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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

			resp		J	
Responsible	Party: <b>Ente</b>	rprise Field Ser	vices, LLC	OGRID: 2	241602	
Contact Name: Thomas Long Contact			Contact T	elephone: <b>505-5</b>	599-2286	
Contact emai	il:tjlong@e <sub>l</sub>	orod.com		Incident #	(assigned by OCD)	nAPP2228430992
Contact mail <b>87401</b>	ing address:	614 Reilly Ave,	Farmington, NN	<b>1</b>		
			Location	of Release S	ource	
Latitude <b>36.6</b>	348466		Longitude	-107.88401	(NAL	0 83 in decimal degrees to 5 decimal places)
Site Name La	iteral 2B-2	4		Site Type	Natural Gas G	athering Pipeline
Date Release	Discovered:	10/10/2022		Serial Nur	mber (if applicable)	: N/A
Unit Letter	Section	Township	Range	Cou	nty	]
F	22	28N	10W	San J	luan	
Surface Owner	r: State	⊠ Federal □ Tr	ibal Private (N	Jame <u>: <b>BLM</b></u>		)
			Nature and	Volume of	Release	
				calculations or specific		volumes provided below)
Crude Oil		Volume Release			Volume Recovered (bbls)	
Produced Water Volume Released (bbls)			Volume Recovered (bbls)			
Is the concentration of dissolved chloride produced water >10,000 mg/l?		nloride in the	Yes N	0		
☐ Condensate Volume Released (bbls): <b>5 BBLS</b>			Volume Reco	vered (bbls): None		
Natural Gas Volume Released (Mcf): 47.49 MCF		CF	Volume Reco	vered (Mcf): None		
Other (describe) Volume/Weight Released (provide units):		units):	Volume/Weig	ght Recovered (provide units)		
Cause of Re	lease On O	ctober 10 2022 F	Enterprise had a re	elease of natural	gas from the La	ateral 2B-24 The pipeline was isolated

depressurized, locked and tagged out. Approximately two barrels of release liquids were observed on the ground surface. No emergency services responded. No fire nor injuries occurred. The release occurred in a small ephemeral wash (blue line on a Topo). The remediation was completed on October 18, 2022. The final excavation dimensions measured approximately 14 feet long by 9 feet wide by 6 feet deep. A total of 56 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD)

approved land farm. A third party closure report is included with this "Final." C-141.

Page 2 of 70

Incident ID	
District RP	
Facility ID	
Application ID	

### Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NM	IAC
Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection)	e liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC Distr	rict office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complete to tand regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-1 should their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a C-1 compliance with any other federal, state, or local laws and/or regulations. restore, reclaim, and re-vegetate the impacted surface area to the conditionaccordance with 19.15.29.13 NMAC including notification to the OCD we	Al report by the OCD does not relieve the operator of liability the contamination that pose a threat to groundwater, surface water, all report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially that existed prior to the release or their final land use in
Printed Name: Thomas Long Title: 5	Senior Environmental Scientist
Signature:	Date: <u>6-12-2023</u>
email: tjlong@eprod.com Telephor	ne <u>: (505) 599-2286</u>
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party of lial remediate contamination that poses a threat to groundwater, surface water, party of compliance with any other federal, state, or local laws and/or reg	human health, or the environment nor does not relieve the responsible
Closure Approved by: Velson Velez  Printed Name: Nelson Velez	Date:06/13/2023
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv



### **CLOSURE REPORT**

Property:

Lateral 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2228430992

December 5, 2022

Ensolum Project No. 05A1226219

Prepared for:

**Enterprise Field Services, LLC** 

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

Prepared by:

Ranee Deechilly Project Manager Kyle Summers

Senior Managing Geologist

Enterprise Field Services, LLC Lateral 2B-24 (10/10/22)

		TABLE OF CONTENTS			
1.0	1.1 Site	UCTION  Description & Background  ject Objective	1		
2.0	CLOSUR	CLOSURE CRITERIA1			
3.0	SOIL RE	MEDIATION ACTIVITIES	3		
4.0	SOIL SA	MPLING PROGRAM	3		
5.0	SOIL LA	BORATORY ANALYTICAL METHODS	4		
6.0	SOIL DA	TA EVALUATION	4		
7.0	RECLAN	NATION AND REVEGETATION	5		
8.0	FINDING	S AND RECOMMENDATION	5		
9.0	9.1 Standard of Care				
		LIST OF APPENDICES			
Appe	ndix A –	Figures Figure 1: Topographic Map Figure 2: Site Vicinity Map Figure 3: Site Map with Soil Analytical Results			
Appe	ndix B –	Siting Figures and Documentation Figure A: 1.0 Mile Radius Water Well/POD Location Map Figure B: Cathodic Protection Well Recorded Depth to Water Figure C: 300 Foot Radius Watercourse and Drainage Identification Figure D: 300 Foot Radius Occupied Structure Identification Figure E: Water Well and Natural Spring Location Figure F: Wetlands Figure G: Mines, Mills, and Quarries Figure H: 100-Year Flood Plain Map			
Appe	ndix C –	Executed C-138 Solid Waste Acceptance Form			
Appe	ndix D –	Photographic Documentation			
Appe	ndix E –	Regulatory Correspondence			
Appe	ndix F –	Table 1 - Soil Analytical Summary			
Appe	ndix G –	Laboratory Data Sheets & Chain of Custody Documentation			



#### 1.0 INTRODUCTION

### 1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 2B-24 (10/10/22) (Site)
NM EMNRD OCD Incident ID No.	NAPP2228430992
Location:	36.648466° North, 107.884401° West Unit Letter F, Section 22, Township 28 North, Range 10 West San Juan County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On October 10, 2022, Enterprise identified a release of natural gas from the Lateral 2B-24 pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On October 14, 2022, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact.

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 New Mexico EMNRD OCD. 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, during the evaluation and remediation of the Site. 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). One POD (SJ-04072-POD1) with a recorded depth to water was identified in the adjacent Public Land Survey System (PLSS) section (Figure A, Appendix B). The depth to water for this POD is approximately 470 feet below grade surface (bgs). This POD is located approximately 0.6 miles northwest of the Site and is approximately 55 feet higher in elevation than the Site.
- Six cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site and in adjacent sections. The CPWs are



Lateral 2B-24 (10/10/22)

depicted on Figure B (Appendix B). Documentation for the cathodic protection well located near the Kutz Canyon #500 well location indicates a depth to water of approximately 200 feet bgs. This cathodic protection well is located approximately 0.39 miles south of the Site and is approximately 85 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Cain #11E well location indicates a depth to water of approximately 180 feet bgs. This cathodic protection well is located approximately 0.65 miles north of the Site and is approximately 75 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Kutz Deep Test #1 well location indicates a depth to water of approximately 110 feet bgs. This cathodic protection well is located approximately 0.82 miles southwest of the Site and is approximately 150 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the McClanahan A#1, A#2, & A#3 well locations indicates a depth to water of approximately 155 feet bgs. This cathodic protection well is located approximately 0.86 miles east of the Site and is approximately 164 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the McClanahan #550, 15, & 9 well locations indicates a depth to water of approximately 310 feet bgs. This cathodic protection well is located approximately 1.07 miles northeast of the Site and is approximately 175 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the McClanahan #19E well location indicates a depth to water of approximately 130 feet bgs. This cathodic protection well is located approximately 1.34 miles northeast of the Site and is approximately 75 feet lower in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).
- 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).
- 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, the applicable 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 October 14, 2022, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final pipeline excavation measured approximately 14 feet long and 9 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 6 feet bgs. The flow path excavation measured approximately 34 feet long and 5 feet wide, with an approximate depth of 1 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sand underlain by weathered sandstone.

Approximately 56 cubic yards (yd³) of petroleum hydrocarbon-affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, 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 topography.

**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 five composite soil samples (S-1 through S-5) from the pipeline excavation for laboratory analysis. In addition, three composite soil samples (FP-1 through FP-3) were collected from the flow path excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand



<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).

Page 4

tools or the excavator bucket were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

### First Sampling Event

On October 14, 2022, the first sampling event 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 S-1 (6') was collected from floor of the excavation. Composite soil samples S-2 (0'-6'), S-3 (0'-6'), S-4 (0'-6'), and S-5 (0'-6') were collected from the walls of the excavation. Composite soil sample FP-1 (0.25') was collected from the flow path. Subsequent soil analytical results identified COC concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample FP-1. In response to the exceedances the flow path was further excavated. Impacted soil associated with sample FP-1 was removed by excavation and transported to the landfarm for disposal/remediation.

### **Second Sampling Event**

On October 18, 2022, a second sampling event was performed. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples FP-2 (0.25' to 1') and FP-3 (0.25' to 1') were collected from the flow path excavation to replace sample FP-1 that had exceeded closure criteria standards.

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 Hall Environmental Analysis Laboratory 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 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-5, FP-2, and FP-3) to the Tier I NM EMNRD OCD closure criteria. The impacted soil associated with composite soil sample FP-1 was removed from the Site, and therefore, is not included in the following discussion. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for all composite soil samples collected from soils remaining at the Site 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 mg/kg.
- The laboratory analytical results for all composite soil samples collected from soils remaining
  at the Site 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 all composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for composite soil samples FP-2, S-1, S-2, and S-5 indicate chloride concentration of 89 mg/kg, 160 mg/kg, 95 mg/kg, and 83 mg/kg, respectively, which are below the NM EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg.

#### 7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding topography. Enterprise will re-seed the Site with an approved seeding mixture.

### 8.0 FINDINGS AND RECOMMENDATION

- Eight composite soil samples were collected from the Site. Based on laboratory analytical results for soils remaining at the Site, benzene, total BTEX, combined TPH GRO/DRO/MRO, and chloride concentrations are below the New Mexico EMNRD OCD closure criteria.
- Approximately 56 yd<sup>3</sup> of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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

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

### 9.1 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).

### 9.2 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



Enterprise Field Services, LLC Lateral 2B-24 (10/10/22)

Page 6

at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

### 9.3 Reliance

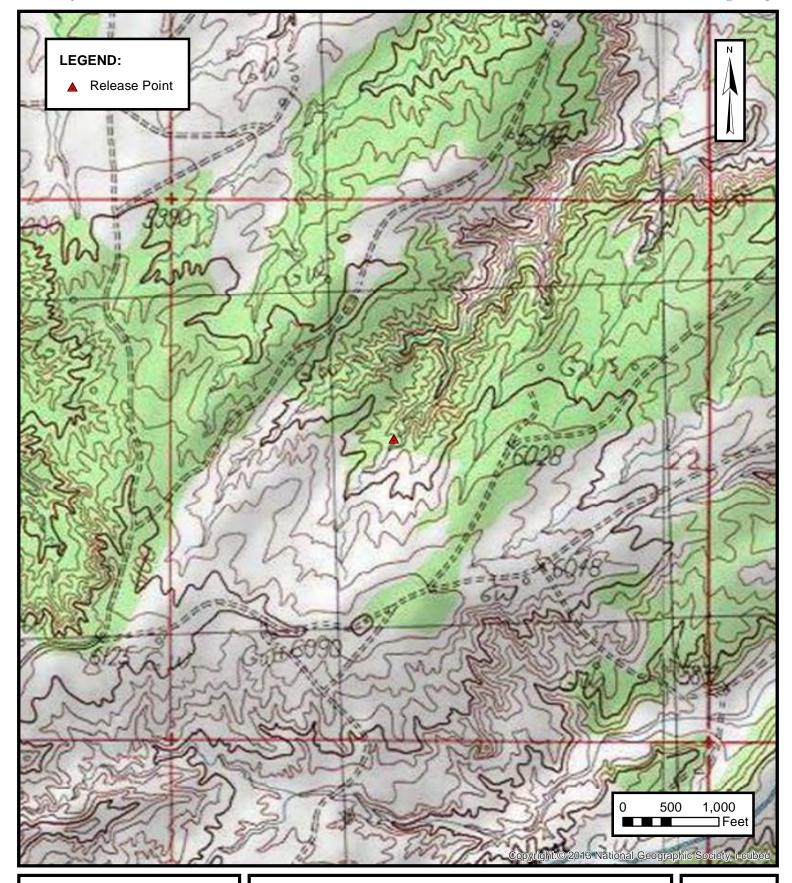
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution 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 the Closure 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** 





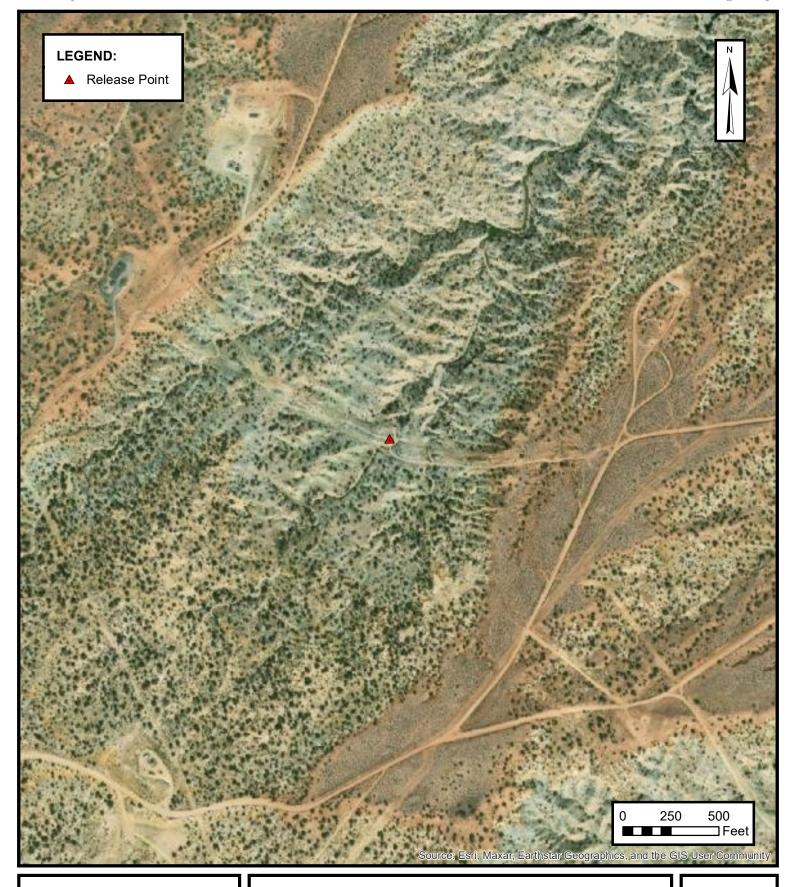
### **TOPOGRAPHIC MAP**

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

**FIGURE** 

1





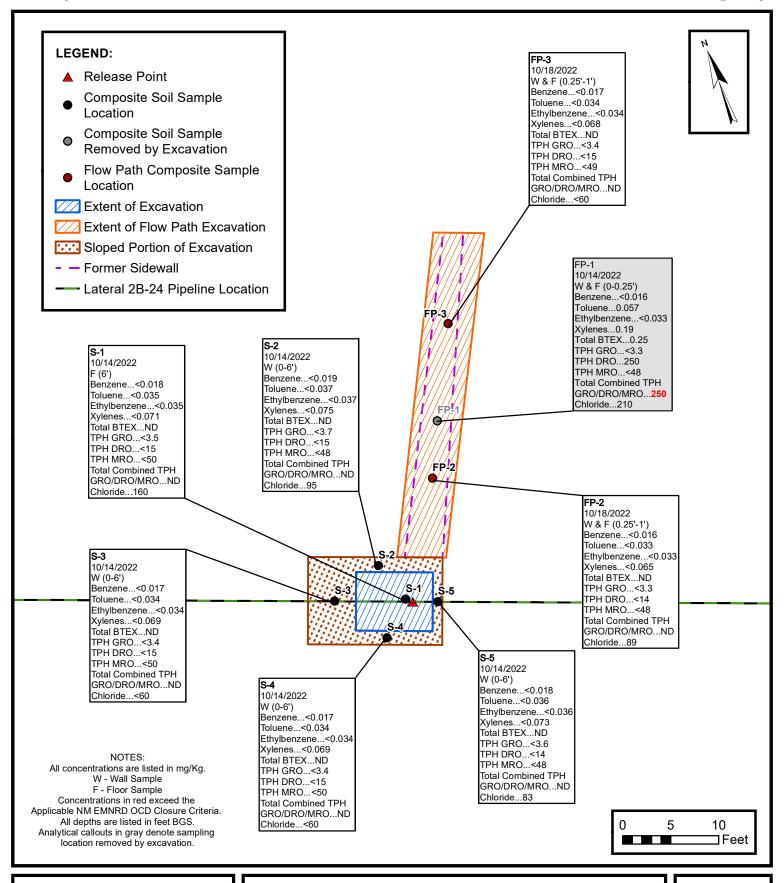
### SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

FIGURE

2





#### SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico

Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

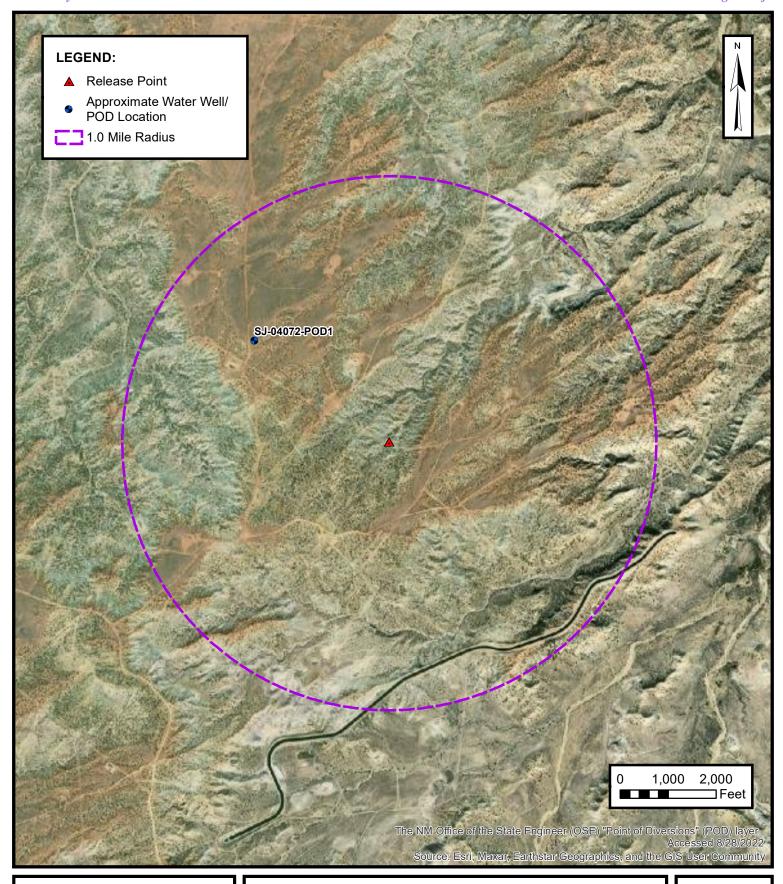
FIGURE

3



### **APPENDIX B**

Siting Figures and Documentation





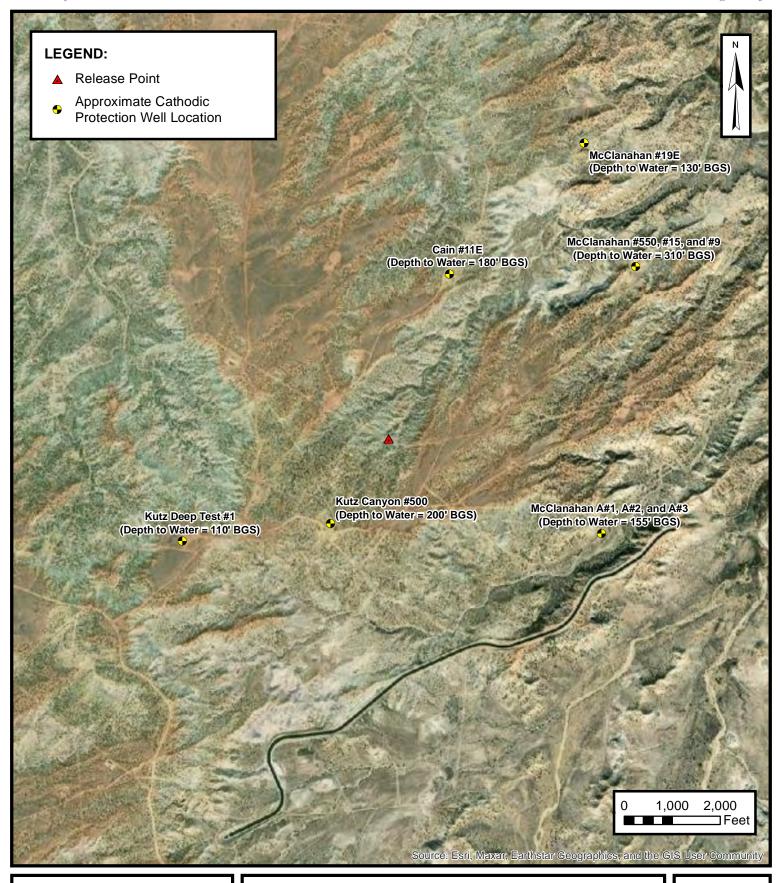
### 1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

FIGURE

Α





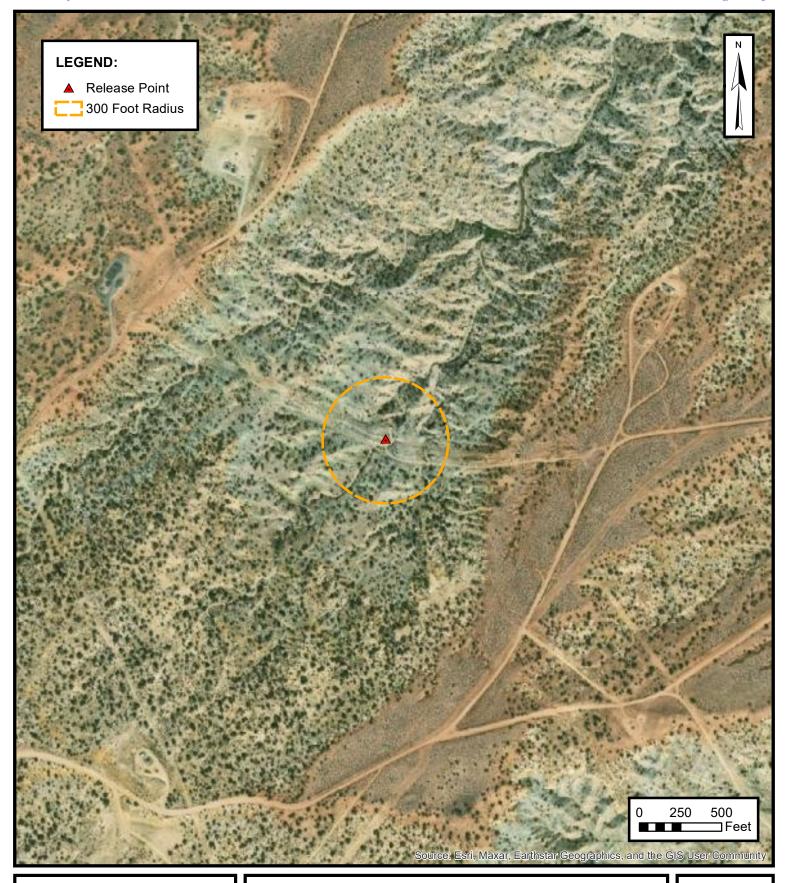
### CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

**FIGURE** 

B





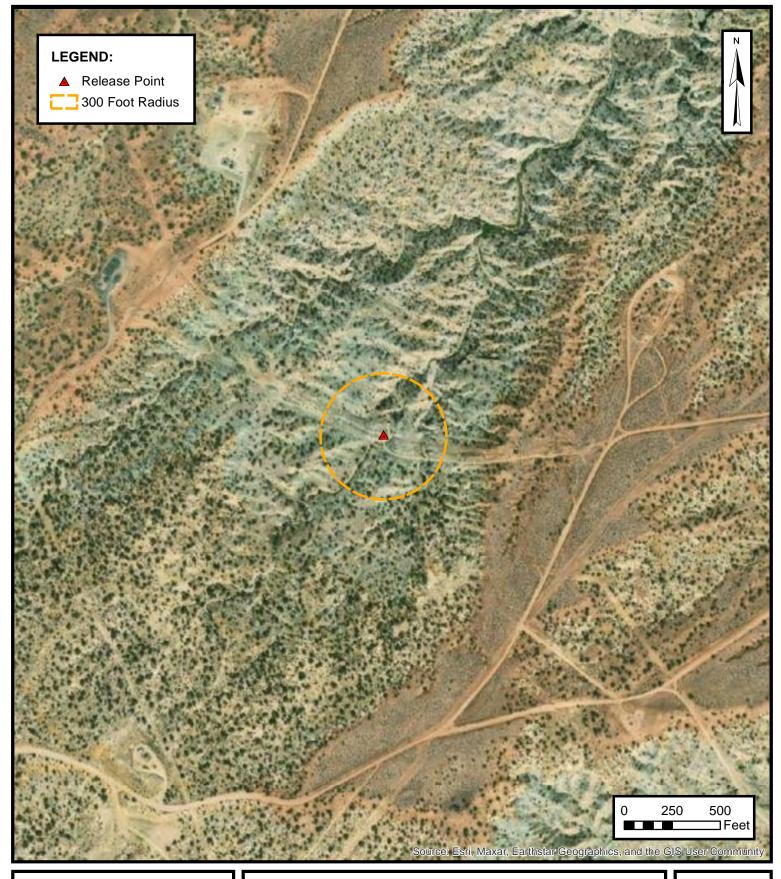
### 300 FOOT RADIUS WATERCOURSE AND DRAINAGE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

**FIGURE** 

C





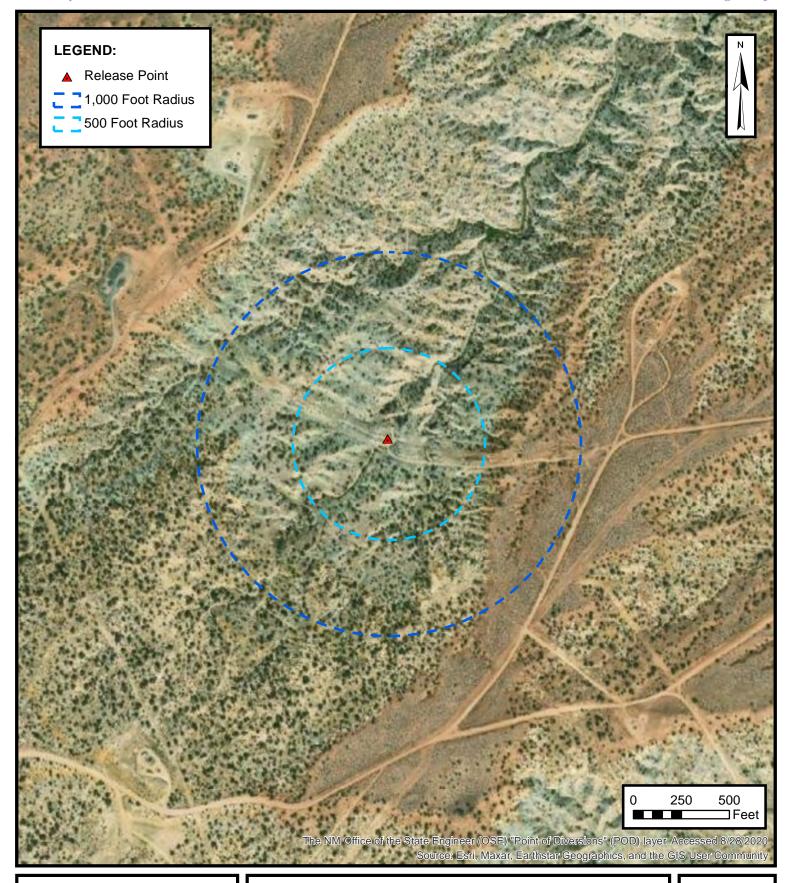
### 300 FOOT RADIUS OCCUPIED STRUCTURE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

FIGURE

D





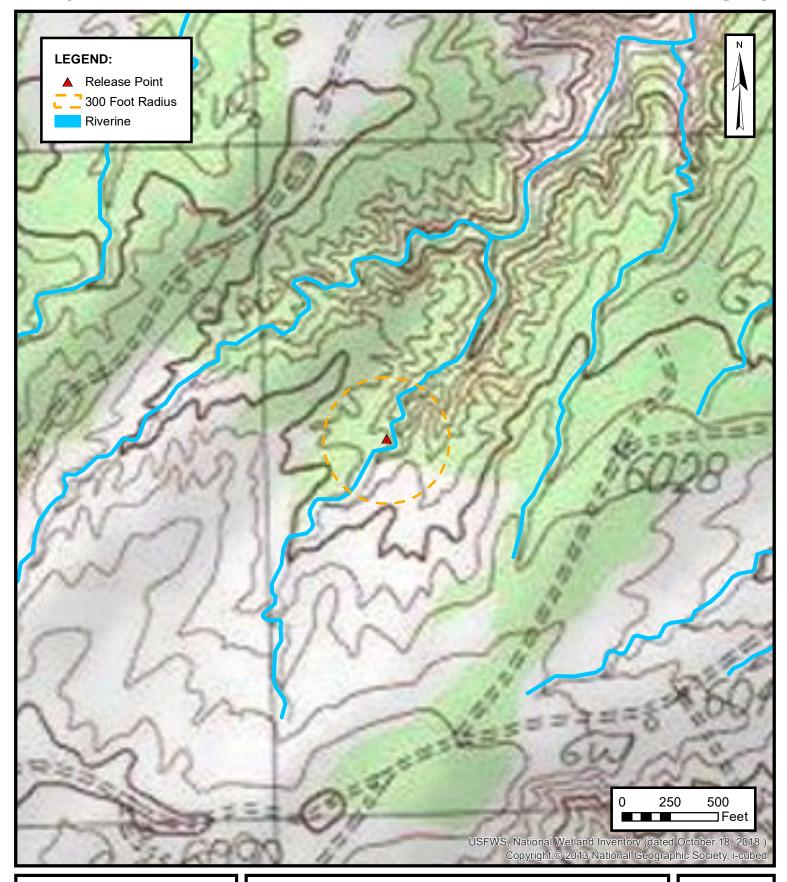
### WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

FIGURE

E





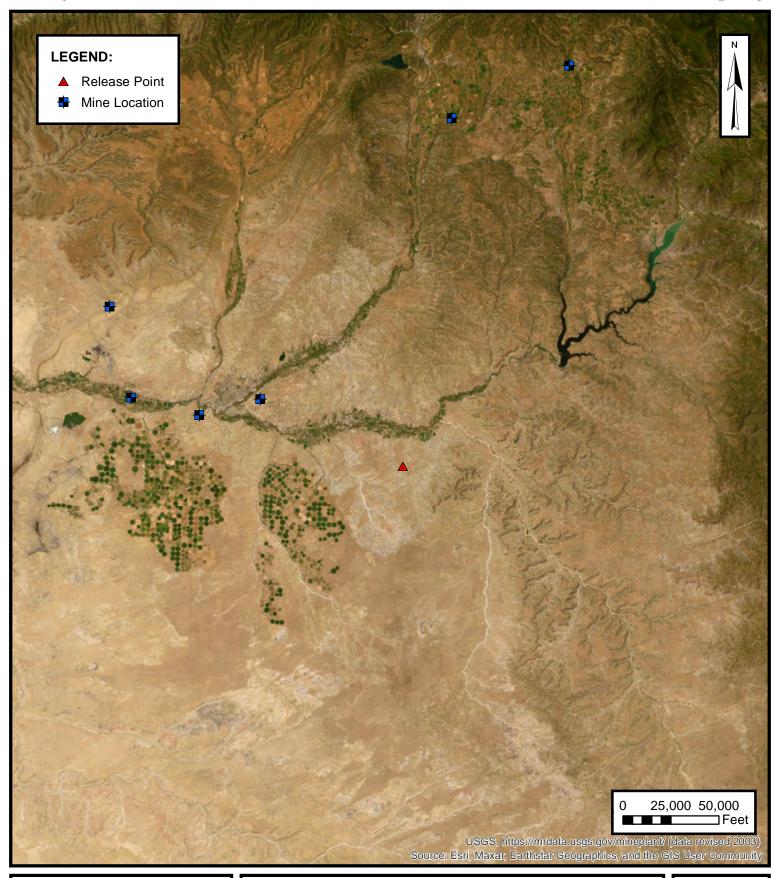
### **WETLANDS**

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

**FIGURE** 

F





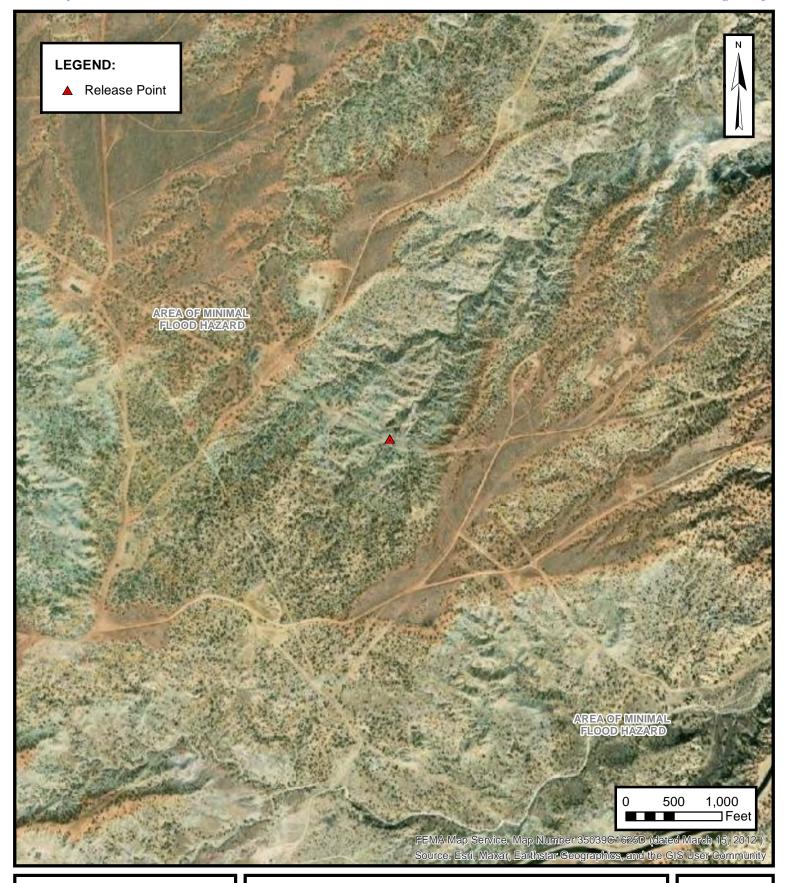
### MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

**FIGURE** 

G





### **100-YEAR FLOOD PLAIN MAP**

ENTERPRISE FIELD SERVICES, LLC LATERAL 2B-24 (10/10/22) Unit Letter F, S22 T28N R10W, San Juan County, New Mexico 32.648466° N, 107.884401° W

PROJECT NUMBER: 05A1226219

**FIGURE** 

Н



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

 POD

 Sub Q Q Q
 Depth Depth Water

 POD Number
 Code basin County 64 16 4 Sec Tws Rng
 X
 Y
 Well Water Column

 SJ 04072 POD1
 SJ SJ SJ 2 2 21 28N 10W 241353 4060382
 470 470 0
 0

Average Depth to Water: 470 feet

Minimum Depth: 470 feet

Maximum Depth: 470 feet

**Record Count: 1** 

**PLSS Search:** 

**Section(s):** 22, 14, 15, 16, **Township:** 28N **Range:** 10W

21, 23, 26, 27,

28

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.

# DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO 30-045-28/09

Operator Meridian Oil Co. Location: Unit M Sec. 22 Twp 28 Rng 10
Name of Well/Wells or Pipeline Serviced
KUTZ CANYON #500
Elevation 589 Completion Date 5-14 93 Total Depth 415 Land Type F
Casing Strings, Sizes, Types & Depths 2/2 Set 99 of 8" PVC CASING.
NO GAS, WATER, OF Boulders Were ENCOUNTERED DURING CASING
If Casing Strings are cemented, show amounts & types used CemenTed
WITH 21 SACKS
If Cement or Bentonite Plugs have been placed, show depths & amounts used
n'ene
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 200 and 300 - water is clear
Depths gas encountered: No Sc 5
Ground bed depth with type & amount of coke breeze used: 415 with
60 (10016) sacks of lonesco Six
Depths anodes placed: 396 to 505
Depths vent pipes placed: Bottom to sarface
Vent pipe perforations: 27 fc 14c'
JAN 3 1 1994
OIL CUIV. DIV

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.



#### LABORATORY REPORT

### OIL-FIELD WATER ANALYSIS

TECH. Inc. 333 East Main Farmington New Mexico 87401 505/327-3311

Lab Number: 930220-3 Client: Meridian Oil Sample ID: Kutz Canyon #500 Location: M22-28-10

Date Sampled: 01-14-93 Date Received: 02-20-93 02:20-93 Date Analyzed: Date Reported: 02-21-93

DISSOLVED SOLIDS: Detection me/L mg/L Limit, mg/L Calcium, Ca++ 1.0 20.8 1.0 Magnesium, Mg++ 0.1 1.0 1.0 Sodium, Na+ (calc) 12.0 275 5.0 Chloride, Cl-0.1 5.0 2.0 Sulfate, SO4--10.9 525 5.0 Bicarbonate, HCO3-NO NO 5.0 Carbonate, CO3--1.6 48.0 1.0 Hydroxide, OH-0.4 6.8 1.0 Total Dissolved Solids (calculated): 880 10.0

### OTHER PROPERTIES:

PH (units): 8.7 reisistivity (ohm-meters): 11 specific gravity at hor: 1,0036 room temperature (F):

ND = Not Detected at the stated dectection limit

Methods: American Petrolium Institute, "Recommended Practice

for Analysis of Oil-Field Waters; " 2nd edition.

72

Comments: Fruitland Coal; \$J, NM; Groundbed

Sampled by R. Smith

3720

## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Meridian Oil Co. Location: Unit M Sec. 23 Twp 28 Rng 10
Name of Well/Wells or Pipeline Serviced 30-045-07272, 30-045-/3069,
Mc C/ANAHAN R"1, R"2, + R"3 30-045-24757
Elevation 58// Completion Date 3-53-93Total Depth 4/3 Land Type F
Casing Strings, Sizes, Types & Depths 2/18 507 99 of 8" PVC CASING.
NO GAS WATER OF Boulders Were ENCOUNTERED DURING CASING
If Casing Strings are cemented, show amounts & types used Cemented
WITH 21 SACKS
If Cement or Bentonite Plugs have been placed, show depths & amounts used
None
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 155' and was clear.
Depths gas encountered: $\sqrt{3}$ $\sqrt{3}$ $\sqrt{5}$
Ground bed depth with type & amount of coke breeze used: 413 with
50 (10015) sacks Loresco S.W. and 80 (5016) Asbury.
Depths anodes placed: 4/at 390' and 4/5 at 175'
Depths vent pipes placed: Bottom to surface 10 EPE 1 WE 10
Vent pipe perforations: 40 40 150
JAN 31 1994 Remarks:
OIL COIN. DIV.

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.

Leila Lellan

Mar 21,93 16:02 No.001 P.16

TEL No.5053253311

BKIONES THM LIKW



### LABORATORY REPORT

### DIL-FIELD WATER ANALYSIS

TECH, Inc. 333 East Main Farmington New Moxico 87401 505/327-3311

Lab Number:	25930315-08	6160W	Date Sampled:	02-22-93
Client:	Meridian Oil		Date Received:	03-15-93
Sample ID:	McClanahan A	#2,#1,#3 G.bed	Date Analyzed:	03-17 <b>-9</b> 3
Location:	M23-28-10		Date Reported:	03-18-93

DISSOLVED SOLIDS:	mæ/L	mg/L	Detection Limit, mg/L
	6 - 26 fa 1871 1970) 1970)		
Calcium, Ca++	7.9	159	1.0
Magnesium, Mg++	0.4	5	1.0
Sodium, Na+ (calc)	50.5	1,160	5.0
Chloride, Cl-	9.7	25	2.0
Sulfate, SO4	52.9	2.540	5.0
Bicarbonate, HCD3-	4.8	293	5.0
Carbonate,C03	0.4	12	1 - 0
Hydraxide, DH-	ND	ND	1.0
Total Dissolved Solids	(calculated):	4,200	10.0

### OTHER PROPERTIES:

pH (units):	8.1
reisistivity (ohm-meters):	2.2
specific gravity at 60F:	1.0071

room temperature (F): 72

ND = Not Detected at the stated dectection limit

Comments: DK, PC, PC Formation.

San Juan County, New Mexico

Sampled by R. Smith

Methods: American Petroleum Institute, "Recommended Practice

for Analysis of Dil-Field Waters;" 2nd edition.

analyst





#### LABORATORY REPORT

#### OIL-FIELD WATER ANALYSIS

**TECH,** Inc. 333 East Main Farmington New Mexico 87401 505/327-3311

Lab Number: 25930315-08 Date Sampled: 02-22-93 Client: Meridian Oil OV Date Received: 03-15-93 Sample ID: McClanahan A #2,#1,#3 G.bed Date Analyzed: 03-17-93 Location: M23-28-10 Date Reported: 03-18-93

DISSOLVED SOLIDS:	,,	21	Detection	
	me/L	mg/L	Limit, mg/L	
Calcium, Ca++	7.9	158	1.0	
Magnesium, Mg++	0.4	5	1 . O	
Sodium, Na+ (calc)	50.5	1,160	5 . O	
Chloride, Cl-	0.7	25	2.0	
Sulfate, SO4	52.9	2,540	5.0	
Bicarbonate, HCO3-	4.8	293	5.0	
Carbonate,CO3	0.4	12	1.0	
Hydroxide, OH-	ND	ND	1.0	
Total Dissolved Solids (	calculated):	4.200	10.0	

### OTHER PROPERTIES:

pH (units): 8.1 reisistivity (ohm-meters): 2.2 specific gravity at 60F: 1.0071

room temperature (F): 72

ND = Not Detected at the stated dectection limit

Comments: DK, PC, PC Formation.

San Juan County, New Mexico

Sampled by R. Smith

Methods: American Petroleum Institute, "Recommended Practice

for Analysis of Oil-Field Waters;" 2nd edition.

analyst

		•
	20 000	ヘフはてか
#=4	30-045-	(1/7.20)
//		

#15 30-045-07423

#550 30-045-27926

100

# DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Meridian OIL Location: Unit N Sec. 14 Twp 28-Rng 10
Name of Well/Wells or Pipeline Serviced MccLanatan # 550, 15, 9
Elevation 5400 Completion Date 12-6-91 Total Depth 497 Land Type F
Casing Strings, Sizes, Types & Depths & Pro Surface Casing
If Casing Strings are cemented, show amounts & types used yes with zy
Bags of Neat Gement
If Cement or Bentonite Plugs have been placed, show depths & amounts used $N \not\vdash A$
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 310 fresh
Depths gas encountered: NA
Ground bed depth with type & amount of coke breeze used: 497
7600165 Ashury 4518 Flocoke
Depths anodes placed: 469, 460, 450, 440, 430, 415, 405, 395, 385, 375-365, 350
Depths vent pipes placed: 497 7600 165 Asbury 1518 Flo coke
Vent pipe perforations: Bottom 300' DECEIVEM
Remarks: FEB2 41992
OIL CON. DIV.J.
DIST. 3
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.

### \_\_CPS-GROUND &BED &CONSTRUCTION &WORKSHEET

4207 W	MCCLAN	ME ( NUR Altan F	550 15	9		
WO # K443	TOTAL	VOLTE	28.9	- 0HM=	12-6-91	NAME KB
REMARKS (no	tee fo	r constru	eston log;			,

100' of casing, 24 Bags ceneut, water at 320', Perforated Bottom 300'

150 Bags of Asbury 4518, 1 Bag of Loresco type SW

DEPTH	<u>™</u> L00	-	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	Laa	-	į
	ANODE			ANODE			ANODE			ANODE		
100			295			490	1.3		685			
105	,		300			495	Ta 497		690			
110			305			500			695			
115	~		310			505			700			
120			315			510			ANODE	DEPTH	70	#UL
-125-			320	1.7		515					COKE	COK
130	-		325	1.6		520			1_1_	469	2.4	5, 8
135_			330	1.8		525			_2	460	2.8	6.7
140			335	1.2		530			_3	450	3.4	7.4
145	-		340	.9		535	<u> </u>		4	440	2.8	66
150			345	2.3		540			5	430	2.6	6.2
155 m	Jan.		350 ·	2.4	12	545			_ 6	415	2.5	6.6
160			355	1.9		<b>2550</b>			7	405	3.0	8.
165			360	2.1		555			8	395	2.4	7.
170			365	2.1	//	560			9	385	2.5	8
175			370	2.1		565			10	375	2.5	7.9
180			375	2.0	10	570			11	365	2.4	8.0
-185	promote to be the		380	2./		575	}		12	350	2.4	8.4
190			385	2.3	9	580			13			1
195	7		390	2.1		585			14			
200	au '		395	2.1	8	590			15			
205	<u> </u>		400	2.2		595	l		16			
210	Parameter .		405	2.4	7	600			17			
215	-,71		410	2.3		-605			18			
220	141 *		415.	2.1	6	610			19			
:225	April 1		420	1.6		615			20			1
230			425	1.1		620			21			
235	and the second		430	2.2	3	625		İ	22			
240			435	2.4		630			23			1
245			440	2.6	4	635			24			-1
250			445	2.6		640			25			1
255	1		450	3.2	3	645			26	-	1	-1
260			455	2.8	1	650			27	1	-	-1
265	·	·	460	2.6	2	655			28	*(		-{
270			465	2.6	1	-660	1		29	1	1	-
275	-	1	470	2.0	1	665			30		1	1-
280	1	1	475	1.0		670				1	1	7
<u>:85</u>	-	1	480	17		675	1		1	1		-1-
290			485	1:0	1	<b>680</b>	1			1	-	

Released to Imaging: 6/13/2023 8:43:14 AM Region Correction Specialist

۳.

### DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Meridian Oil Inc. Location: Unit	Sec. 14 Twp 28 Rng 10
Name of Well/Wells or Pipeline Serviced Mc Clanar	han #19E
Elevation 5900 Completion Date 2-15-95 Total Depth	Land Type F
Casing Strings, Sizes, Types & Depths 100 of 8"	P.J.C.
If Casing Strings are cemented, show amounts & types with 17 sacks of type II cement	usedCemented
If Cement or Bentonite Plugs have been placed, show	depths & amounts used
Depths & thickness of water zones with description of Salty, Sulphur, Etc. 130 and was clear.	
Depths gas encountered:	
Ground bed depth with type & amount of coke breeze u	sed:
Depths anodes placed:	
Depths vent pipes placed: Bottom to Surface	
Vent pipe perforations: Up to 120!	DEVERMED
Remarks:	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	JAN 1 1 .oo

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.

100' 17 sacks

## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Meridian Oil Location: Unit O Sec. 15 Twp 28 Rng 10
Name of Well/Wells or Pipeline Serviced (c,n #// E
· · · · · · · · · · · · · · · · · · ·
Elevation 5900 Completion Date 2-13-95 Total Depth 430 Land Type
Casing Strings, Sizes, Types & Depths 8" P.J.C. to 100'
If Casing Strings are cemented, show amounts & types used $2800 / 7$
sacks of type II cement.
If Cement or Bentonite Plugs have been placed, show depths & amounts used
No pluys
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 180'and was alear
Depths gas encountered: No gos
Ground bed depth with type & amount of coke breeze used: 430 with
57 (5700/6) of lonesco Sw
Depths anodes placed: 11 15 at 415 and 15 is at 330
Depths vent pipes placed: Up to 180' Bottom to Surface
Vent pipe perforations: Up to 180' DECEMBED
Remarks:
ONL COM DEV

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.

### DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Meridian Oil INC. Location: Unit O Sec. 21 Twp 28 Rng 10
Name of Well/Wells.or Pipeline Serviced
KUTZ Deep Test #1
Elevation 6/24 Completion Date 8/26/93 Total Depth 4/29 Land Type F
Casing Strings, Sizes, Types & Depths 7/6 SeT 59 of8" PVc CASING.
NO GAS, WATER, OF Boulders Were ENCOUNTERED DUTING CASING.
If Casing Strings are cemented, show amounts & types used ComenTed
WITH 12 SACKS.
If Cement or Bentonite Plugs have been placed, show depths & amounts used
None
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT Fresh WATER AT 110, AND More AT
325'. A WATER SAMPLE WAS TAKEN.
Depths gas encountered: None
Ground bed depth with type & amount of coke breeze used: 429' DepTH.
Used 120 SACKS OF ASbury 218R (6000#)
Depths anodes placed: 4/3, 405, 319, 288, 281, 274, 267, 266, 253, 246, 139, 232, 196, 188, +186
Depths vent pipes placed: Surface To 4295 EFF
Vent pipe perforations: Rollom 320.
Remarks:
OIL CON. DIV

If any or 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.



### **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.

1220 S. St. Hailers Dr., Santa Fe, NW 87505
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 PayKey: RB21200 PM: ME Eddleman AFE: N61122
2. Originating Site: Lateral 2B-24
3. Location of Material (Street Address, City, State or ULSTR): UL F Section 22 T28N R10W; 36.648466, -107.88401  Oct 2022
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 yd / bbls Known Volume (to be entered by the operator at the end of the haul) 56 yd / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, Thomas Long for Enterprise Products Operating do hereby  Generator Signature  certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 198 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.  **Operator Use Only: Waste Acceptance Frequency   Monthly   Weekly   Per Load**
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Che the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, Thomas Long 10-11-2022, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete Generator Signature the required testing/sign the Generator Waste Testing Certification.
I, <u>Grey Gabrie</u> , representative for <u>Envirotech, Inc.</u> 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 sampl have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The result 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: West States Energy Contractors and Subcontractors
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011  Address of Facility: Hilltop, NM  Method of Treatment and/or Disposal:  Evaporation Injection Treating Plant Landfarm Landfill Other
Waste Acceptance Status:
PRINT NAME: Gray Chaldren  SIGNATURE: TILE: Endiro Manager DATE: 10/18/22  TELEPHONE NO.:

505-632-0615

Surface Waste Management Facility Authorized Agent



# APPENDIX D

Photographic Documentation

Closure Report Enterprise Field Services, LLC Lateral 2B-24 (10/10/22) Ensolum Project No. 05A1226219



#### Photograph 1

Photograph Description: View of the inprocess excavation activities.



#### Photograph 2

Photograph Description: View of the inprocess excavation activities.



#### Photograph 3

Photograph Description: View of the final excavation.



#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Lateral 2B-24 (10/10/22) Ensolum Project No. 05A1226219



#### Photograph 4

Photograph Description: View of the final flow path excavation.



#### Photograph 5

Photograph Description: View of the site after initial restoration.



#### Photograph 6

Photograph Description: View of the site after initial restoration.





# **APPENDIX E**

Regulatory Correspondence

From: Kyle Summers
To: Ranee Deechilly

**Subject:** Fwd: [EXTERNAL] Lateral 2B-24 - UL F Section 22 T28N R10W; 36.648466, -107.88401; Incident #

nAPP2228430992

**Date:** Tuesday, October 18, 2022 10:06:07 AM

Kyle Summers Principal 903-821-5603 Ensolum, LLC

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

**Sent:** Tuesday, October 18, 2022 10:57:24 AM

**To:** Long, Thomas <tjlong@eprod.com>; Ryan Joyner <rjoyner@blm.gov>

**Subject:** RE: [EXTERNAL] Lateral 2B-24 - UL F Section 22 T28N R10W; 36.648466, -107.88401;

Incident # nAPP2228430992

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

Tom,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

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 | nelson.velez@emnrd.nm.gov NOTE NEW EMAIL ADDRESS http://www.emnrd.state.nm.us/OCD/



From: Long, Thomas <tjlong@eprod.com> Sent: Tuesday, October 18, 2022 8:06 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Ryan Joyner <rjoyner@blm.gov>

**Cc:** Stone, Brian <br/> <br/>bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>

**Subject:** FW: [EXTERNAL] Lateral 2B-24 - UL F Section 22 T28N R10W; 36.648466, -107.88401;

Incident # nAPP2228430992

Nelson,

This email is a sample notification and variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. The last sampling event, all samples passed the NMOCD Tier I remediation standard except one. Enterprise would like to collect the final closure sample today October 18, 2022 at the Lateral 2B-24 excavation. 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



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

**Sent:** Friday, October 14, 2022 2:56 PM

**To:** Long, Thomas <<u>tilong@eprod.com</u>>; Ryan Joyner <<u>rioyner@blm.gov</u>>

**Cc:** Stone, Brian < bmstone@eprod.com>; Kyle Summers < ksummers@ensolum.com>

**Subject:** RE: [EXTERNAL] Lateral 2B-24 - UL F Section 22 T28N R10W; 36.648466, -107.88401;

Incident # nAPP2228430992

[Use caution with links/attachments]

Tom,

Thank you for the notice. Your variance request is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

#### Regards

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov NOTE NEW EMAIL ADDRESS
http://www.emnrd.state.nm.us/OCD/



From: Long, Thomas <tilong@eprod.com>
Sent: Friday, October 14, 2022 2:31 PM

**To:** Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >; Ryan Joyner < rioyner@blm.gov >

**Cc:** Stone, Brian < bmstone@eprod.com >; Kyle Summers < ksummers@ensolum.com >

**Subject:** [EXTERNAL] Lateral 2B-24 - UL F Section 22 T28N R10W; 36.648466, -107.88401; Incident #

nAPP2228430992

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

Nelson,

This email is a sample notification and variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples today October 14, 2022 at the Lateral 2B-24 excavation. 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)
tjlong@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  Lateral 2B-24 (10/10/22)  SOIL ANALYTICAL SUMMARY													
Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX <sup>1</sup>	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH (GRO/DRO/MRO)	Chloride	
		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
	Depa	eral & Natural F rtment on Closure Crite		10	NE	NE	NE	50	NE	NE	NE	100	600	
			Compo	osite Soil Samp	le Removed by	Excavation and	Transported to	the Landfarmf	for Remediation	/Disposal				
FP-1	10.14.22	С	0.25	<0.016	0.057	< 0.033	0.19	0.25	<3.3	250	<48	250	210	
						Flow Path Com	posite Soil Sam	ple						
FP-2	10.18.22	С	0.25 to 1	<0.016	<0.033	<0.033	<0.065	ND	<3.3	<14	<48	ND	89	
FP-3	10.18.22	С	0.25 to 1	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<15	<49	ND	<60	
						Excavation Comp	oosite Soil Sam	ples						
S-1	10.14.22	С	6	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<15	<50	ND	160	
S-2	10.14.22	С	0 to 6	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<15	<48	ND	95	
S-3	10.14.22	С	0 to 6	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<15	<50	ND	<60	

< 0.069

< 0.073

ND

ND

<3.4

<3.6

<15

<14

<50

<48

ND

ND

<60

83

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

С

С

< 0.017

<0.018

< 0.034

< 0.036

< 0.034

< 0.036

0 to 6

0 to 6

NE = Not established

S-4

S-5

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

10.14.22

10.14.22

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

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

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



# **APPENDIX G**

Laboratory Data Sheets & Chain of Custody Documentation



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 24, 2022

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A

606 S. Rio Grande Suite A

Aztec, NM 87410 TEL: (903) 821-5603

FAX:

RE: Lateral 2B 24 OrderNo.: 2210774

#### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/15/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

### **Analytical Report**

Lab Order **2210774**Date Reported: **10/24/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

**Project:** Lateral 2B 24 **Collection Date:** 10/14/2022 2:50:00 PM

**Lab ID:** 2210774-001 **Matrix:** MEOH (SOIL) **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JTT
Chloride	160	60		mg/Kg	20	10/17/2022 12:33:22 PM	1 70866
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/17/2022 11:57:21 AM	1 70853
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/17/2022 11:57:21 AM	1 70853
Surr: DNOP	131	21-129	S	%Rec	1	10/17/2022 11:57:21 AM	1 70853
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/15/2022 1:12:10 PM	G91823
Surr: BFB	87.1	37.7-212		%Rec	1	10/15/2022 1:12:10 PM	G91823
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.018		mg/Kg	1	10/15/2022 1:12:10 PM	B91823
Toluene	ND	0.035		mg/Kg	1	10/15/2022 1:12:10 PM	B91823
Ethylbenzene	ND	0.035		mg/Kg	1	10/15/2022 1:12:10 PM	B91823
Xylenes, Total	ND	0.071		mg/Kg	1	10/15/2022 1:12:10 PM	B91823
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	10/15/2022 1:12:10 PM	B91823

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

**CLIENT: ENSOLUM** 

### **Analytical Report**

Lab Order 2210774 Date Reported: 10/24/2022

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-2

**Project:** Lateral 2B 24 **Collection Date:** 10/14/2022 2:55:00 PM

Lab ID: 2210774-002 Matrix: MEOH (SOIL) **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	95	60	mg/Kg	20	10/17/2022 12:45:43 PN	1 70866
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/17/2022 12:22:55 PN	1 70853
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/17/2022 12:22:55 PN	1 70853
Surr: DNOP	128	21-129	%Rec	1	10/17/2022 12:22:55 PN	1 70853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	10/15/2022 1:35:35 PM	G91823
Surr: BFB	87.2	37.7-212	%Rec	1	10/15/2022 1:35:35 PM	G91823
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	10/15/2022 1:35:35 PM	B91823
Toluene	ND	0.037	mg/Kg	1	10/15/2022 1:35:35 PM	B91823
Ethylbenzene	ND	0.037	mg/Kg	1	10/15/2022 1:35:35 PM	B91823
Xylenes, Total	ND	0.075	mg/Kg	1	10/15/2022 1:35:35 PM	B91823
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	10/15/2022 1:35:35 PM	B91823

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Ε Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 2 of 10

### **Analytical Report**

Lab Order **2210774**Date Reported: **10/24/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

**Project:** Lateral 2B 24 **Collection Date:** 10/14/2022 3:00:00 PM

**Lab ID:** 2210774-003 **Matrix:** MEOH (SOIL) **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 12:58:04 PM	1 70866
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/17/2022 12:33:20 PM	1 70853
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/17/2022 12:33:20 PM	1 70853
Surr: DNOP	120	21-129	%Rec	1	10/17/2022 12:33:20 PM	1 70853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	10/15/2022 1:59:04 PM	G91823
Surr: BFB	87.7	37.7-212	%Rec	1	10/15/2022 1:59:04 PM	G91823
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	10/15/2022 1:59:04 PM	B91823
Toluene	ND	0.034	mg/Kg	1	10/15/2022 1:59:04 PM	B91823
Ethylbenzene	ND	0.034	mg/Kg	1	10/15/2022 1:59:04 PM	B91823
Xylenes, Total	ND	0.069	mg/Kg	1	10/15/2022 1:59:04 PM	B91823
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	10/15/2022 1:59:04 PM	B91823

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 10

**CLIENT: ENSOLUM** 

### **Analytical Report**

Lab Order **2210774**Date Reported: **10/24/2022** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-4

 Project:
 Lateral 2B 24
 Collection Date: 10/14/2022 3:05:00 PM

 Lab ID:
 2210774-004
 Matrix: MEOH (SOIL)
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 1:10:24 PM	70866
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/17/2022 12:43:45 PM	A 70853
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/17/2022 12:43:45 PM	A 70853
Surr: DNOP	116	21-129	%Rec	1	10/17/2022 12:43:45 PM	A 70853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	10/15/2022 2:22:38 PM	G91823
Surr: BFB	87.2	37.7-212	%Rec	1	10/15/2022 2:22:38 PM	G91823
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.017	mg/Kg	1	10/15/2022 2:22:38 PM	B91823
Toluene	ND	0.034	mg/Kg	1	10/15/2022 2:22:38 PM	B91823
Ethylbenzene	ND	0.034	mg/Kg	1	10/15/2022 2:22:38 PM	B91823
Xylenes, Total	ND	0.069	mg/Kg	1	10/15/2022 2:22:38 PM	B91823
Surr: 4-Bromofluorobenzene	92.8	70-130	%Rec	1	10/15/2022 2:22:38 PM	B91823

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 10

#### **Analytical Report**

Lab Order **2210774**Date Reported: **10/24/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

**Project:** Lateral 2B 24 **Collection Date:** 10/14/2022 3:10:00 PM

**Lab ID:** 2210774-005 **Matrix:** MEOH (SOIL) **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	83	60	mg/Kg	20	10/17/2022 1:22:46 PM	70866
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/17/2022 12:54:12 PM	1 70853
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/17/2022 12:54:12 PM	1 70853
Surr: DNOP	115	21-129	%Rec	1	10/17/2022 12:54:12 PM	1 70853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	10/15/2022 2:46:07 PM	G91823
Surr: BFB	88.6	37.7-212	%Rec	1	10/15/2022 2:46:07 PM	G91823
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.018	mg/Kg	1	10/15/2022 2:46:07 PM	B91823
Toluene	ND	0.036	mg/Kg	1	10/15/2022 2:46:07 PM	B91823
Ethylbenzene	ND	0.036	mg/Kg	1	10/15/2022 2:46:07 PM	B91823
Xylenes, Total	ND	0.073	mg/Kg	1	10/15/2022 2:46:07 PM	B91823
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	10/15/2022 2:46:07 PM	B91823

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ring Limit Page 5 of 10

**CLIENT: ENSOLUM** 

#### **Analytical Report**

Lab Order **2210774**Date Reported: **10/24/2022** 

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FP-1

**Project:** Lateral 2B 24 **Collection Date:** 10/14/2022 3:15:00 PM

**Lab ID:** 2210774-006 **Matrix:** MEOH (SOIL) **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	210	60	mg/Kg	20	10/17/2022 1:35:06 PM	70866
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: mb
Diesel Range Organics (DRO)	250	14	mg/Kg	1	10/17/2022 4:12:05 PM	70853
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/17/2022 4:12:05 PM	70853
Surr: DNOP	121	21-129	%Rec	1	10/17/2022 4:12:05 PM	70853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/15/2022 3:09:36 PM	G91823
Surr: BFB	96.6	37.7-212	%Rec	1	10/15/2022 3:09:36 PM	G91823
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.016	mg/Kg	1	10/15/2022 3:09:36 PM	B91823
Toluene	0.057	0.033	mg/Kg	1	10/15/2022 3:09:36 PM	B91823
Ethylbenzene	ND	0.033	mg/Kg	1	10/15/2022 3:09:36 PM	B91823
Xylenes, Total	0.19	0.065	mg/Kg	1	10/15/2022 3:09:36 PM	B91823
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	10/15/2022 3:09:36 PM	B91823

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 10

### Hall Environmental Analysis Laboratory, Inc.

2210774 24-Oct-22

WO#:

Client: ENSOLUM
Project: Lateral 2B 24

Sample ID: MB-70866 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70866 RunNo: 91844

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3294671 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70866 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70866 RunNo: 91844

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3294673 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.0 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 10

# Hall Environmental Analysis Laboratory, Inc.

2210774 24-Oct-22

WO#:

Client: ENSOLUM
Project: Lateral 2B 24

	Euterur 2E											
Sample ID: M	1B-70853	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: P	BS	Batch	n ID: <b>70</b> 8	353	F	RunNo: 9	1838					
Prep Date:	10/17/2022	Analysis D	Date: 10	/17/2022	5	SeqNo: 3	293382	Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Org	ganics (DRO)	ND	15									
Motor Oil Range (	Organics (MRO)	ND	50									
Surr: DNOP		12		10.00		118	21	129				
Sample ID: 22	210774-001AMS	SampT	уре: МЅ	3	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: S	-1	353	RunNo: 91838									
Prep Date:	10/17/2022	Analysis D	)ate: 10	/17/2022	5	SeqNo: 3	293893	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Org	ganics (DRO)	58	15	49.31	0	117	36.1	154				
Surr: DNOP		5.5		4.931		111	21	129				
Sample ID: 22	210774-001AMSD	SampT	уре: МS	SD	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: S	-1	Batch	n ID: <b>70</b> 8	353	F	RunNo: 9	1838					
Prep Date:	10/17/2022	Analysis D	Date: 10	/17/2022		SeqNo: 3	293894	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Org	ganics (DRO)	53	14	47.94	0	111	36.1	154	7.63	33.9		
Surr: DNOP		5.4		4.794		112	21	129	0	0		
Sample ID: L	CS-70853	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: Lo	CSS	Batch	n ID: <b>70</b> 8	70853 RunNo: 91845								
Prep Date:	10/17/2022	Analysis D	Date: 10	/17/2022	S	SeqNo: 3	293928	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Org	ganics (DRO)	48	15	50.00	0	95.6	64.4	127				
Surr: DNOP		4.7		5.000		94.5	21	129				

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 10

#### Hall Environmental Analysis Laboratory, Inc.

2210774 24-Oct-22

WO#:

**Client: ENSOLUM Project:** Lateral 2B 24

Sample ID: 2210774-001ams

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

PBS Client ID: Batch ID: **G91823** RunNo: 91823

Prep Date: Analysis Date: 10/15/2022 SeqNo: 3292452 Units: mq/Kq

SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result **PQL** SPK value %REC LowLimit Qual ND 5.0

Gasoline Range Organics (GRO)

Surr: BFB 880 1000 87.7 37.7 212

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: **G91823** RunNo: 91823

Prep Date: Analysis Date: 10/15/2022 SeqNo: 3292453 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 25.00 94.6 72.3 137

TestCode: EPA Method 8015D: Gasoline Range

Surr: BFB 1800 1000 183 37.7 212

Client ID: Batch ID: **G91823** RunNo: 91823

SampType: MS

Prep Date: Analysis Date: 10/15/2022 SeqNo: 3292468 Units: mg/Kg

Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 17 3.5 17.67 96.0 70 130

Surr: BFB 1300 706.7 185 37.7 212

Sample ID: 2210774-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: **G91823** S-1 RunNo: 91823

Prep Date: Analysis Date: 10/15/2022 SeqNo: 3292469 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 17 3.5 17.67 96.6 70 130 0.706 20 Surr: BFB 1300 706.7 187 37.7 212 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

24-Oct-22

2210774

WO#:

Client:	ENSOLUM
Project:	Lateral 2B 24

Sample ID: mb	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	h ID: <b>B9</b>	1823	RunNo: 91823						
Prep Date:	Analysis Date: 10/15/2022			9	SeqNo: 32	292501	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	70	130			

Sample ID: 100ng btex Ics	Sample ID: 100ng btex lcs SampType: LCS						TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	h ID: <b>B9</b>	1823	RunNo: 91823										
Prep Date:	Date: Analysis Date: 10/15/2022				SeqNo: 3292502 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.0	0.025	1.000	0	102	80	120							
Toluene	1.0	0.050	1.000	0	102	80	120							
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120							
Xylenes, Total	3.0	3.0 0.10 3.000		0	99.8	80	120							
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	70	130							

Sample ID: 2210774-002ams	Samp <sup>-</sup>	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2	Batc	h ID: <b>B9</b>	1823	F							
Prep Date: Analysis Date: 10/15/2022				9	SeqNo: 3292517 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.74	0.019	0.7485	0	99.0	68.8	120				
Toluene	0.74	0.037	0.7485	0	98.6	73.6	124				
Ethylbenzene	0.73	0.037	0.7485	0	97.4	72.7	129				
Xylenes, Total	2.2	0.075	2.246	0	96.7	75.7	126				
Surr: 4-Bromofluorobenzene	0.70		0.7485		93.9	70	130				

Sample ID: 2210774-002amsd	SampT	SampType: MSD			TestCode: EPA Method 8021B: Volatiles					
Client ID: S-2	Batcl	n ID: <b>B9</b> 1	1823	F	RunNo: 91					
Prep Date:	Analysis D	Date: 10	/15/2022	5	SeqNo: 32	292518	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.019	0.7485	0	96.1	68.8	120	2.93	20	
Toluene	0.72	0.037	0.7485	0	96.1	73.6	124	2.58	20	
Ethylbenzene	0.71	0.037	0.7485	0	95.3	72.7	129	2.14	20	
Xylenes, Total	2.1	0.075	2.246	0	94.8	75.7	126	1.98	20	
Surr: 4-Bromofluorobenzene	0.68		0.7485		91.0	70	130	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: 2210774 RcptNo: 1 Received By: Cheyenne Cason 10/15/2022 8:40:00 AM Completed By: Cheyenne Cason 10/15/2022 9:02:29 AM 10/15/2022 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🗆 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 8. Was preservative added to bottles? No 🗸 Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA 🗸 10. Were any sample containers received broken? Yes No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? No  $\square$ Adjusted Yes 🗸 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Checked by: [W 10/18/2 Yes 🗸 No (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: Phone Fax In Person Regarding: Client Instructions: Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 3.0 Good Yes

Received by OCD: 6/12/2023	.15:47 PM	Page 60 of 70
IAL OR)		
HALL ENVIRONMENTAL ANALYSIS LABORATOR' www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request		EPPRD)
ENVIRONME YSIS LABOR/ environmental.com Albuquerque, NM 87109 Fax 505-345-4107 allysis Request	ShroIMS	X X X X X X X X X X X X X X X X X X X
IALL ENVIRONN NALYSIS LABOI www.hallenvironmental.com ins NE - Albuquerque, NM 87 15-3975 Fax 505-345-4107 Analysis Request		X X X X X X X X X X X X X X X X X X X
LYSIS LAE LYSIS LAE allenvironmental.cc - Albuquerque, NI - Fax 505-345-	(AOV-imə2) 0728	Notate Violate
SIS SIS vironi buqui Fax	(AOV) 09S8	Ley- AFE - clearly noti
LY LY allen - Al	CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	Pay Key-Non AFE
HALL ANAL www.hal kins NE -	PAHs by 8310 or 8270SIMS RCRA 8 Metals	ited dat
HALL ANAL www.ha Hawkins NE 505-345-3975	EDB (Method 504.1)	contrac
HALL ANAL ANAL www.hall 4901 Hawkins NE - Tel. 505-345-3975	8081 Pesticides/8082 PCB's	wy sub-cor
4901 Tel.	(OAM \ OAO \ DRO) a21508:H9T	Remarks:
	BTEX / MTBE / TMB's (8021)	×××× × × × × × × × × × × × × × × × × ×
SAME DAY 100%	100 (°C) 100 (°C) 100 (°C) 100 (°C) 100 (°C)	-L. 1
S-24	ROCECTIFUL BY YES TO THE TO TH	Cool
Turn-Around Time:  ☐ Standard  Project Name:  ☐ A Peral 28  Project #: Seer	Sampler: RDeeck On Ice: # of Coolers: (Cooler Temp(including cF): Container Preserva Type and # Type	(1) 402 Jec (1) 402 Jec (2) 402 Jec (3) 402 Jec (4) 402 Jec (4) 402 Jec (5) 402 Jec (6) 402 Jec (7) 402 Jec (7) 402 Jec (8) 402 Jec (9) 402 Jec (1) 402 Jec (2) 402 Jec (3) 402 Jec (4) 402 Jec (4) 402 Jec (5) 402 Jec (6) 402 Jec (7) 402 Jec (7) 402 Jec (8) 4
Chain-of-Custody Record Client: Enselum, LLC Mailing Address: 6065, Ric Grande Swite A Aztec, NM 84410 Phone #:	email or Fax#: KSummerse ensither cam Project Manager: KSummers  QA/QC Package:  □ Standard  Accreditation: □ Az Compliance □ NELAC □ Other □ EDD (Type) □ EDD (Type) □ As Matrix Sample Name □ Time Matrix Sample Name □ Type and # Type □ Type and # Type	1450 S S-3
17-01 SS: 6-14	: KSuvm le:	Sample Reling Reling A A A A A A A A A A A A A A A A A A A
Chain-of-Cnt: Enselum ing Address: 606 Aztec, MM ne #:	email or Fax#: } QA/QC Package:  \[ \text{Standard} \] Accreditation: \[ \text{DELAC} \] \[ \text{EDD (Type)}. \]	1450 1450 1200 1200 1200 1200 1200 1200 1200 12
Released to Imagina: 6/13/509		10/17/22 1750 10/17/22 1500 10/17/22 1500 10/17/22 1500 10/17/22 1510 10/17/22 1510 10/17/22 1510 10/17/22 1510 10/17/22 1510 10/17/22 1510 10/17/22 1510



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 27, 2022

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 2B 24 OrderNo.: 2210926

#### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/19/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Anded

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2210926

Date Reported: 10/27/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-2

 Project:
 Lateral 2B 24
 Collection Date: 10/18/2022 1:30:00 PM

 Lab ID:
 2210926-001
 Matrix: SOIL
 Received Date: 10/19/2022 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	89	60	mg/Kg	20	10/19/2022 2:54:37 PM	70914
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	∶mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/19/2022 9:59:06 AM	70913
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/19/2022 9:59:06 AM	70913
Surr: DNOP	99.9	21-129	%Rec	1	10/19/2022 9:59:06 AM	70913
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/19/2022 8:59:17 AM	A91905
Surr: BFB	87.4	37.7-212	%Rec	1	10/19/2022 8:59:17 AM	A91905
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.016	mg/Kg	1	10/19/2022 8:59:17 AM	C91905
Toluene	ND	0.033	mg/Kg	1	10/19/2022 8:59:17 AM	C91905
Ethylbenzene	ND	0.033	mg/Kg	1	10/19/2022 8:59:17 AM	C91905
Xylenes, Total	ND	0.065	mg/Kg	1	10/19/2022 8:59:17 AM	C91905
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	10/19/2022 8:59:17 AM	C91905

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

# Analytical Report Lab Order 2210926

Date Reported: 10/27/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-3

 Project:
 Lateral 2B 24
 Collection Date: 10/18/2022 1:35:00 PM

 Lab ID:
 2210926-002
 Matrix: SOIL
 Received Date: 10/19/2022 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>NAI</b>
Chloride	ND	60	mg/Kg	20	10/19/2022 3:07:01 PM 70914
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/19/2022 10:22:54 AM 70913
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2022 10:22:54 AM 70913
Surr: DNOP	98.6	21-129	%Rec	1	10/19/2022 10:22:54 AM 70913
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	10/19/2022 11:20:02 AM A91905
Surr: BFB	84.8	37.7-212	%Rec	1	10/19/2022 11:20:02 AM A91905
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/19/2022 11:20:02 AM C91905
Toluene	ND	0.034	mg/Kg	1	10/19/2022 11:20:02 AM C91905
Ethylbenzene	ND	0.034	mg/Kg	1	10/19/2022 11:20:02 AM C91905
Xylenes, Total	ND	0.068	mg/Kg	1	10/19/2022 11:20:02 AM C91905
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	10/19/2022 11:20:02 AM C91905

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

porting Limit Page 2 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2210926** 

27-Oct-22

Client: ENSOLUM
Project: Lateral 2B 24

Sample ID: MB-70914 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70914 RunNo: 91941

Prep Date: 10/19/2022 Analysis Date: 10/19/2022 SeqNo: 3298265 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70914 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: **LCSS** Batch ID: **70914** RunNo: **91941** 

Prep Date: 10/19/2022 Analysis Date: 10/19/2022 SeqNo: 3298266 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.8 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

#### Hall Environmental Analysis Laboratory, Inc.

49

4.9

14

47.13

4.713

2210926 27-Oct-22

WO#:

Client: ENSOLUM
Project: Lateral 2B 24

Sample ID: MB-70913	SampType	e: MBLK	TestCode: E	PA Method	8015M/D: Diesel Rang	ge Organics		
Client ID: PBS	Batch ID	): <b>70913</b>	RunNo: 9	RunNo: <b>91900</b>				
Prep Date: 10/19/2022	Analysis Date	e: <b>10/19/2022</b>	SeqNo: 3	296264	Units: mg/Kg			
Analyte	Result F	PQL SPK value	SPK Ref Val %REC	LowLimit	HighLimit %RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	15						
Motor Oil Range Organics (MRO)	ND	50						
Surr: DNOP	9.8	10.00	98.1	21	129			
Sample ID: LCS-70913	SampType	e: <b>LCS</b>	TestCode: E	PA Method	8015M/D: Diesel Rang	ge Organics		
Client ID: LCSS	Batch ID	): <b>70913</b>	RunNo: 9	1900				
Prep Date: 10/19/2022	Analysis Date	e: <b>10/19/2022</b>	SeqNo: 3	296265	Units: mg/Kg			
Analyte	Result F	PQL SPK value	SPK Ref Val %REC	LowLimit	HighLimit %RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	48	15 50.00	0 96.4	64.4	127			
Surr: DNOP	4.9	5.000	97.8	21	129			
Sample ID: 2210926-001AMS	SampType	e: MS	TestCode: E	PA Method	8015M/D: Diesel Rang	ge Organics		
Client ID: FP-2	Batch ID	): <b>70913</b>	RunNo: 9	1900				
Prep Date: 10/19/2022	Analysis Date	e: <b>10/19/2022</b>	SeqNo: 3	297978	Units: mg/Kg			
Analyte	Result F	PQL SPK value	SPK Ref Val %REC	LowLimit	HighLimit %RPD	RPDLimit	Qual	

Sample ID: 2210926-001AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: FP-2	Batch	ID: <b>70</b> 9	913	R	tunNo: 9	1900				
Prep Date: 10/19/2022	Analysis Da	ate: 10	/19/2022	S	eqNo: 3	297979	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	14	47.80	0	99.3	36.1	154	3.84	33.9	
Surr: DNOP	4.9		4.780		102	21	129	0	0	

105

104

36.1

21

154

129

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Surr: DNOP

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

#### Hall Environmental Analysis Laboratory, Inc.

2210926 27-Oct-22

WO#:

Client: ENSOLUM
Project: Lateral 2B 24

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: A91905 RunNo: 91905

Prep Date: Analysis Date: 10/19/2022 SeqNo: 3297260 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 860 1000 85.6 37.7 212

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: A91905 RunNo: 91905

Prep Date: Analysis Date: 10/19/2022 SeqNo: 3297261 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 72.3 Gasoline Range Organics (GRO) 24 5.0 25.00 94.5 137

Surr: BFB 1800 1000 181 37.7 212

Sample ID: 2210926-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **FP-3** Batch ID: **A91905** RunNo: **91905** 

Prep Date: Analysis Date: 10/19/2022 SeqNo: 3297262 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte **PQL** LowLimit Gasoline Range Organics (GRO) 16 3.4 0 70 16.98 93.3 130 Surr: BFB 179 1200 679.4 37.7 212

Sample ID: 2210926-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: FP-3 Batch ID: A91905 RunNo: 91905

Prep Date: Analysis Date: 10/19/2022 SeqNo: 3297263 Units: mg/Kg

%RPD Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 16 3.4 16.98 91.9 70 130 1.51 20 Surr: BFB 1200 679.4 182 37.7 212 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

8 % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 6

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2210926 27-Oct-22** 

Client: ENSOLUM
Project: Lateral 2B 24

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: C91905 RunNo: 91905

Prep Date: Analysis Date: 10/19/2022 SeqNo: 3297306 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.92 1.000 92.0 70 130

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: C91905 RunNo: 91905

Prep Date:	Analysis [	Date: 10	)/19/2022	5	SeqNo: 3	297307	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.97	0.050	1.000	0	96.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.3	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.5	70	130			

Sample ID: 2210926-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **FP-2** Batch ID: **C91905** RunNo: **91905** 

Prep Date:	Analysis [	Date: 10	)/19/2022	8	SeqNo: 3	297308	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.016	0.6540	0	96.0	68.8	120			
Toluene	0.63	0.033	0.6540	0	95.8	73.6	124			
Ethylbenzene	0.62	0.033	0.6540	0	95.2	72.7	129			
Xylenes, Total	1.9	0.065	1.962	0	94.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.61		0.6540		93.2	70	130			

Sample ID: 2210926-001amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **FP-2** Batch ID: **C91905** RunNo: **91905** 

Prep Date:	Analysis [	0/19/2022	٤	SeqNo: <b>3297309</b> Units			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.016	0.6540	0	94.8	68.8	120	1.29	20	
Toluene	0.62	0.033	0.6540	0	94.8	73.6	124	0.976	20	
Ethylbenzene	0.61	0.033	0.6540	0	94.0	72.7	129	1.24	20	
Xylenes, Total	1.8	0.065	1.962	0	94.3	75.7	126	0.230	20	
Surr: 4-Bromofluorobenzene	0.62		0.6540		95.2	70	130	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Nar	me: El	NSOLUM		Work (	Order Numb	er: 22109	926		RcptNo	o: 1
Received	By: J	uan Rojas	í.	10/19/20	22 7:10:00	AM		Guaray		
Completed	d By: T	racy Casa	rrubias	10/19/20	22 7:34:14	AM				
Reviewed	By: <i>S</i>		10/19/27							
Chain of	Custo	<u>dy</u>					_			
1. Is Chair	n of Custo	ody comple	ete?			Yes	<b>✓</b>	No 📙	Not Present	
2. How wa	as the sar	nple delive	red?			Couri	<u>er</u>			
Log In 3. Was an	attempt	made to co	ool the sample	es?		Yes	<b>✓</b>	No 🗆	NA 🗌	
4. Were al	II samples	received a	at a temperat	ure of >0° C to	6.0°C	Yes	<b>~</b>	No 🗆	NA 🗆	
5. Sample	e(s) in pro	per contair	ner(s)?			Yes	<b>V</b>	No 🗌		
6. Sufficier	nt sample	volume fo	r indicated te	st(s)?		Yes	<b>V</b>	No 🗆		
7. Are sam	nples (exc	ept VOA a	nd ONG) pro	perly preserve	d?	Yes	<b>V</b>	No 🗌		
8. Was pre						Yes		No 🔽	NA 🗆	
9. Receive	ed at least	t 1 vial with	headspace ·	<1/4" for AQ V	DA?	Yes		No 🗆	NA 🗹	
10. Were a	ny sampl	e containe	rs received bi	oken?		Yes		No 🗸	# of managed	
									# of preserved bottles checked	
11. Does pa						Yes	<b>✓</b>	No 📙	for pH:	or >12 unless noted)
			in of custody)	of Custody?		Yes		No 🗌	Adjusted?	OT 7 12 dilless floted
			re requested				<b>V</b>	No 🗆		
14. Were al				•			<b>✓</b>	No 🗆	Checked by:	Jn10/19/2
			uthorization.)							
Special H	landlin	g (if app	licable)							
15.Was cl	ient notifi	ed of all dis	screpancies v	vith this order?		Yes		No 🗆	NA 🗹	
F	Person No	otified:	NAMES AND ADDRESS OF THE PARTY.		Date	: [				
Е	By Whom:	· Internation			Via:	eMa	ail 🗀	] Phone 🗌 Fax	☐ In Person	
F	Regarding	:		Name of the last o	***************************************					
C	Client Inst	ructions:								
16. Additio	onal rema	ırks:								
17. <u>Coole</u>	r Informa	ation .								
Cod	oler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed By		
1		1.4	Good	Yes						

Received by OCD: 6/12/2023 1	:15:47 PM		Page 69 of 70
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	RCRA 8 Metals CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)		POW Key - RB1360 Non APE - NC 1132 ed data will be clearly notated on the analytical report.
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	TPH:8015D(GRO \ DRO \ MRO)  8081 Pesticides/8082 PCB's  EDB (Method 504.1)  PAHs by 8310 or 8270SIMS		Remarks: Start DAY possibility. Any sub-contract
Turn-Around Time: SAME OAY  □ Standard XRush 105%  Project Name:  Lateral 28-24  Project #: See notes	Project Manager: KSUMMUS  Sampler: CADecchilly On Ice: A-Yes A No # of Coolers: I Cooler Temp(including cp): 1.3+10.1=1.4 (°C) Type and # Type 71.09.20	100 100) 100 100)	Time: Relinquished by: Via: Date Time Remarks: PM-TDM Long (EPRob 154)    Still   Mark   Mark
Chain-of-Custody Record Client: Ensulum, 21. C Mailing Address: 606 S. R. o Grande Suites Chone #:	email or Fax#: KSummerSeenselum.com CaA/QC Package:  Standard  Cacreditation: Az Compliance  NELAC  Date Time Matrix Sample Name	22 1335 S 22 1335 S 22 1335 S	Date: Time: Relinquished by:  Date: Time: Relinquished by:   v  s  r

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 226452

#### **CONDITIONS**

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	226452
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	6/13/2023