11/10/24 17:17	11/10/24 23:03		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		11/11/24 08:37	11/11/24 11:15	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		11/11/24 08:37	11/11/24 11:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			11/11/24 08:37	11/11/24 11:15	1

Method: EPA 300.0 - Anions, Ion Chromatography									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	ND		60	mg/Kg		11/09/24 09:02	11/09/24 11:55	20

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-11

Lab Sample ID: 885-15038-11

**Matrix: Solid** 

Date Collected: 11/08/24 12:50 Date Received: 11/09/24 07:07

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)											
Analyte Gasoline Range Organics [C6 - C10]	Result	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 11/10/24 17:17	Analyzed 11/10/24 23:50	Dil Fac			
Surrogate	%Recovery	Qualifier	Limits	mg/kg		Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	94		35 - 166			11/10/24 17:17	11/10/24 23:50	1			

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene ND 0.015 mg/Kg 11/10/24 17:17 11/10/24 23:50 ND Ethylbenzene 0.031 11/10/24 17:17 11/10/24 23:50 mg/Kg Toluene ND 0.031 11/10/24 17:17 11/10/24 23:50 mg/Kg ND 0.062 Xylenes, Total 11/10/24 17:17 11/10/24 23:50 mg/Kg Surrogate

Qualifier %Recovery Limits Prepared Dil Fac Analyzed 48 - 145 4-Bromofluorobenzene (Surr) 96 11/10/24 17:17 11/10/24 23:50

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Dil Fac Unit D Prepared Analyzed ND 9.6 Diesel Range Organics [C10-C28] mg/Kg 11/11/24 08:37 11/11/24 11:27 Motor Oil Range Organics [C28-C40] ND 48 mg/Kg 11/11/24 08:37 11/11/24 11:27 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 11/11/24 08:37 11/11/24 11:27 106 62 - 134

Method: EPA 300.0 - Anions, Ion Chromatography Analyte Result Qualifier RL Unit D Prepared Dil Fac Analyzed Chloride ND 60 mg/Kg 11/09/24 09:02 11/09/24 12:05 20

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-12 Lab Sample ID: 885-15038-12

Date Collected: 11/08/24 12:55 Matrix: Solid

Date Received: 11/09/24 07:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.5	mg/Kg		11/10/24 17:17	11/11/24 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			11/10/24 17:17	11/11/24 00:13	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022	mg/Kg		11/10/24 17:17	11/11/24 00:13	1
Ethylbenzene	ND		0.045	mg/Kg		11/10/24 17:17	11/11/24 00:13	1
Toluene	ND		0.045	mg/Kg		11/10/24 17:17	11/11/24 00:13	1
Xylenes, Total	ND		0.089	mg/Kg		11/10/24 17:17	11/11/24 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			11/10/24 17:17	11/11/24 00:13	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		11/11/24 08:37	11/11/24 11:39	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		11/11/24 08:37	11/11/24 11:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			11/11/24 08:37	11/11/24 11:39	1

Method: EPA 300.0 - Anions, Ion Chromatography										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	ND ND	60	mg/Kg		11/09/24 09:02	11/09/24 12:15	20			

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Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Chloride

**Client Sample ID: S-13** Lab Sample ID: 885-15038-13

Date Collected: 11/08/24 13:00 Matrix: Solid

Date Received: 11/09/24 07:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	ND		2.9	mg/Kg		11/10/24 17:17	11/11/24 00:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		35 - 166			11/10/24 17:17	11/11/24 00:36	
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.015	mg/Kg		11/10/24 17:17	11/11/24 00:36	
Ethylbenzene	ND		0.029	mg/Kg		11/10/24 17:17	11/11/24 00:36	
Toluene	ND		0.029	mg/Kg		11/10/24 17:17	11/11/24 00:36	
Xylenes, Total	ND		0.058	mg/Kg		11/10/24 17:17	11/11/24 00:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		48 - 145			11/10/24 17:17	11/11/24 00:36	
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		11/11/24 08:37	11/11/24 11:51	
	ND		48	mg/Kg		11/11/24 08:37	11/11/24 11:51	
Motor Oil Range Organics [C28-C40]								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Motor Oil Range Organics [C28-C40]  Surrogate  Di-n-octyl phthalate (Surr)		Qualifier	Limits 62 - 134			<b>Prepared</b> 11/11/24 08:37	<b>Analyzed</b> 11/11/24 11:51	Dil Fa
Surrogate								Dil Fa

60

mg/Kg

ND

11/09/24 09:02

11/09/24 12:46

20

Client Sample ID: Method Blank

Job ID: 885-15038-1 Client: Ensolum

Project/Site: Schwerdtsferger ALS #10A

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-15655/1-A **Matrix: Solid** 

Analysis Batch: 15653

Prep Type: Total/NA Prep Batch: 15655 мв мв

mg/Kg

Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 11/10/24 17:17 11/10/24 19:09

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 99 35 - 166 11/10/24 17:17 11/10/24 19:09

Lab Sample ID: LCS 885-15655/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analyte

Analysis Batch: 15653

Gasoline Range Organics [C6 -

Prep Batch: 15655 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 25.0 24.4 97 70 - 130

C10]

LCS LCS

%Recovery Qualifier Limits Surrogate 202 35 - 166 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-15038-1 MS

**Matrix: Solid** 

**Analysis Batch: 15653** 

Prep Batch: 15655 Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits

21.2 95 Gasoline Range Organics [C6 -ND 20.1 mg/Kg 70 - 130C10]

MS MS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 195 35 - 166

Lab Sample ID: 885-15038-1 MSD

**Matrix: Solid** 

**Analysis Batch: 15653** 

Prep Type: Total/NA Prep Batch: 15655

Sample Sample MSD MSD Spike %Rec Result Qualifier Qualifier Added RPD Limit Analyte Result %Rec Limits Unit Gasoline Range Organics [C6 -ND 21.2 20.5 mg/Kg 97 70 - 130 2 20

C10]

MSD %Recovery Surrogate Qualifier Limits

MSD

35 - 166 4-Bromofluorobenzene (Surr) 199

Method: 8021B - Volatile Organic Compounds (GC)

Released to Imaging: 3/14/2025 11:17:46 AM

Lab Sample ID: MB 885-15655/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA **Analysis Batch: 15654** Prep Batch: 15655

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 0.025 Benzene ND mg/Kg 11/10/24 17:17 11/10/24 19:09 Ethylbenzene ND 0.050 mg/Kg 11/10/24 17:17 11/10/24 19:09 ND 0.050 11/10/24 19:09 Toluene 11/10/24 17:17 mg/Kg

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Client Sample ID: S-1

Client Sample ID: S-1

Prep Type: Total/NA

RPD

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15655

Job ID: 885-15038-1 Client: Ensolum

Project/Site: Schwerdtsferger ALS #10A

Lab Sample ID: MB 885-15655/1-A

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

**Matrix: Solid** 

Analysis Batch: 15654

Prep Batch: 15655 MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Xylenes, Total ND 0.10 11/10/24 17:17 11/10/24 19:09 mg/Kg

MR MR %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 48 - 145 11/10/24 17:17 11/10/24 19:09

Lab Sample ID: LCS 885-15655/3-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 15654 Prep Batch: 15655 LCS LCS Spike %Rec

Analyte Added Result Qualifier %Rec Unit Limits Benzene 1.00 1.02 mg/Kg 102 70 - 130 Ethylbenzene 1.00 1.08 mg/Kg 108 70 - 130 Toluene 1.00 1.08 mg/Kg 108 70 - 130 Xylenes, Total 3.00 3.17 mg/Kg 106 70 - 130

LCS LCS Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 48 - 145 103

Client Sample ID: S-2 Lab Sample ID: 885-15038-2 MS **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15654

7 maryoro Batom 1000 i										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.728	0.756		mg/Kg		104	70 - 130	
Ethylbenzene	ND		0.728	0.774		mg/Kg		106	70 - 130	
Toluene	ND		0.728	0.791		mg/Kg		109	70 - 130	
Xylenes, Total	ND		2.18	2.27		mg/Kg		103	70 - 130	

MS MS Surrogate Qualifier Limits %Recovery 4-Bromofluorobenzene (Surr) 48 - 145 99

Lab Sample ID: 885-15038-2 MSD Client Sample ID: S-2 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 15654									Prep	Batch:	15655
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.728	0.739		mg/Kg		101	70 - 130	2	20
Ethylbenzene	ND		0.728	0.770		mg/Kg		106	70 - 130	0	20
Toluene	ND		0.728	0.780		mg/Kg		107	70 - 130	1	20
Xylenes, Total	ND		2.18	2.28		mg/Kg		103	70 - 130	0	20

MSD MSD Qualifier Surrogate %Recovery Limits 48 - 145 4-Bromofluorobenzene (Surr) 99

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Job ID: 885-15038-1 Client: Ensolum

Project/Site: Schwerdtsferger ALS #10A

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-15665/1-A **Matrix: Solid** 

Lab Sample ID: LCS 885-15665/2-A

**Analysis Batch: 15668** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15665

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 11/11/24 08:37 11/11/24 10:38 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 11/11/24 08:37 11/11/24 10:38

MB MB

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 89 62 - 134 11/11/24 08:37 11/11/24 10:38

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15665

**Analysis Batch: 15668** Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits 50.0 37.1 60 - 135 Diesel Range Organics mg/Kg

[C10-C28]

**Matrix: Solid** 

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 80 62 - 134

Lab Sample ID: 885-15038-13 MS Client Sample ID: S-13 **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 15669** Prep Batch: 15665

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 47.9 **Diesel Range Organics** ND 46.4 mg/Kg 97 44 - 136 [C10-C28]

MS MS %Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 62 - 134 112

Lab Sample ID: 885-15038-13 MSD Client Sample ID: S-13 **Matrix: Solid** 

Analysis Batch: 15669

MSD MSD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit Limits RPD **Diesel Range Organics** ND 48.0 47.2 44 - 136 mg/Kg

[C10-C28]

MSD MSD %Recovery Surrogate Qualifier Limits Di-n-octyl phthalate (Surr) 105 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 885-15641/3 Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15641

Released to Imaging: 3/14/2025 11:17:46 AM

MRL MRL %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits Chloride 0.500 0.521 mg/L 104 50 - 150

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Prep Type: Total/NA Prep Batch: 15665

Prep Batch: 15644

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-15644/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 15641

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed

Chloride ND 1.5 mg/Kg 11/09/24 09:02 11/09/24 09:40

Lab Sample ID: LCS 885-15644/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15641 Prep Batch: 15644 Spike LCS LCS %Rec

Added Qualifier Analyte Result Unit D %Rec Limits Chloride 15.0 14.4 mg/Kg 96 90 - 110

Lab Sample ID: 885-15038-12 MS Client Sample ID: S-12 Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 15641 Prep Batch: 15644 MS MS %Rec Sample Sample Spike

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride ND 30.2 ND NC 50 - 150 mg/Kg

Lab Sample ID: 885-15038-12 MSD Client Sample ID: S-12 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15641 Prep Batch: 15644 Spike MSD MSD %Rec RPD Sample Sample

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Limit ND Chloride ND 29.7 NC 50 - 150 NC 20 mg/Kg

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

### **GC VOA**

### Analysis Batch: 15653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-1	S-1	Total/NA	Solid	8015M/D	15655
885-15038-2	S-2	Total/NA	Solid	8015M/D	15655
885-15038-3	S-3	Total/NA	Solid	8015M/D	15655
885-15038-4	S-4	Total/NA	Solid	8015M/D	15655
885-15038-5	S-5	Total/NA	Solid	8015M/D	15655
885-15038-6	S-6	Total/NA	Solid	8015M/D	15655
885-15038-7	S-7	Total/NA	Solid	8015M/D	15655
885-15038-8	S-8	Total/NA	Solid	8015M/D	15655
885-15038-9	S-9	Total/NA	Solid	8015M/D	15655
885-15038-10	S-10	Total/NA	Solid	8015M/D	15655
885-15038-11	S-11	Total/NA	Solid	8015M/D	15655
885-15038-12	S-12	Total/NA	Solid	8015M/D	15655
885-15038-13	S-13	Total/NA	Solid	8015M/D	15655
MB 885-15655/1-A	Method Blank	Total/NA	Solid	8015M/D	15655
LCS 885-15655/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15655
885-15038-1 MS	S-1	Total/NA	Solid	8015M/D	15655
885-15038-1 MSD	S-1	Total/NA	Solid	8015M/D	15655

#### Analysis Batch: 15654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-1	S-1	Total/NA	Solid	8021B	15655
885-15038-2	S-2	Total/NA	Solid	8021B	15655
885-15038-3	S-3	Total/NA	Solid	8021B	15655
885-15038-4	S-4	Total/NA	Solid	8021B	15655
885-15038-5	S-5	Total/NA	Solid	8021B	15655
885-15038-6	S-6	Total/NA	Solid	8021B	15655
885-15038-7	S-7	Total/NA	Solid	8021B	15655
885-15038-8	S-8	Total/NA	Solid	8021B	15655
885-15038-9	S-9	Total/NA	Solid	8021B	15655
885-15038-10	S-10	Total/NA	Solid	8021B	15655
885-15038-11	S-11	Total/NA	Solid	8021B	15655
885-15038-12	S-12	Total/NA	Solid	8021B	15655
885-15038-13	S-13	Total/NA	Solid	8021B	15655
MB 885-15655/1-A	Method Blank	Total/NA	Solid	8021B	15655
LCS 885-15655/3-A	Lab Control Sample	Total/NA	Solid	8021B	15655
885-15038-2 MS	S-2	Total/NA	Solid	8021B	15655
885-15038-2 MSD	S-2	Total/NA	Solid	8021B	15655

#### Prep Batch: 15655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-1	S-1	Total/NA	Solid	5035	
885-15038-2	S-2	Total/NA	Solid	5035	
885-15038-3	S-3	Total/NA	Solid	5035	
885-15038-4	S-4	Total/NA	Solid	5035	
885-15038-5	S-5	Total/NA	Solid	5035	
885-15038-6	S-6	Total/NA	Solid	5035	
885-15038-7	S-7	Total/NA	Solid	5035	
885-15038-8	S-8	Total/NA	Solid	5035	
885-15038-9	S-9	Total/NA	Solid	5035	
885-15038-10	S-10	Total/NA	Solid	5035	
885-15038-11	S-11	Total/NA	Solid	5035	

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

## **GC VOA (Continued)**

### Prep Batch: 15655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-12	S-12	Total/NA	Solid	5035	
885-15038-13	S-13	Total/NA	Solid	5035	
MB 885-15655/1-A Method Blank		Total/NA	Solid	5035	
LCS 885-15655/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-15655/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-15038-1 MS	S-1	Total/NA	Solid	5035	
885-15038-1 MSD	S-1	Total/NA	Solid	5035	
885-15038-2 MS	S-2	Total/NA	Solid	5035	
885-15038-2 MSD	S-2	Total/NA	Solid	5035	

#### **GC Semi VOA**

#### Prep Batch: 15665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
885-15038-1	S-1	Total/NA	Solid	SHAKE	
885-15038-2	S-2	Total/NA	Solid	SHAKE	
885-15038-3	S-3	Total/NA	Solid	SHAKE	
885-15038-4	S-4	Total/NA	Solid	SHAKE	
885-15038-5	S-5	Total/NA	Solid	SHAKE	
885-15038-6	S-6	Total/NA	Solid	SHAKE	
885-15038-7	S-7	Total/NA	Solid	SHAKE	
885-15038-8	S-8	Total/NA	Solid	SHAKE	
885-15038-9	S-9	Total/NA	Solid	SHAKE	
885-15038-10	S-10	Total/NA	Solid	SHAKE	
885-15038-11	S-11	Total/NA	Solid	SHAKE	
885-15038-12	S-12	Total/NA	Solid	SHAKE	
885-15038-13	S-13	Total/NA	Solid	SHAKE	
MB 885-15665/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-15665/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-15038-13 MS	S-13	Total/NA	Solid	SHAKE	
885-15038-13 MSD	S-13	Total/NA	Solid	SHAKE	

#### **Analysis Batch: 15668**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-1	S-1	Total/NA	Solid	8015M/D	15665
885-15038-2	S-2	Total/NA	Solid	8015M/D	15665
885-15038-3	S-3	Total/NA	Solid	8015M/D	15665
885-15038-4	S-4	Total/NA	Solid	8015M/D	15665
885-15038-5	S-5	Total/NA	Solid	8015M/D	15665
885-15038-6	S-6	Total/NA	Solid	8015M/D	15665
MB 885-15665/1-A	Method Blank	Total/NA	Solid	8015M/D	15665
LCS 885-15665/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15665

### Analysis Batch: 15669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-7	S-7	Total/NA	Solid	8015M/D	15665
885-15038-8	S-8	Total/NA	Solid	8015M/D	15665
885-15038-9	S-9	Total/NA	Solid	8015M/D	15665
885-15038-10	S-10	Total/NA	Solid	8015M/D	15665
885-15038-11	S-11	Total/NA	Solid	8015M/D	15665
885-15038-12	S-12	Total/NA	Solid	8015M/D	15665

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

## GC Semi VOA (Continued)

### **Analysis Batch: 15669 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-13	S-13	Total/NA	Solid	8015M/D	15665
885-15038-13 MS	S-13	Total/NA	Solid	8015M/D	15665
885-15038-13 MSD	S-13	Total/NA	Solid	8015M/D	15665

#### **HPLC/IC**

#### Analysis Batch: 15641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-1	S-1	Total/NA	Solid	300.0	15644
885-15038-2	S-2	Total/NA	Solid	300.0	15644
885-15038-3	S-3	Total/NA	Solid	300.0	15644
885-15038-4	S-4	Total/NA	Solid	300.0	15644
885-15038-5	S-5	Total/NA	Solid	300.0	15644
885-15038-6	S-6	Total/NA	Solid	300.0	15644
885-15038-7	S-7	Total/NA	Solid	300.0	15644
885-15038-8	S-8	Total/NA	Solid	300.0	15644
885-15038-9	S-9	Total/NA	Solid	300.0	15644
885-15038-10	S-10	Total/NA	Solid	300.0	15644
885-15038-11	S-11	Total/NA	Solid	300.0	15644
885-15038-12	S-12	Total/NA	Solid	300.0	15644
885-15038-13	S-13	Total/NA	Solid	300.0	15644
MB 885-15644/1-A	Method Blank	Total/NA	Solid	300.0	15644
LCS 885-15644/2-A	Lab Control Sample	Total/NA	Solid	300.0	15644
MRL 885-15641/3	Lab Control Sample	Total/NA	Solid	300.0	
885-15038-12 MS	S-12	Total/NA	Solid	300.0	15644
885-15038-12 MSD	S-12	Total/NA	Solid	300.0	15644

### Prep Batch: 15644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15038-1	S-1	Total/NA	Solid	300_Prep	_
885-15038-2	S-2	Total/NA	Solid	300_Prep	
85-15038-3 S-3		Total/NA	Solid	300_Prep	
85-15038-4 S-4		Total/NA	Solid	300_Prep	
885-15038-5	S-5	Total/NA	Solid	300_Prep	
885-15038-6	S-6	Total/NA	Solid	300_Prep	
885-15038-7	S-7	Total/NA	Solid	300_Prep	
885-15038-8	S-8	Total/NA	Solid	300_Prep	
885-15038-9	S-9	Total/NA	Solid	300_Prep	
885-15038-10	S-10	Total/NA	Solid	300_Prep	
885-15038-11	S-11	Total/NA	Solid	300_Prep	
885-15038-12	S-12	Total/NA	Solid	300_Prep	
885-15038-13	S-13	Total/NA	Solid	300_Prep	
MB 885-15644/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-15644/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-15038-12 MS	S-12	Total/NA	Solid	300_Prep	
885-15038-12 MSD	S-12	Total/NA	Solid	300 Prep	

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Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-1

Client: Ensolum

Lab Sample ID: 885-15038-1

Matrix: Solid

Date Collected: 11/08/24 12:00 Date Received: 11/09/24 07:07

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 19:33
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 19:33
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15668	MI	EET ALB	11/11/24 11:10
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 10:01

Client Sample ID: S-2 Lab Sample ID: 885-15038-2

Date Collected: 11/08/24 12:05 **Matrix: Solid** 

Date Received: 11/09/24 07:07

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17	
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 19:56	
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17	
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 19:56	
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37	
Total/NA	Analysis	8015M/D		1	15668	MI	EET ALB	11/11/24 11:20	
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02	
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 10:11	

Client Sample ID: S-3 Lab Sample ID: 885-15038-3 Date Collected: 11/08/24 12:10

Date Received: 11/09/24 07:07

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 20:19
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 20:19
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15668	MI	EET ALB	11/11/24 11:31
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 10:21

Client Sample ID: S-4 Lab Sample ID: 885-15038-4

Date Collected: 11/08/24 12:15 Date Received: 11/09/24 07:07

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 20:43

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**Matrix: Solid** 

Released to Imaging: 3/14/2025 11:17:46 AM

**Matrix: Solid** 

Client Sample ID: S-4

Client: Ensolum

Date Collected: 11/08/24 12:15 Date Received: 11/09/24 07:07

Lab Sample ID: 885-15038-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 20:43
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15668	MI	EET ALB	11/11/24 11:41
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 10:32

Lab Sample ID: 885-15038-5

Date Collected: 11/08/24 12:20 Date Received: 11/09/24 07:07

Client Sample ID: S-5

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 21:06
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 21:06
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15668	MI	EET ALB	11/11/24 11:52
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 10:42

Client Sample ID: S-6

Date Collected: 11/08/24 12:25

Date Received: 11/09/24 07:07

Lab Sample ID: 885-15038-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 21:30
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 21:30
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15668	MI	EET ALB	11/11/24 12:03
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 11:13

Client Sample ID: S-7 Lab Sample ID: 885-15038-7

Date Collected: 11/08/24 12:30 **Matrix: Solid** Date Received: 11/09/24 07:07

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Type Run Factor Number Analyst Lab Total/NA 5035 15655 JP EET ALB 11/10/24 17:17 Prep Total/NA 8015M/D 11/10/24 21:53 Analysis 15653 JP **EET ALB** 1 Total/NA Prep 5035 15655 JP **EET ALB** 11/10/24 17:17 EET ALB 11/10/24 21:53 Total/NA 8021B 15654 JP Analysis

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

Client Sample ID: S-7

Lab Sample ID: 885-15038-7 Date Collected: 11/08/24 12:30

Matrix: Solid

Date Received: 11/09/24 07:07

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15669	MI	EET ALB	11/11/24 10:39
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 11:23

Client Sample ID: S-8 Lab Sample ID: 885-15038-8

**Matrix: Solid** 

Date Collected: 11/08/24 12:35 Date Received: 11/09/24 07:07

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 22:16
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 22:16
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15669	MI	EET ALB	11/11/24 10:51
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 11:34

Client Sample ID: S-9 Lab Sample ID: 885-15038-9

**Matrix: Solid** 

Date Collected: 11/08/24 12:40 Date Received: 11/09/24 07:07

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 22:40
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 22:40
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15669	MI	EET ALB	11/11/24 11:03
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 11:44

**Client Sample ID: S-10** Lab Sample ID: 885-15038-10 Date Collected: 11/08/24 12:45

Date Received: 11/09/24 07:07

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 23:03
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 23:03
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15669	MI	EET ALB	11/11/24 11:15

Client Sample ID: S-10

Client: Ensolum

Lab Sample ID: 885-15038-10

Matrix: Solid

Date Collected: 11/08/24 12:45 Date Received: 11/09/24 07:07

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 11:55

Lab Sample ID: 885-15038-11

Matrix: Solid

Date Collected: 11/08/24 12:50 Date Received: 11/09/24 07:07

Client Sample ID: S-11

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035		- <del></del> -	15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/10/24 23:50
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/10/24 23:50
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15669	MI	EET ALB	11/11/24 11:27
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 12:05

Client Sample ID: S-12 Lab Sample ID: 885-15038-12

Matrix: Solid

Date Collected: 11/08/24 12:55 Date Received: 11/09/24 07:07

Batch Batch Dilution Prepared Batch **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA 5035 15655 JP EET ALB 11/10/24 17:17 Prep Total/NA 11/11/24 00:13 8015M/D Analysis 15653 JP **EET ALB** 1 Total/NA Prep 5035 15655 **EET ALB** 11/10/24 17:17 Total/NA Analysis 8021B 15654 JP **EET ALB** 11/11/24 00:13 1 Total/NA SHAKE **EET ALB** 11/11/24 08:37 Prep 15665 Total/NA 8015M/D **EET ALB** 11/11/24 11:39 Analysis 1 15669 MI Total/NA 300 Prep **EET ALB** 11/09/24 09:02 Prep 15644 MA 11/09/24 12:15 Total/NA Analysis 300.0 20 15641 JT **EET ALB** 

Client Sample ID: S-13 Lab Sample ID: 885-15038-13

Date Collected: 11/08/24 13:00

Date Received: 11/09/24 07:07

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035		- <del></del>	15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8015M/D		1	15653	JP	EET ALB	11/11/24 00:36
Total/NA	Prep	5035			15655	JP	EET ALB	11/10/24 17:17
Total/NA	Analysis	8021B		1	15654	JP	EET ALB	11/11/24 00:36
Total/NA	Prep	SHAKE			15665	MI	EET ALB	11/11/24 08:37
Total/NA	Analysis	8015M/D		1	15669	MI	EET ALB	11/11/24 11:51
Total/NA	Prep	300_Prep			15644	MA	EET ALB	11/09/24 09:02
Total/NA	Analysis	300.0		20	15641	JT	EET ALB	11/09/24 12:46

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### **Lab Chronicle**

Client: Ensolum

Project/Site: Schwerdtsferger ALS #10A

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Job ID: 885-15038-1

# **Accreditation/Certification Summary**

Client: Ensolum Job ID: 885-15038-1

Project/Site: Schwerdtsferger ALS #10A

**Laboratory: Eurofins Albuquerque** 

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

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Eurofins Albuquerque

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ANALYSIS LABO  www.hallenvironmental.com  4901 Hawkins NE - Albuquerque, NM 87 885-15038 coc  Tel. 505-345-3975 Fax 505-345-4107  Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	at by the state of
4901 H; Tel. 50	BTEX / MTBE / TRR(\$ (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's	Remarks:
Turn-Around Time:	Project Manager:  **Lange	
Chain-of-Custody Record  Client: Enselve  Mailing Address: 606 S R. 10 Glande  Scit R 87410  Phone #:	email or Fax#:  QA/QC Package:  □ Standard  Accreditation: □ NELAC □ Other □ EDD (Type) □ EDD (Type) □ EDD (Type) □ EDD (Type)	1300   S   S   Y   Oct Jac   Wol   S   S   S   S   S   S   S   S   S

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**ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report save Day 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 CI, 天 配 MO3. 1000 (pop) \$50¢ Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) Though 8081 Pesticides/8082 PCB's Remarks: TPH:8015D(GRO / DRO / MRO) MHSE / TMB's (8021) Nates / (၁,) Schweidtfeiger ALS 10A Project#: 1721 he/8/11 t Sign Time HEAL No. 4 Rush 11-11-34 11/9/24 Cooler Temp(including CF): 1.1 +6.1 = 1.2 2 & Summary Preservative Via: Councy Turn-Around Time: Type ≤iä: Project Manager: Project Name: □ Standard # of Coolers: Type and # Container Sampler: Secentred by eceived by On Ice: 402 ☐ Level 4 (Full Validation) Chain-of-Custody Record Sample Name MA-Ward □ Az Compliance Relinquished by □ Other Matrix Mailing Address: 3 QA/QC Package: 202/ Time EDD (Type) email or Fax#: Accreditation: ime: □ Standard □ NELAC Phone #: Client: Page 33 of 34

## **Login Sample Receipt Checklist**

Client: Ensolum Job Number: 885-15038-1

Login Number: 15038 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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.	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").	True	

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410
Generated 1/28/2025 10:19:13 AM

# **JOB DESCRIPTION**

Schwerdtferger ALS #10A

# **JOB NUMBER**

885-18770-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

## **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

# **Authorization**

Generated 1/28/2025 10:19:13 AM

Authorized for release by John Caldwell, Project Manager john.caldwell@et.eurofinsus.com (505)345-3975

Page 2 of 14

Client: Ensolum Laboratory Job ID: 885-18770-1

Project/Site: Schwerdtferger ALS #10A

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## **Definitions/Glossary**

Client: Ensolum Job ID: 885-18770-1

Project/Site: Schwerdtferger ALS #10A

**Glossary** 

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum 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 **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Ensolum Job ID: 885-18770-1

Project: Schwerdtferger ALS #10A

Job ID: 885-18770-1 Eurofins Albuquerque

#### Job Narrative 885-18770-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The sample was received on 1/23/2025 8:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

#### Gasoline Range Organics

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

#### **GC VOA**

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

#### **Diesel Range Organics**

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.

**Eurofins Albuquerque** 

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## **Client Sample Results**

Client: Ensolum Job ID: 885-18770-1

Project/Site: Schwerdtferger ALS #10A

Client Sample ID: BF-1

Analyte

Chloride

Lab Sample ID: 885-18770-1

Matrix: Solid

Dil Fac

20

Analyzed

01/24/25 10:07

Date Collected: 01/22/25 10:30 Date Received: 01/23/25 08:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		4.9	mg/Kg		01/23/25 09:35	01/24/25 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			01/23/25 09:35	01/24/25 13:45	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		01/23/25 09:35	01/24/25 13:45	1
Ethylbenzene	ND		0.049	mg/Kg		01/23/25 09:35	01/24/25 13:45	1
Toluene	ND		0.049	mg/Kg		01/23/25 09:35	01/24/25 13:45	1
Xylenes, Total	ND		0.098	mg/Kg		01/23/25 09:35	01/24/25 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			01/23/25 09:35	01/24/25 13:45	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10		9.9	mg/Kg		01/23/25 10:00	01/23/25 15:14	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		01/23/25 10:00	01/23/25 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			01/23/25 10:00	01/23/25 15:14	1

RL

60

Unit

mg/Kg

Prepared

01/24/25 07:35

Result Qualifier

Prep Batch: 19727

Prep Batch: 19727

Job ID: 885-18770-1 Client: Ensolum

Project/Site: Schwerdtferger ALS #10A

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-19727/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 19810** 

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac GRO (C6-C10) ND 5.0 mg/Kg 01/23/25 09:35 01/24/25 13:01

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 91 35 - 166 01/23/25 09:35 01/24/25 13:01

Lab Sample ID: LCS 885-19727/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 19810** 

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec

Analyte Limits GRO (C6-C10) 25.0 19.7 mg/Kg 79 70 - 130

LCS LCS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 183 35 - 166

Method: 8021B - Volatile Organic Compounds (GC)

Client Sample ID: Method Blank Lab Sample ID: MB 885-19727/1-A

**Matrix: Solid** 

Prep Type: Total/NA **Analysis Batch: 19811** Prep Batch: 19727 MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac ND 0.025 01/23/25 09:35 01/24/25 13:01 Benzene mg/Kg Ethylbenzene ND 0.050 01/23/25 09:35 01/24/25 13:01 mg/Kg 01/24/25 13:01 Toluene ND 0.050 mg/Kg 01/23/25 09:35

ND 0.10 01/23/25 09:35 01/24/25 13:01 Xylenes, Total mg/Kg MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 01/23/25 09:35 4-Bromofluorobenzene (Surr) 94 48 - 145 01/24/25 13:01

Lab Sample ID: LCS 885-19727/3-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 19811 Prep Batch: 19727

LCS LCS Spike %Rec Analyte Added Qualifier Unit %Rec Limits Result 1.00 0.937 94 70 - 130 Benzene mg/Kg 0.958 Ethylbenzene 1.00 mg/Kg 96 70 - 130 Toluene 1.00 0.933 mg/Kg 93 70 - 130 Xylenes, Total 3.00 2.82 mg/Kg 94 70 - 130

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 98 48 - 145

Client: Ensolum Job ID: 885-18770-1

Project/Site: Schwerdtferger ALS #10A

Lab Sample ID: 885-18770-1 MS

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

**Matrix: Solid** Analysis Batch: 19811

Client Sample ID: BF-1 Prep Type: Total/NA Prep Batch: 19727

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	ND		0.983	0.931		mg/Kg		95	70 - 130
Ethylbenzene	ND		0.983	0.981		mg/Kg		100	70 - 130
Toluene	ND		0.983	0.963		mg/Kg		98	70 - 130
Xylenes, Total	ND		2.95	2.92		mg/Kg		99	70 - 130
	MS	MS							

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 98 48 - 145

Lab Sample ID: 885-18770-1 MSD

**Matrix: Solid** 

Client Sample ID: BF-1 Prep Type: Total/NA

Analysis Batch: 19811									Prep	Batch:	19727
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.973	0.945	-	mg/Kg		97	70 - 130	1	20
Ethylbenzene	ND		0.973	0.974		mg/Kg		100	70 - 130	1	20
Toluene	ND		0.973	0.950		mg/Kg		98	70 - 130	1	20
Xylenes, Total	ND		2.92	2.90		mg/Kg		99	70 - 130	1	20
	MSD	MSD									

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 99 48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-19717/1-A

**Matrix: Solid** 

**Analysis Batch: 19714** 

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

Prep Batch: 19717

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		01/23/25 08:19	01/23/25 09:55	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		01/23/25 08:19	01/23/25 09:55	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Di-n-octyl phthalate (Surr) 93 62 - 134 01/23/25 08:19 01/23/25 09:55

Lab Sample ID: LCS 885-19717/2-A

**Matrix: Solid** 

Analysis Batch: 19714

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

Prep Batch: 19717

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits **Diesel Range Organics** 50.0 49.3 mg/Kg 99 60 - 135

[C10-C28]

LCS LCS Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 88 62 - 134

## QC Sample Results

Client: Ensolum Job ID: 885-18770-1

Project/Site: Schwerdtferger ALS #10A

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-19786/1-A Client Sample ID: Method Blank

Matrix: Solid
Analysis Batch: 19784

MB MB

Prep Type: Total/NA
Prep Batch: 19786

 Analyte
 Result Chloride
 Qualifier
 RL ND
 Unit mg/Kg
 D Prepared O1/24/25 07:35
 Analyzed Analyzed Oil Pac O1/24/25 08:19
 D OII Fac OII Pac OII Pac

Lab Sample ID: LCS 885-19786/3-A

Matrix: Solid

Analysis Batch: 19784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19786

Spike LCS LCS %Rec Added Result Qualifier Analyte Unit D %Rec Limits Chloride 15.0 15.2 mg/Kg 101 90 - 110

Lab Sample ID: MRL 885-19786/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 19784 Prep Batch: 19786

 Analyte
 Added Chloride
 Result Nesult No.
 Qualifier Unit Mg/L
 Unit Unit No.
 D Nec Nec Limits No.

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Client: Ensolum Job ID: 885-18770-1

Project/Site: Schwerdtferger ALS #10A

**GC VOA** 

Prep Batch: 19727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18770-1	BF-1	Total/NA	Solid	5030C	
MB 885-19727/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-19727/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-19727/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-18770-1 MS	BF-1	Total/NA	Solid	5030C	
885-18770-1 MSD	BF-1	Total/NA	Solid	5030C	

Analysis Batch: 19810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18770-1	BF-1	Total/NA	Solid	8015M/D	19727
MB 885-19727/1-A	Method Blank	Total/NA	Solid	8015M/D	19727
LCS 885-19727/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19727

Analysis Batch: 19811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18770-1	BF-1	Total/NA	Solid	8021B	19727
MB 885-19727/1-A	Method Blank	Total/NA	Solid	8021B	19727
LCS 885-19727/3-A	Lab Control Sample	Total/NA	Solid	8021B	19727
885-18770-1 MS	BF-1	Total/NA	Solid	8021B	19727
885-18770-1 MSD	BF-1	Total/NA	Solid	8021B	19727

#### **GC Semi VOA**

Analysis Batch: 19714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18770-1	BF-1	Total/NA	Solid	8015M/D	19717
MB 885-19717/1-A	Method Blank	Total/NA	Solid	8015M/D	19717
LCS 885-19717/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19717

Prep Batch: 19717

Lab Sample ID 885-18770-1	Client Sample ID BF-1	Prep Type Total/NA	Matrix Solid	Method SHAKE	Prep Batch
MB 885-19717/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-19717/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

#### HPLC/IC

Analysis Batch: 19784

Lab Sample ID 885-18770-1	Client Sample ID BF-1	Prep Type Total/NA	Solid	Method 300.0	Prep Batch 19786
MB 885-19786/1-A	Method Blank	Total/NA	Solid	300.0	19786
LCS 885-19786/3-A	Lab Control Sample	Total/NA	Solid	300.0	19786
MRL 885-19786/2-A	Lab Control Sample	Total/NA	Solid	300.0	19786

Prep Batch: 19786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18770-1	BF-1	Total/NA	Solid	300_Prep	
MB 885-19786/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-19786/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
MRL 885-19786/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

### **Lab Chronicle**

Client: Ensolum Job ID: 885-18770-1

Project/Site: Schwerdtferger ALS #10A

**Client Sample ID: BF-1** 

Lab Sample ID: 885-18770-1 Date Collected: 01/22/25 10:30

Matrix: Solid Date Received: 01/23/25 08:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			19727	JP	EET ALB	01/23/25 09:35
Total/NA	Analysis	8015M/D		1	19810	JP	EET ALB	01/24/25 13:45
Total/NA	Prep	5030C			19727	JP	EET ALB	01/23/25 09:35
Total/NA	Analysis	8021B		1	19811	JP	EET ALB	01/24/25 13:45
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 10:00
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 15:14
Total/NA	Prep	300_Prep			19786	RC	EET ALB	01/24/25 07:35
Total/NA	Analysis	300.0		20	19784	RC	EET ALB	01/24/25 10:07

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

# **Accreditation/Certification Summary**

Client: Ensolum Job ID: 885-18770-1

Project/Site: Schwerdtferger ALS #10A

**Laboratory: Eurofins Albuquerque** 

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Oregon	NELAP	NM100001	02-25-25

*oj 107* 

## **Login Sample Receipt Checklist**

Client: Ensolum Job Number: 885-18770-1

Login Number: 18770 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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.	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").	True	

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Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS

Action 431166

#### **QUESTIONS**

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	431166
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2431143123	
Incident Name	NAPP2431143123 SCHWERDTSFERGER ALS #10A @ 0	
Incident Type	Natural Gas Release	
Incident Status	Reclamation Report Received	

Location of Release Source				
Please answer all the questions in this group.				
Site Name	SCHWERDTSFERGER ALS #10A			
Date Release Discovered	11/06/2024			
Surface Owner	Federal			

ncident Details				
Please answer all the questions in this group.				
Incident Type	Natural Gas Release			
Did this release result in a fire or is the result of a fire	No			
Did this release result in any injuries	No			
Has this release reached or does it have a reasonable probability of reaching a watercourse	No			
Has this release endangered or does it have a reasonable probability of endangering public health	No			
Has this release substantially damaged or will it substantially damage property or the environment	No			
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No			

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Condensate   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.	
Natural Gas Vented (Mcf) Details	Cause: Corrosion   Pipeline (Any)   Natural Gas Vented   Released: 0 MCF   Recovered: 0 MCF   Lost: 0 MCF.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

General Information
Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 2

Action 431166

QUESTIONS (continued)

Q0E011	one (continued)	
Operator:	OGRID: 241602	
Enterprise Field Services, LLC PO Box 4324	Action Number:	
Houston, TX 77210	431166	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
In Wal Day		
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s  The source of the release has been stopped		
	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 11/12/2024	

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 3

Action 431166

**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	431166
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)	
What method was used to determine the depth to ground water	OCD Imaging Records Lookup	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Zero feet, overlying, or within area	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan app	proval with this submission	Yes
Attach a comprehensive report demonstration	ng the lateral and vertical extents of soil contamination as	sociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents	of contamination been fully delineated	Yes
Was this release entirely contained	within a lined containment area	No
Soil Contamination Sampling: (Provide	de the highest observable value for each, in millig	rams per kilograms.)
Chloride (E	EPA 300.0 or SM4500 Cl B)	60
TPH (GRO+DRO+MRO) (EF	PA SW-846 Method 8015M)	0.1
GRO+DRO (I	EPA SW-846 Method 8015M)	14.1
BTEX (I	EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (	EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the ren	nediation commence	11/06/2024
On what date will (or did) the final s	ampling or liner inspection occur	11/08/2024
On what date will (or was) the reme	ediation complete(d)	11/08/2024
What is the estimated surface area	(in square feet) that will be reclaimed	540
What is the estimated volume (in cu	ubic yards) that will be reclaimed	444
What is the estimated surface area (in square feet) that will be remediated		540
What is the estimated volume (in cubic yards) that will be remediated 4		444
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 4

Action 431166

**QUESTIONS** (continued)

ı	Operator:	OGRID:
ı	Enterprise Field Services, LLC	241602
ı	PO Box 4324	Action Number:
ı	Houston, TX 77210	431166
ı		Action Type:
ı		[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

4020110110	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	ENVIROTECH LANDFARM #2 [fEEM0112336756]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC. which includes the anticipated timelines for beginning and completing the remediation.

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.

Name: Thomas Long Title: Sr Field Environmental Scientist I hereby agree and sign off to the above statement Email: tjlong@eprod.com Date: 02/12/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 431166

**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	431166
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 431166

**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	431166
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	421741
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/22/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	540
What was the total volume (cubic yards) remediated	444
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	540
What was the total volume (in cubic yards) reclaimed	444
Summarize any additional remediation activities not included by answers (above)	None

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 (in .pdf format) 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.

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.

Name: Thomas Long
I hereby agree and sign off to the above statement
I hereby agree and sign off to the above statement
Email: tjlong@eprod.com
Date: 02/12/2025

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

QUESTIONS, Page 7

Action 431166

**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324 Houston, TX 77210	Action Number:
	431166
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	540
What was the total volume of replacement material (in cubic yards) for this site	444
	of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	07/01/2025
Summarize any additional reclamation activities not included by answers (above)	None
	reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form nt field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 repo	whowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface not does not relieve the operator of responsibility for compliance with any other federal, state, or titially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ding notification to the OCD when reclamation and re-vegetation are complete.
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 02/12/2025

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

QUESTIONS, Page 8

Action 431166

**QUESTIONS** (continued)

Operator:	OGRID:	
Enterprise Field Services, LLC	241602	
PO Box 4324	Action Number:	
Houston, TX 77210	431166	
	Action Type:	
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

#### QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.		

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

CONDITIONS

Action 431166

#### **CONDITIONS**

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	431166
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### CONDITIONS

Created By		Condition Date
scott.rodgers	We have received your Remediation Closure/Reclamation Report for Incident #NAPP2431143123, thank you. This Remediation Closure/Reclamation Report is approved.	3/14/2025