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

Responsible 1	Party: Enter	prise Field Ser	vices, LLC	OGRID: 24160 2	2
Contact Nam	e: Thomas	Long		Contact Telepho	ne: 505-599-2286
Contact emai	Contact email:tjlong@eprod.com Incident # (assigned by OCD) nAPP2235329560			ed by OCD) nAPP2235329560	
Contact mail: 87401	ing address:	614 Reilly Ave,	Farmington, NM	•	
Latitude 36.6			Location o	of Release Sourc	e
	50466		Longitude <u>-</u>	107.869131	(NAD 83 in decimal degrees to 5 decimal places)
Site Name La		<u> </u>	Longitude <u>-</u>		(NAD 83 in decimal degrees to 5 decimal places)
	iteral 2B-24		Longitude <u>-</u>		al Gas Gathering Pipeline
Site Name La	iteral 2B-24		Longitude <u>-</u>	Site Type Natur	al Gas Gathering Pipeline

Nature and Volume of Release

Surface Owner: State Federal Tribal Private (Name: **BLM**

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)			
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No	
Condensate	Volume Released (bbls): 5 BBLS	Volume Recovered (bbls): None	
Natural Gas	Volume Released (Mcf): 24.28 MCF	Volume Recovered (Mcf): None	
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)	
~ ^ -			

Cause of Release On December 9, 2022, Enterprise had a release of natural gas and natural gas liquids from the Lateral 2B-24. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. No waterways were affected. Enterprise began repairs and remediation on December 16, 2022 and determine the release reportable per NMOCD regulation due to the volume of impacted subsurface soil. The remediation was completed on December 20, 2022. The final excavation dimensions measured approximately 14.5 feet long by eight (8) feet wide by eight (8) feet deep. A total of 48 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 92

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 NMAC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
Description of remediation activities					
I hereby certify that the information given above is true and complete to the land regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-141 should their operations have failed to adequately investigate and remediate compliance with any other federal, state, or local laws and/or regulations. The restore, reclaim, and re-vegetate the impacted surface area to the conditions to accordance with 19.15.29.13 NMAC including notification to the OCD where	notifications and perform corrective actions for releases which report by the OCD does not relieve the operator of liability ontamination that pose a threat to groundwater, surface water, 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: Sen	ior Environmental Scientist				
Signature:	Date: <u>5-22-2023</u>				
email: tjlong@eprod.comTelephone: (505) 599-2286				
OCD Only					
Received by:	Date:				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by: Nelson Velez	Date: 05/23/2023				
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv				
_					



CLOSURE REPORT

Property:

Lateral 2B-24 (12/16/22) Unit Letter F, S23 T28N R10W San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2235329560

May 8, 2023

Ensolum Project No. 05A1226224

Prepared for:

Enterprise Field Services, LLC

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

Prepared by:

Landon Daniell Staff Geologist Kyle Summers Senior Managing Geologist Enterprise Field Services, LLC Lateral 2B-24 (12/16/22)

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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 2B-24 (12/16/22) (Site)
NM EMNRD OCD Incident ID No.	NAPP2235329560
Location:	36.650466° North, 107.869131° West Unit Letter F, Section 23, 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 December 9, 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 December 16, 2022, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. Additionally, Enterprise determined the release was "reportable" due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced 19.15.29 New Mexico Administrative Code (NMAC), 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). No PODs with recorded depths to water were identified in the same Public Land Survey System (PLSS) section as the Site, and no PODS were identified in the adjacent PLSS sections (Figure A, Appendix B).
- Two cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site, and seven were identified in the adjacent



PLSS sections. These nine CPWs are depicted on Figure B (Appendix B). The four closest CPWs are located near the McClanahan A#1, A#2, and A#3, McClanahan #550, #15, and #9, Cain #11E, and Kutz Canyon #500 well locations. Documentation for the cathodic protection well located near the McClanahan A#1, A#2, and A#3 well locations indicates a depth to water of approximately 155 feet below grade surface (bgs). This cathodic protection well is located approximately 0.47 miles south of the Site and is approximately 112 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the McClanahan #550, #15, and #9 well locations indicates a depth to water of approximately 310 feet bgs. This cathodic protection well is located approximately 0.50 miles north of the Site and is approximately 123 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 0.79 miles northwest of the Site and is approximately 23 feet lower in elevation than the Site. 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 1.2 miles southwest of the Site and is approximately 33 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 ¹	Method	Limit	
Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg	
TPH (GRO+DRO+MRO) ²	EPA SW-846 Method 8015	100 mg/kg	
BTEX ³	EPA SW-846 Method 8021 or 8260	50 mg/kg	
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg	

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

3.0 SOIL REMEDIATION ACTIVITIES

On December 16, 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 14.5 feet long and 8 feet wide at the maximum extents. The maximum depth of the excavation measured approximately eight feet bgs. The flow path excavation measured approximately 96 feet long and 0.25 to 1 foot wide, with an approximate depth of 0.5 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sand.

Approximately 48 cubic yards (yd³) of petroleum hydrocarbon-affected soils and one barrel (bbl) of hydro-excavation soil cuttings and water 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**. After acceptable analytical results were obtained, the excavation was backfilled with imported fill and laboratory-confirmed stockpiled soil 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 seven composite soil samples (S-1 through S-7) from the pipeline excavation and two composite soil samples (FP-1 and FP-2) from the flow path excavation for laboratory analysis. In addition, two composite soil samples (SP-1 and SP-2) were collected from segregated, apparently unaffected stockpiled soils to determine if the material was suitable to use as backfill. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.



² – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

³ – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

First Sampling Event

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22)

On December 16, 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-5 (3'-5') was collected from the floor of the excavation. Composite soil samples S-1 (0'-5') and S-3 (0'-5') were collected from the sloped walls of the excavation. Composite soil samples S-2 (0'-3') and S-4 (0'-5') were collected from the walls of the excavation. Composite soil samples SP-1 and SP-2 were collected from the segregated stockpiled soils to verify that the soil did not exhibit COC impact and that it was suitable for use as backfill.

The southern wall was sloped after the collection of soil sample S-4, and the soil associated with S-4 was stockpiled separately from SP-1 and SP-2.

Subsequent soil analytical results identified TPH and chloride concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample S-5.

Second Sampling Event

In response to the exceedances of composite sample S-5 during the first sampling event, the excavation was extended in that area. The impacted soils were removed by excavation and transported to the landfarm for disposal/remediation. On December 20, 2022, the second 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 samples S-6 (3'-6') and S-7 (5'-8') were collected from the floor of the excavation to replace sample S-5 that had exceeded closure criteria. Composite soil sample FP-1 (0.25) was collected from the flow path.

Subsequent soil analytical results identified TPH and chloride 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.

Third Sampling Event

On January 10, 2023, a third sampling event was performed. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample FP-2 (0.25' to 0.5') was 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**.



Lateral 2B-24 (12/16/22)

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-4, S-6, S-7, FP-2, SP-1, and SP-2) to the applicable NM EMNRD OCD closure criteria. The soils associated with composite soil samples S-5 and FP-1 were excavated and removed from the Site, and are therefore, 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 associated with soil remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 10 mg/kg.
- The laboratory analytical results for all composite soil samples associated with soil remaining at the Site indicate that total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for all composite soil samples associated with soil 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 applicable NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for composite soil samples S-1, S-2, S-4, and SP-1 indicate chloride concentrations ranging from 80 mg/kg (S-2) to 110 mg/kg (S-1 and SP-1), which are less than the applicable NM EMNRD OCD criteria of 600 mg/kg. The laboratory analytical results for all other composite soil samples indicate that chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 600 mg/kg.

7.0 RECLAMATION AND REVEGETATION

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

8.0 FINDINGS AND RECOMMENDATION

- Eleven composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 48 yd³ of petroleum hydrocarbon-affected soils and one bbl of hydroexcavation soil cuttings and water 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 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

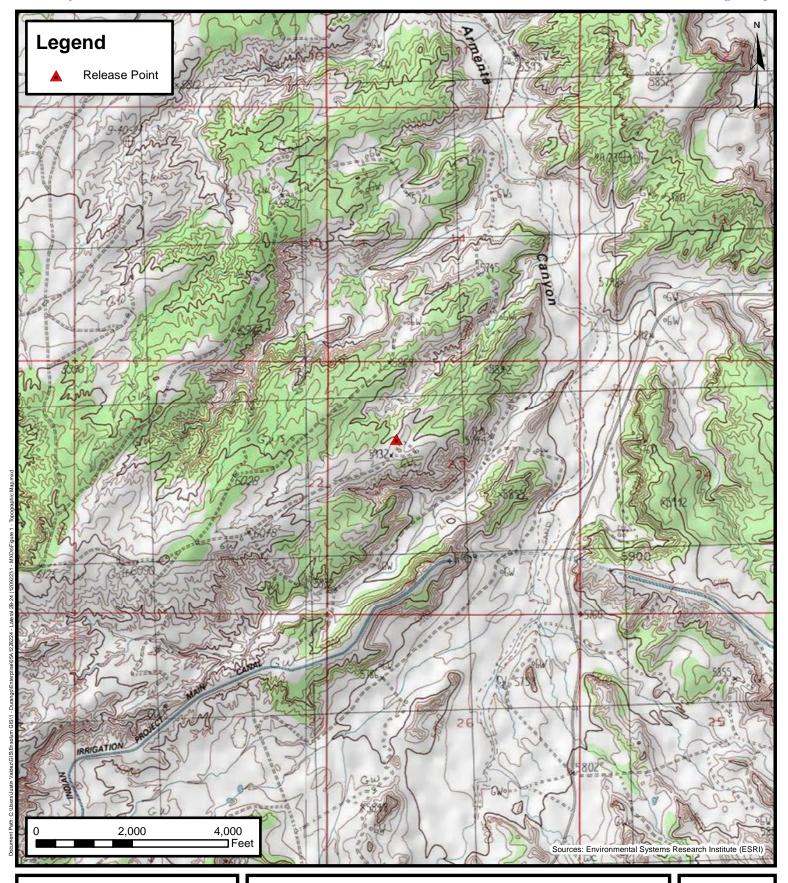
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution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





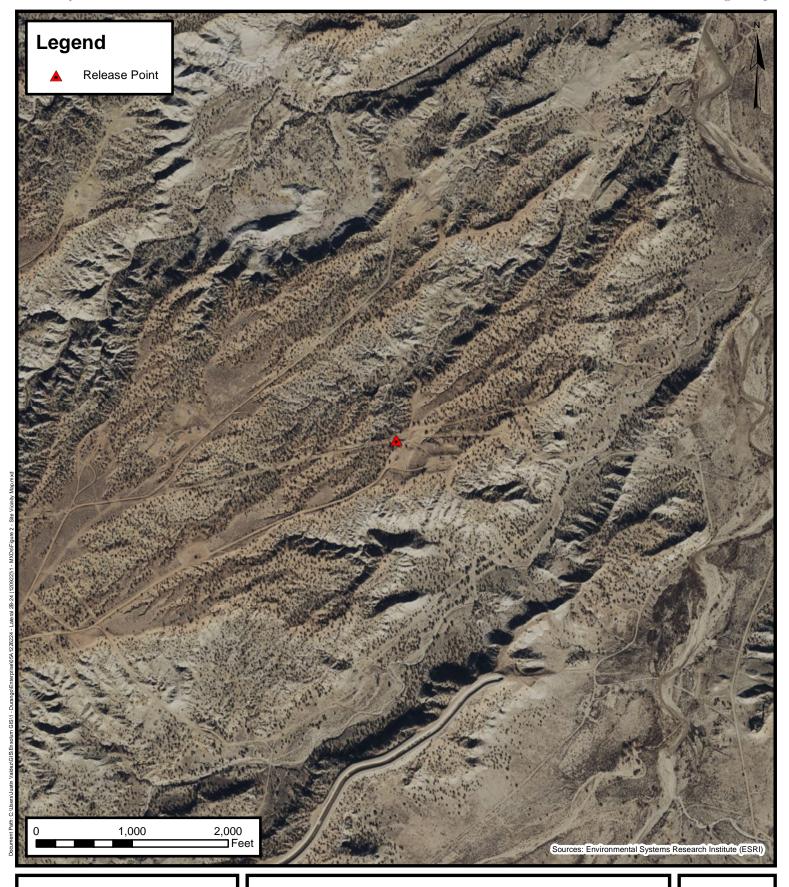
Topographic Map

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

FIGURE

1





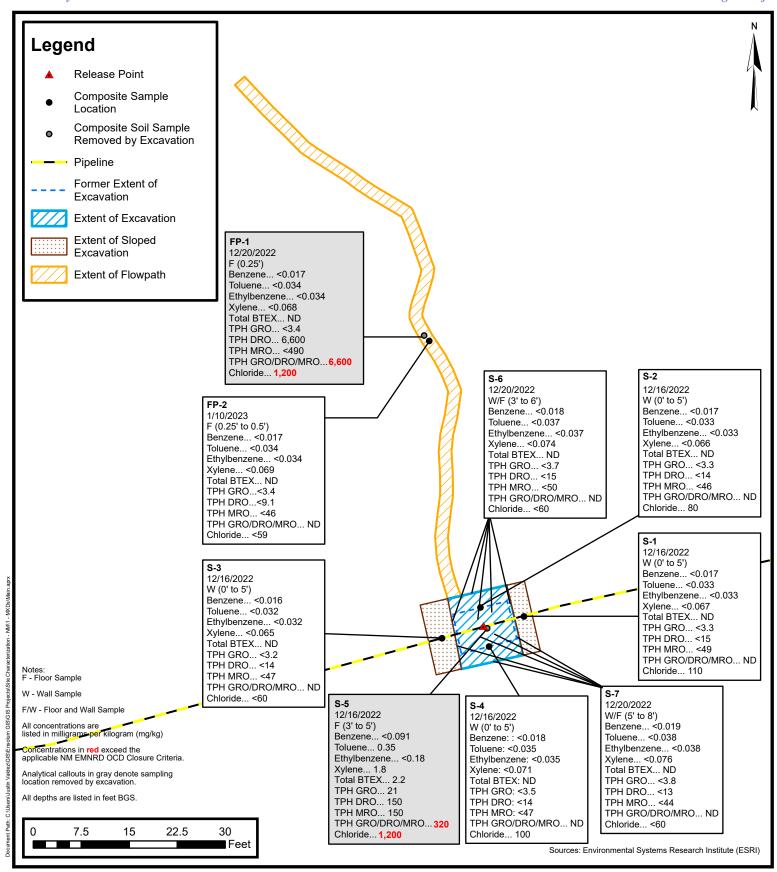
Site Vicinity Map

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

FIGURE 2

Released to Imaging: 5/23/2023 1:33:12 PM





Site Map with Soil Analytical Results

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

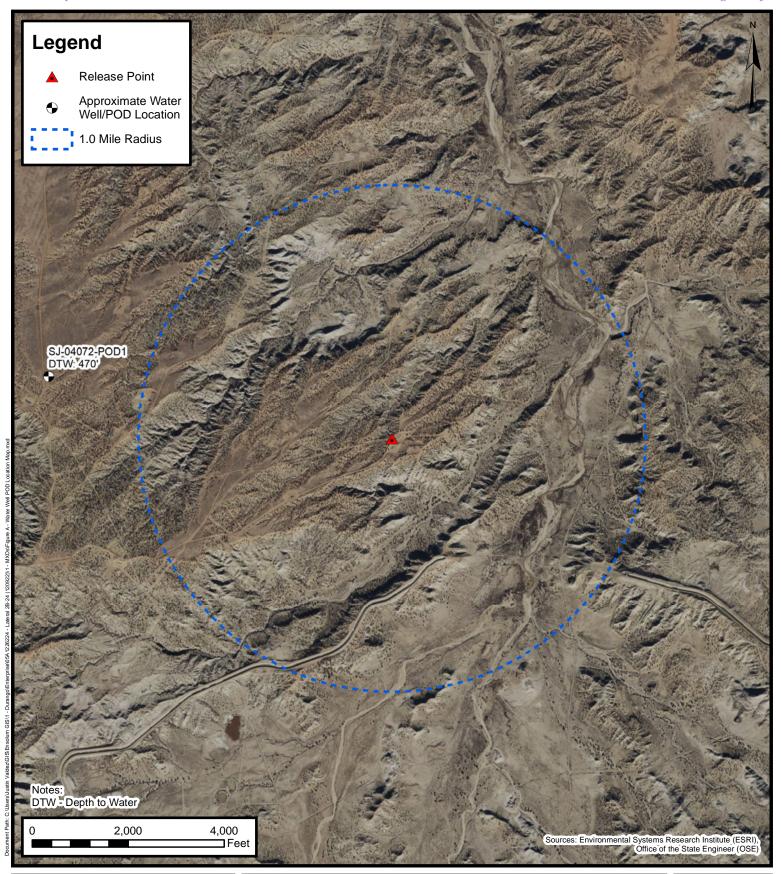
Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466° N, 107.869131° W

FIGURE 3



APPENDIX B

Siting Figures and Documentation



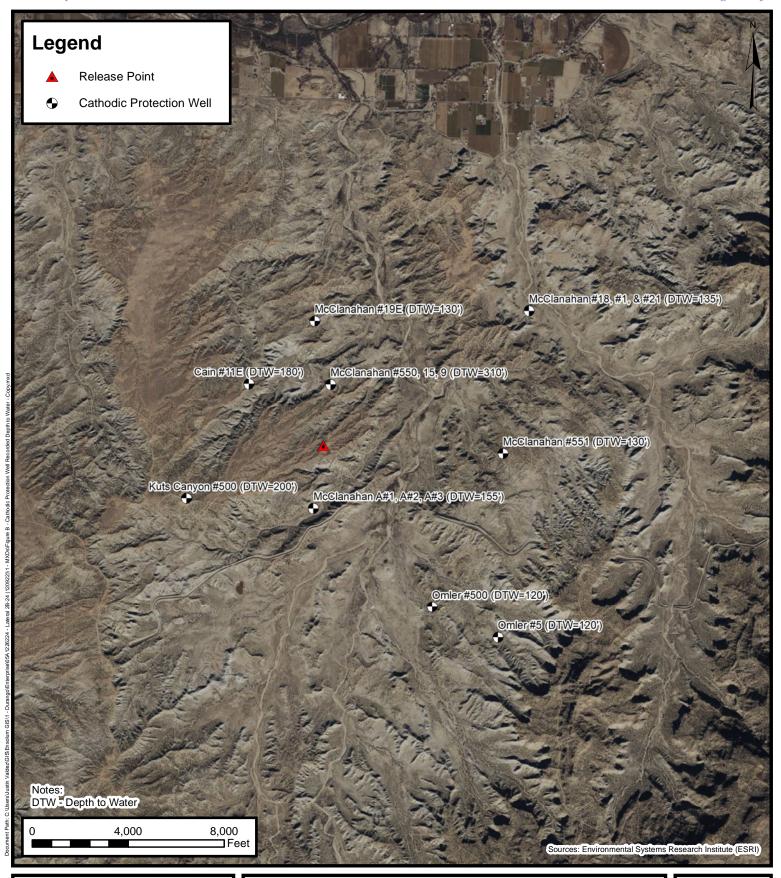


1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

FIGURE





CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

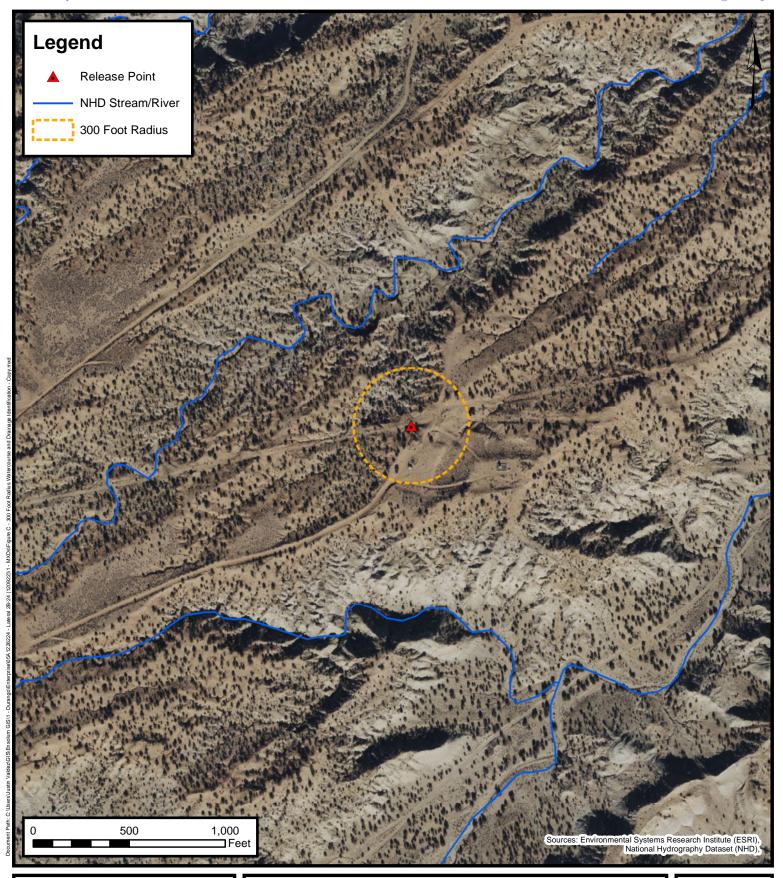
Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico

36.650466, -107.869131

FIGURE

B





300 Foot Radius Watercourse and Drainage Identification Enterprise Field Services, LLC

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

C

FIGURE





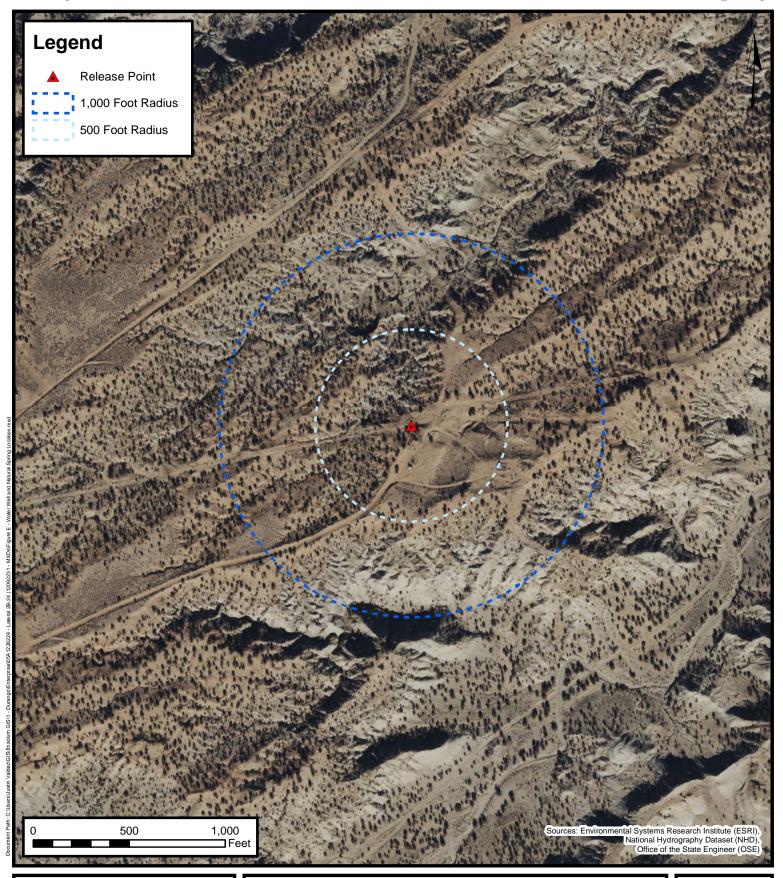
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

FIGURE

D



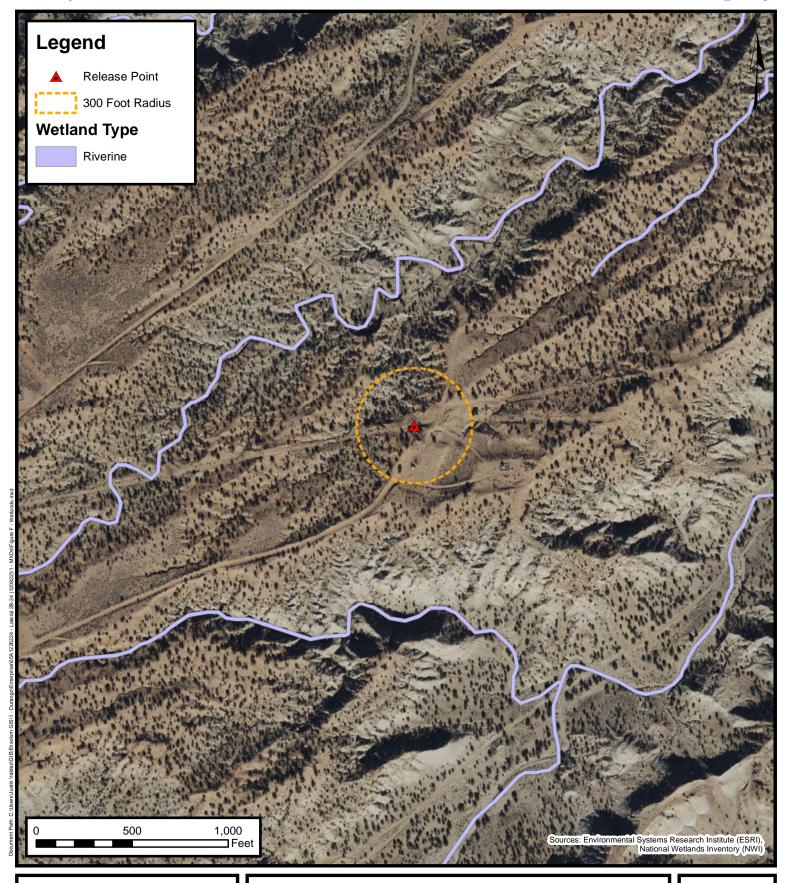


Water Well and

Natural Spring Location Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

FIGURE E





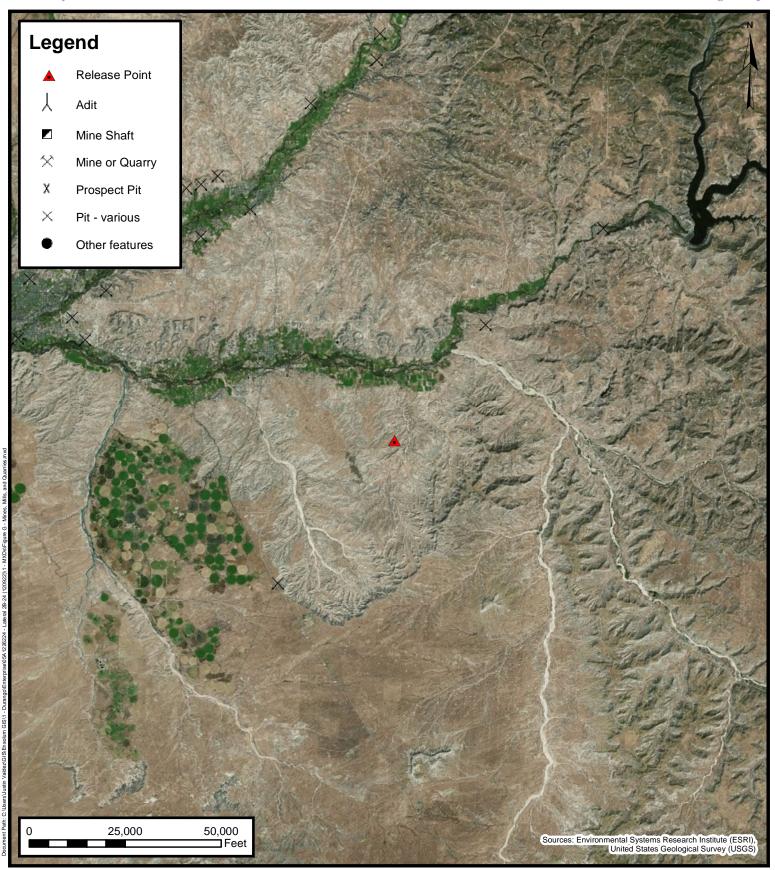
Wetlands

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

FIGURE

F





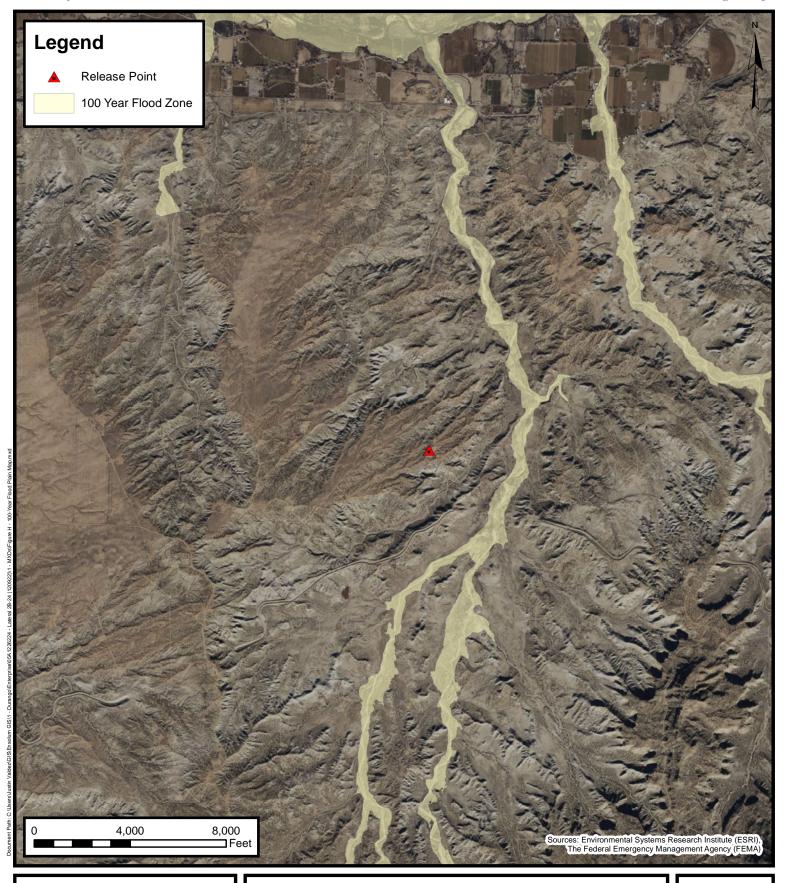
Mines, Mills, and Quarries

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

FIGURE

G





100-Year Flood Plain Map

Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Project Number: 05A1226224

Unit Letter F, S23, T28, R10W, San Juan County, New Mexico 36.650466, -107.869131

FIGURE



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

No records found.

PLSS Search:

Section(s): 23, 13, 14, 15, **Township:** 28N **Range:** 10W

22, 24, 25, 26,

27

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.

Location:



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

M22-28-10

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

Date Reported: 02-21-93

DISSOLVED SOLIDS:	me/L	mg/L	Detection Limit, mg/L
		And 11 A 1990 1990	
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-	¢.1	5.0	2.0
Sulfate, SO4	10.9	525	5.0
Bicarbonate, HCO3-	ND	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 60F: 1,0036

room temperature (F): 72

ND = Not Detected at the stated dectection limit

Methods: American Petrolium Institute, "Recommended Practice

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

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, 30-045-13069
Mc CIRNAHAN R"1, R"2, + R"3 30-045-24757
Elevation 58// Completion Date 2-52-93Total 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 <u>Cemented</u>
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: No 9 - 5
Ground bed depth with type & amount of coke breeze used: 413 with
20 (100/5) sacks Loresco S.W. and 80 (50/6) Asbury.
Depths anodes placed: 4/at 390' and 4/5 at 175'
Depths vent pipes placed: Bottom to surface DEPTHER
Vent pipe perforations: Up to 150
Remarks:
OIL CON. DIV.) 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.

Seile Fellen

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: Location:	McClanahan A M23-28-10	#2,#1,#3 G.bed	Date Analyzed: Date Reported:	

DISSOLVED SOLIDS:	m@/L	mg/L	Detection Limit, mg/L
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, CO3	0.4	12	1.0
Hydraxide, DH-	ND	ND	1.0
Total Dissolved Solids	(calculated):	4,200	10.0

OTHER PROPERTIES:

pM (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.

nalyst

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





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:			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	5.0
Chloride, Cl-	0.7	25	2.0
Sulfate, SO4	52.9	2,540	5.O
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

#15 30-045-07423

100

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

Operator Meridian OIL Location: Unit N Sec. 14 Twp 28-Rng 10 Name of Well/Wells or Pipeline Serviced Mcchanghan # 550, 15 Elevation 5800 Completion Date 12-6-91 Total Depth 497 Land Type F Casing Strings, Sizes, Types & Depths & Pro Surface Cas If Casing Strings are cemented, show amounts & types used ves with z Baas of Neat Gement If Cement or Bentonite Plugs have been placed, show depths & amounts used NA 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 7600 165 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 Asburg 4518 Vent pipe perforations: Bottom 300' Remarks: FFR2 4 1992

OIL COM. DIV.)
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 (.) . NUM) Altan H	550 IS	9		
K443	TOTAL	VOLTE	28.9	- 0HM#	DATE 12-6-91	NAME MW KB
REMARKS (n	otes fo	r constru	esion log;			

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

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

DEPTH	~.LOO	ANGDE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	Laa	ANGDE	
	ANODE	•		ANODE	*		ANODE	**		ANODE	•	
100			295			490	1.3		685			
105			300	·		495	TO 497		690			
110	3		305			500			695			
115			310			505			700	-		
120			315			510			ANODE	DEPTH	NO	FULL
-125			320	1.7		515			•		COKE	COKT
130			325	1.6		520			_ 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			4	440	2.8	66
150			345	2.3		540			5	430	2.6	6.2
155 #	Syria .		350 ·	2.4	12	545			- 6	415	2.5	66
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165	and the same of th		360	2.1		555			8	395	2.4	7.4
170			365	2.1	//	560			9	3.85	2.9	8.6
175			370	2.1		565			10	375	2.5	7.9
180			375	2.0	10	570			11	365	2.4	8.0
-185			380	2./		575			12	350	2.4	8.4
190			385	2.3	9	580			_13			
195	7		390	2.1		585			14			
200	and *		395	2.1	8	590			15			
205			400	2.2		595	l		16			
210			405	2.4		600	 		17			.]
215	. 21		410	2.3		<u>~605</u>	ļ		18			
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.225	***		420	1.6		615	ļ		20			
230			425	1.1		620	ļ		21			.
235			430	22		625		 	_22			.
240			435	2.4		630			_23_	.	.	.
245	\		440	126	4	635		 	24	-l	.	.
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260			455	2.8		650			27			
265		.	460 ·	2.6	2_	655	 		28			-
270			465	2.6		660			29		.	
275		.	470.	2.0		665			30	.		
280		.	475	1.0		670			∦	-	-	
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290	3000		<u>-485</u>	170	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	680	in the state of th		7.33.		*** ** ** **	
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Released to Imaging: 5/23/2023 T.33:12 PM Region Correction Separation

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

Operator Meridian Oil Inc. Location: Unit E	Sec./4 Twp58 Rng /O
Name of Well/Wells or Pipeline Serviced Mc Clanat	nan #19E
•	
Elevation 5900 Completion Date 2-15-95 Total Depth	
Casing Strings, Sizes, Types & Depths/00 of 8"	P.J.C.
If Casing Strings are cemented, show amounts & types with 17 sacks of type II cement.	used/emented
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.	F water: Fresh, 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	
	<u> </u>
Vent pipe perforations: Up to 120!	DECEMEN.
	DECENTED NAMED 1 1 1996

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

Elevation 5 completion Date 2-13-95 Total Depth 430 Land Type F Casing Strings, Sizes, Types & Depths 8" P.J.C. 40 100' If Casing Strings are cemented, show amounts & types used U6=0 17 Sacks of type II cement If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was elear Depths gas encountered: No gas Ground bed depth with type & amount of coke breeze used: 430' with 57 (5700/6) of lonesco Sw Depths anodes placed: 115 at 415 and 415 is at 230.	Operator Meridian Oil Location: Unit O Sec. 15 Twp 28 Rng 10
Casing Strings, Sizes, Types & Depths 8" P.J.C. 40 100' If Casing Strings are cemented, show amounts & types used Used 17 Sacks of type II cement. If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was clear Depths gas encountered: No gas Ground bed depth with type & amount of coke breeze used: 430' with \$7 (5700/6) of lonesco Sw Depths anodes placed: 1/15 at 415 and 1/5 is at 330 Depths vent pipes placed: Up to 180' Bottom to Surface	Name of Well/Wells or Pipeline Serviced (c,n #1/E
Casing Strings, Sizes, Types & Depths 8" Po.C. to 100' If Casing Strings are cemented, show amounts & types used Used 17 Sacks of type II cement. If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was clear Depths gas encountered: No gas Ground bed depth with type & amount of coke breeze used: 430' with \$7 (5700/6) of lonesco Sw Depths anodes placed: 1/15 at 415 and 1/5 is at 330 Depths vent pipes placed: Up to 180' Bottom to Surface	
If Casing Strings are cemented, show amounts & types used 0.62017 Sacks of type II cement. If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. $180'$ and was elear Depths gas encountered: No gos Ground bed depth with type & amount of coke breeze used: $430'$ with 67 ($5700/6$) of lones co sw Depths anodes placed: $1180'$ and $1180'$ Bottom to Surface	Elevation 5900 Completion Date 2-13-95 Total Depth 430 Land Type
If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was clear 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: 1/15 at 415 and 1/5 is at 330 Depths vent pipes placed: Up to 180' Bottom to Surface	Casing Strings, Sizes, Types & Depths 8" P.J.C. to 100
If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was clear 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: 1/15 at 415 and 1/5 is at 330 Depths vent pipes placed: Up to 180' Bottom to Surface	
If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was clear 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: 11saf 41sand 15 is af 330 with Depths vent pipes placed: Up to 180' Bottom to Surface	If Casing Strings are cemented, show amounts & types used $\frac{2829}{17}$
Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was alear Depths gas encountered: No gas Ground bed depth with type & amount of coke breeze used: 430' with 57 (5700/6) of lonesco sw Depths anodes placed: 11s of 415 and 15 is at 230 Depths vent pipes placed: Up to 180' Boltom to Surface	sacks of type II cement.
Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was clear 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: 115 at 415 and 15 is at 330 Depths vent pipes placed: Up to 180' Boltom to Surface	If Cement or Bentonite Plugs have been placed, show depths & amounts used
Salty, Sulphur, Etc. 180' and was alear Depths gas encountered: No gas Ground bed depth with type & amount of coke breeze used: 430' with 57 (5700/6) of lones co sw Depths anodes placed: 1/15 at 415 and 15 is at 230 Depths vent pipes placed: Up to 180' Bottom to Surface	No pluys
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: 1/15 at 415 and 15 is at 330 Depths vent pipes placed: Up 40 180' Bottom to Surface	Depths & thickness of water zones with description of water: Fresh, Clear,
Ground bed depth with type & amount of coke breeze used: 430'with 57 (5700/6) of lonesco Sw Depths anodes placed: 1/15 at 415 and 15 is at 330 Depths vent pipes placed: Up to 180' Boltom to Surface	Salty, Sulphur, Etc. 180'and was alear
Depths anodes placed: 4/15 at 415 and 6/5 is at 330 Depths vent pipes placed: Up to 180' Boltom to Surface	Depths gas encountered: No gos
Depths anodes placed: 1/15 at 415 and 15 is at 330 Depths vent pipes placed: Up to 180' Boltom to Surface	Ground bed depth with type & amount of coke breeze used: 430 with
Depths anodes placed: 1/15 at 415 and 15 is at 330 Depths vent pipes placed: Up to 180' Boltom to Surface	57 (5700/6) of lonesco Sw
	Depths anodes placed: 4/15 at 415 and 4/5 is at 330
Vent pipe perforations: Up to 180' DECEMBE	Depths vent pipes placed: Up to 180' Boltom to Surface
BE HE BE BE THE WAY OF THE BETT OF THE BET	Vent pipe perforations: Up to 180' DEGERRISE
Remarks: 1 1 1006	
ONL COM DEV	ANTI CORL DAY

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.

Received by OCD: 5/22/2023 2:34:42 PM - 07134

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

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

DISSOLVED SOLIDS:			Detection
	me/L	mg/L	Limit, mg/L
		1919 Augu au au	pun man min min ann ann an 1417 696 1998 3775
Calcium, Ca++	23.2	465	1.0
Magnesium, Mg++	5.1	62	1.0
Sodium, Na+ (calc)	25.1	577	5.0
Chloride, Cl-	0.4	13	2.0
Sulfate, 804	47.6	2,290	5.0
Bicarbonate, HCO3-	5.4	32 9	5.0
Carbonate, CO3	ND	ND	1.0
Hydroxide, OH-	ND	üИ	1.0
Total Dissolved Solids	(calculated):	3,730	10.0

OTHER PROPERTIES:

pH (units):	8.1
reisistivity (charmeters):	2.2
specific gravity at boff:	1,0073

room temperature (F): 72

ND = Not Detected at the stated dectection limit

Comments: Fruitland Coal

San Juan County, New Mexico

Sampled by R. Smith

Methods: American Fetroleum Institute, "Recommended Practice

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

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LABORATORY REPORT

OIL-FIELD WATER ANALYSIS

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

Lab Number:	25930315-06	Date Sampled:	02-23-93
Client:	Meridian Oil 2397 W	Date Received:	03-15-93
Sample ID:	Omler #5 groundbed	Date Analyzed:	03-17-93
Location:	025-28-10	Date Reported:	03-18-93

DISSOLVED SOLIDS:	me/L	mg/L	Detection Limit, mg/L
	VIII (SE	***********	
Calcium, Ca++	رسي سيود پيس مناب عالم است	465	1.0
Magnesium, Mg++	5. 1	62	1.0
Sodium, Na+ (calc)	25.1	577	5.0
Chloride, Cl-	O " 4	13	2.0
Sulfate, SO4	47.6	2,290	5.0
Bicarbonate, HCO3-	5.4	329	5.0
Carbonate,CO3	αи	ND	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids	(calculated):	3,730	10.0

OTHER PROPERTIES:

pH (units): 8.1 reisistivity (ohm-meters): 2.2 specific gravity at 60F: 1.0073

room temperature (F): 72

ND = Not Detected at the stated dectection limit

Comments: Fruitland Coal

San Juan County, New Mexico

Sampled by R. Smith

Methods: American Petroleum Institute, "Recommended Practice

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

analvet

Released to Imaging: 5/23/2023 1:33:12 PM

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

Operator MERIDIAN OIL INC.	Location: Unit L Sec. 25 Twp 28 Rng 10
Name of Well/Wells or Pipeline Servi	cedoMLER #500
	cps 2156w
Elevation 5825 Completion Date 6/23/89	Total Depth400' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have been N/A	en placed, show depths & amounts used
Depths & thickness of water zones with Fresh, Clear, Salty, Sulphur, Etc.	th description of water when possible:
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 300': 290', 280',	270', 260', 250', 195', 155', 145', 135'
Depths vent pipes placed: N/A	
Vent pipe perforations: 280'	DECEIVED
Remarks: gb #1	M MAY 3 1 1991
	OIL CON. DIVJ

If any of the above data is unavailable, please labicate 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.

FM-07-0238 (Rev. 10-82)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Page 38 of 92

				-		_		3-29
Drulling Log (Attach H	ereto)				C	omplețion I	Date 6 - 2	3 - 6 /
CPS #	Well Name, Line or Plant		Work Orde	er #	Static:		Ins Union Check	
21560		00	35	5817	. 81	7 //	Good	☐ Bad
Location	Anode Size	Anode Type		1,	Size Bit.			
	-10 2"x6	o" ninde Type	riro	1	Size Bit. 6 3/4			
Depth Drilled	Depth Logged	Drilling Rig Time,		Lbs Goke Used	Lost Circulation	n Mat'l Used	No Sacks Mud Us	ied
Anode Depth # 2 0 # 2 0	290 43280	# 4 2 20 #	5260	# 6 25-0	# 7/95	_{#8} /55	# 9/45	ی <i>خدر</i> 10 #
Anode Output (Amps) # 1 5. 2 # 2	5.9 #35.9	# 4 5 2 #	5 <i>4, 9</i>	حى رك 6 # إ	سی کے 7 #	1 8 5 , 1	# 9 5 ⁻ , 4	> ری ۱۵ #
Anode Depth # 11 # 12	# 13	# 14 # 1	15	! !# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)		≠ 14	15	# 16	! !# 17	# 18	# 19	# 20
Total Circuit Resiste		Ohms 4		No. 8 C.P. Cab			No. 2 C.P. Ca	
<u> </u>	ler said	-		· c _ 4	150	, ,) <u>-</u>	- + -	
Remarks:	foreted	2007	, ~			· 200	-) .	<u>/</u>
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			.00 V					
	0 V 16	A 105	1.00	/		411 C4-		
Addn'l Depth Depth Credit:/	60' 3.15		50		1	All Constit	ction Complete	a •
Extra Cable:	170' 30	455	· <u></u>		Kan	of I		,
Ditch & 1 Cable:	150' ,70		7.88	2		(5)	ignature)	
25 'Meter Pole: 20 ' Meter Pole:	312,50	GROU	JND BED L	_AYOUT SKET	сн	(3)	ignuture)	
10' Stub Pole:		_ 428	P5739	V OK9 2				
5 60x -	77,00			· /				
								4
			``\\ \C	•				

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30-045-27866

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

Operator Meridian Oct Location: Unit 6 Sec. 24 Twp 28-Rng 10
Name of Well/Wells or Pipeline Serviced // CLADAHAN #55/
Elevation 5875 Completion Date 12-5-91 Total Depth 395 Land Type F
Casing Strings, Sizes, Types & Depths 8" PUC Surface CASING
95' DEED
If Casing Strings are cemented, show amounts & types used 105 with 22 bags WEAT CEMENT
If Cement or Bentonite Plugs have been placed, show depths & amounts used \sim
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Fresh 130
Depths gas encountered: NO
Ground bed depth with type & amount of coke breeze used: 395' with 5400 165 of Loresco Type Sa
Depths anodes placed: 375,360,350,340,330,320,310,285,275,265,255,2
Depths vent pipes placed: 395 DECEIVED
Vent pipe perforations: bottom 270 FEB2 41992
Remarks: OIL CON. DIV.
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

CPS GROUND BED CONSTRUCTION WORKSHEET												
CP8*22	CPS#2269. PIL NAME(=). NUMBER(=) MCC_ANAHAN #551											
wo +	144	TOTAL	VOLTS	187	TA V	- 0	und un (PAT	2.5.91	NAME	24	
	REMARKS (DOTAL VOLTS 1.82 AMPS - OHMS 12.5.91 NAME M. 406 12.5.91 MANE											
	REMARKS (notes for construction log) 95 CASING 22 SACKS CENEUT											
	G24-28-10 WATER AT 130' Prilled 400', LOGGED 395											
674	<u>- 78-1</u>	0 0	DATER	AT 1		Prille	cl 401	0, k	066F	> 2 ()		
	Partura	45E17 b	~ E T () ()	170				,				
	141	· · · ·	01/01-1									
54	hAG5	Lores	CO									
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il	ANODE			ANODE	••		ANODE	•		ANODE	**	(
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105			300	1.1		495			690			
110		 	305	2.5		500			695			
115			310	<u>3.1-</u> 3.4		505			700			
120	1.4		315	3.3-	} ———	510			ANODE	DEPTH	70	FUL
130	1.6		32 0 325	3.3-	ļ ———	515 520			-	375	COKE	
135	1.6		330	3.5-		525			$\frac{1}{2}$	360	3.0	567777688777
140	1.6		335	3.7		530			3	350	3.5	1=
145	2.0	1	340	3.6		535			4	340	3.6	7
150	20		345	3.9		540			5	330	3.5	ーラ
155	20		350	3.5-		545			6	320		7
160	2.2		355	3.4		550			7	310	3.4 3.1	6.
165	2.2		360	2.8-		555			8	285	4.0	8.
170	2.2		365			560			9_	275	4.0	8.
175	2.6		370	2.5		565			10	265	3.5 3.7	13
180	21		375 38 0	2.6		570 575			$\frac{11}{12}$	255	3.7	1-4
190	18		385	20		580			13	245	3.4	├ ──
195	1.6		390	1.7		585			14	·		
200	1.5		395		395	590			15			
2 05	1.0		400			595			16			1
210	1.1		405			600			17			
215	1.5		410			605			18			
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225	1.2	{	420			615			20	 	 	.∤
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250	3.5		445			640			25	1		1
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250	38		455			650			27			
265	35-		460			655			28			
270	39		465			660			29			.
275	3.9	l ———	470			665			30		 	-
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2 85 2 90	1.0	 	480 485			675 680			l ———			·
- 230	1.0)	703			200				}	1	1

DISTRIBUTION - original - permanent CPS FILE

copy - Division Correction Supervisor

Received by OCD: 5/22/2023 2:34:42 PM

18 - 30 - 045 - 07513

1 - 30 - 045 - 07512

21-30-045-25362
DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Name of Well/Wells.or Pipeline Serviced Mc (/RNAHAN *18,*1, And *21 Elevation Completion Date 5/12/94 Total Depth 398 Land Type F Casing Strings, Sizes, Types & Depths 5/11 Sot 99 Of 8 PVC (Asing. NO GAS or Boulders, But Water At 45 Was Encountered During Casing If Casing Strings are cemented, show amounts & types used Comented WITH 30 SACKS. If Cement or Bentonite Plugs have been placed, show depths & amounts used None
Casing Strings, Sizes, Types & Depths 5/11 Set 99 Of 8"PVC CASING. No GAS or Boulders, But WATER AT 45, WAS ENCOUNTERED DURING CASING. If Casing Strings are cemented, show amounts & types used Comented WITH 30 SACKS. If Cement or Bentonite Plugs have been placed, show depths & amounts used.
Casing Strings, Sizes, Types & Depths 5/11 Set 99' Of 8" PVC CASING. No GAS or Boulders, But WATER AT 45, WAS ENCountered During Casing If Casing Strings are cemented, show amounts & types used Comented WITH 30 SACKS. If Cement or Bentonite Plugs have been placed, show depths & amounts used
No GAS or Boulders, But WATER AT 45, WAS ENCOUNTERED DURING CASING If Casing Strings are cemented, show amounts & types used ComenTed WITH 30 SACKS. If Cement or Bentonite Plugs have been placed, show depths & amounts used
If Casing Strings are cemented, show amounts & types used ComenTed WITH 30 SACKS. If Cement or Bentonite Plugs have been placed, show depths & amounts used
WITH 30 SACKS. If Cement or Bentonite Plugs have been placed, show depths & amounts used
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 Some Fresh WATER AT 135, And More
Fresh WATER AT 370. A WATER SAMPLE WAS TAKEN.
Depths gas encountered: Nowe
Ground bed depth with type & amount of coke breeze used: 398 DeoTH.
Used 103 SACKS OF ASbury 218R (5150#)
Depths anodes placed: 345,335,326,316,296,275,265,235,225,215,265,196,186,176, +145
Depths vent pipes placed: Sulface To 398,
Vent pipe perforations: Bottom 275.
Remarks: JAN 2 U 1995 2
OIL COM. 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.



APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE						
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	PayKey: RB21200 PM: ME Eddleman AFE: N61880						
2. Originating Site: Lateral 2B-24	711 21. (VOICO)						
3. Location of Material (Street Address, City, State or ULSTR): UL F Section 23 T28N R10W; 36.650466, -107.869131							
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 rel Estimated Volume 50 yd / bbls Known Volume (to be entered by the operator at the	he end of the haul) $48/1$ yd ³ /bbls						
5. GENERATOR CERTIFICATION STATEMENT OF	F WASTE STATUS						
I, Thomas Long, representative or authorized agent for Enterprise Products Of Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the regulatory determination, the above described waste is: (Check the appropriate classification)	US Environmental Protection Agency's July 1988						
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 characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed his subpart D, as amended. The following documentation is attached to demonstrate the the appropriate items)	azardous waste as defined in 40 CFR, part 261,						
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge	ge						
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STA	TEMENT FOR LANDFARMS						
I, Thomas Long 12-15-2022, representative for Enterprise Products Operatin Generator Signature the required testing/sign the Generator Waste Testing Certification.	ng authorizes Envirotech, Inc. to complete						
I, <u>Cway (white , representative for Envirotech, Inc.</u> representative samples of the oil field waste have been subjected to the paint filter test a have been found to conform to the specific requirements applicable to landfarms pursua of the representative samples are attached to demonstrate the above-described waste cor 19.15.36 NMAC.	int to Section 15 of 19.15.36 NMAC. The results						
5. Transporter: TBD							
OCD Permitted Surface Waste Management Facility	// NAME OF COST						
Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit Address of Facility: Hilltop, NM	#: NM 01-0011						
Method of Treatment and/or Disposal: ☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm	Landfill Other						
Waste Acceptance Status:	NIED (Must Be Maintained As Permanent Record)						
PRINT NAME: Careg Crabbres TITLE: Emiro Ma SIGNATURE: TELEPHONE NO.:	, ,						
Suppose trade transportant a series fractions regard							



APPENDIX D

Photographic Documentation

Closure Report Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Ensolum Project No. 05A1226224



Photograph 1

Photograph Description: View of the excavation (first sampling event).



Photograph 2

Photograph Description: View of the excavation (second sampling event).



Photograph 3

Photograph Description: View of the flow path (second sampling event).



SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Ensolum Project No. 05A1226224



Photograph 4

Photograph Description: View of the final flow path excavation.



Photograph 5

Photograph Description: View of the final flow path excavation.



Photograph 6

Photograph Description: View of the site after initial restoration.



SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Lateral 2B-24 (12/16/22) Ensolum Project No. 05A1226224



Photograph 7

Photograph Description: View of the site after initial restoration.





APPENDIX E

Regulatory Correspondence

From: Kyle Summers

To: <u>Landon Daniell</u>; <u>Ranee Deechilly</u>

Subject: FW: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

Date: Monday, January 9, 2023 10:14:49 AM

Attachments: image004.png

image005.png image006.png



Kyle Summers Principal 903-821-5603 Ensolum, LLC

PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC 8330 LBJ Freeway, Ste. 830 Dallas, TX 75243

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

Sent: Monday, January 9, 2023 10:03 AM

To: Long, Thomas <tjlong@eprod.com>; slandon@blm.gov

Subject: RE: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

[**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 <tilong@eprod.com>
Sent: Monday, January 9, 2023 9:47 AM

To: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>; <u>slandon@blm.gov</u>

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

Subject: FW: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

Nelson/Sherrie,

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 tomorrow January 10, 2023 at 1:00 p.m. at the Lateral 2B-24 flow path 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: Adeloye, Abiodun A <aadeloye@blm.gov>

Sent: Tuesday, December 27, 2022 7:48 AM

To: Long, Thomas <<u>tilong@eprod.com</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>;

Landon, Sherrie C < slandon@blm.gov>

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

Subject: RE: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

[Use caution with links/attachments]

Hi, Thomas, please report all ROW related spills to Sherrie Landon. I included her with this reply. She handles all ROW related spills.

Thank you.

Abiodun Adeloye (Emmanuel), NRS

Bureau of Land Management Farmington Field Office 6251 College Blvd., Suite A Farmington, NM 87402

Office Phone: 505-564-7665 Cell Phone: 505-635-0984

From: Long, Thomas <tilong@eprod.com>
Sent: Friday, December 23, 2022 4:20 PM

To: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>; Adeloye, Abiodun A

<aadeloye@blm.gov>

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

Subject: RE: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

Nelson/Emanual,

This email is a inform you that based on the preliminary data, we have completed the remediation at the Newsome #20. We met our 90 day deadline. Call or email if you have any questions.

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: Joyner, Ryan N < rjoyner@blm.gov>
Sent: Thursday, December 22, 2022 8:50 AM

To: Long, Thomas <<u>tilong@eprod.com</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>; Adeloye,
Abiodun A <<u>aadeloye@blm.gov</u>>

Subject: RE: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

[Use caution with links/attachments]

Thomas-

Sorry to have to keep saying this but I do not work for the Farmington Field Office anymore and have

not since July- I've notified you on several occasions. Please contact the Farmington Field Office and find out who you should be in contact with, likely Abiodun (Emanuel) Adeloye. I've CCd him on this message, please direct all your future correspondence regarding any BLM Farmington Field Office work to Abiodun or whomever is the correct contact for that office. Contacting me does not constitute contacting the correct BLM office prior to doing whatever you are asking permission to do, particularly if it is some kind of variance.

Please stop sending me these notifications.

Sincerely,
Ryan Joyner
Assistant Field Manager- Lands and Minerals
Tres Rios Field Office
BLM-Colorado
O.970.385.6289
C.970.799.6619

From: Long, Thomas < tilong@eprod.com > Sent: Thursday, December 22, 2022 8:39 AM

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

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

Subject: RE: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

Nelson/Ryan,

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 on December 22, 2022 at 3:00 p.m. at the Lateral 2B-24 excavation. One sample failed from Tuesday's sampling event. 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: Tuesday, December 20, 2022 4:11 PM

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

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

Subject: RE: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

[Use caution with links/attachments]

Tom,

Thank you for the notice. Per our telecommunication earlier this afternoon, your variance request specifically addressing 19.15.29.12D (1a) NMAC was verbally approved.

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 < tilong@eprod.com > Sent: Tuesday, December 20, 2022 2:23 PM

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

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

Subject: RE: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

Nelson/Ryan,

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 on December 20, 2022 at 3:00 p.m. at the Lateral 2B-24 excavation. This will probably complete the remediation if all samples pass. 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, December 16, 2022 7:26 AM

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

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

Subject: RE: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

[Use caution with links/attachments]

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.

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, December 16, 2022 7:19 AM

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

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

Subject: [EXTERNAL] Lateral 2B-24 - UL F Section 26 T28N R10W; 36.650466, -107.869131

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

Nelson/Ryan,

This email is a notification and a variance request. Enterprise had are release of natural gas and natural gas liquids on the Lateral 2B-24 pipeline on December 9, 2022. The pipeline was isolated, depressurized, locked and tagged out. No fires nor injuries occurred. No waterways were affected. Enterprise began repairs and remediation on December 15, 2022 and determined the release reportable per NMOCD regulation. 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 December 16, 2022 at 10:00 a.m. 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



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



							al 2B-24 (12/1 IALYTICAL SU						
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
	Depa onservation Div	neral & Natural F artment vision Closure C ier I)		10	NE	NE	NE	50	NE	NE	NE	100	600
			С	omposite Soil	Samples Remo	ved by Excavation	on and Transpo	orted to the Land	dfarm for Dispo	sal/Remediatio	n		
S-5	12.16.22	С	3 to 5	<0.091	0.35	<0.18	1.8	2.2	21	150	150	320	1,200
FP-1	12.20.22	С	0.25	<0.017	<0.034	<0.034	<0.068	ND	<3.4	6,600	<490	6,600	1,200
					Com	posite Soil Samp	les Collected t	from Stockpiled	Soils				
SP-1	12.16.22	С	Stockpile	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<15	<50	ND	110
SP-2	12.16.22	С	Stockpile	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<15	<50	ND	<60
						Flow Path	Composite So	oil Sample					
FP-2	1.10.23	С	0.25 to 0.5	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<9.1	<46	ND	<59
						Excavation	Composite So	oil Samples					
S-1	12.16.22	С	0 to 5	<0.017	< 0.033	< 0.033	< 0.067	ND	<3.3	<15	<49	ND	110

< 0.066

< 0.065

< 0.071

< 0.074

< 0.076

ND

ND

ND

ND

ND

<14

<14

<14

<15

<13

<46

<47

<47

<50

<44

ND

ND

ND

ND

ND

80

<60

100

<60

<60

<3.3

<3.2

<3.5

<3.7

<3.8

TABLE 1

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

С

С

С

С

0 to 5

0 to 5

0 to 5

3 to 6

5 to 8

< 0.017

< 0.016

<0.018

<0.018

< 0.019

< 0.033

< 0.032

< 0.035

< 0.037

<0.038

< 0.033

< 0.032

< 0.035

< 0.037

< 0.038

NE = Not established

S-2

S-3

S-4

S-6

S-7

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

12.16.22

12.16.22

12.16.22

12.20.22

12.20.22

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

^{1 =} 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

December 21, 2022

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 2B 24 OrderNo.: 2212A80

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 12/17/2022 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2212A80

Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

Project: Lateral 2B 24 **Collection Date:** 12/16/2022 10:00:00 AM

Lab ID: 2212A80-001 **Matrix:** MEOH (SOIL) **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	110	60	mg/Kg	20	12/19/2022 11:30:30 AM	1 72170
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/18/2022 1:00:38 PM	72164
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/18/2022 1:00:38 PM	72164
Surr: DNOP	113	21-129	%Rec	1	12/18/2022 1:00:38 PM	72164
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	12/18/2022 12:10:34 PM	1 A93375
Surr: BFB	84.3	37.7-212	%Rec	1	12/18/2022 12:10:34 PM	1 A93375
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	12/18/2022 12:10:34 PM	1 C93375
Toluene	ND	0.033	mg/Kg	1	12/18/2022 12:10:34 PM	1 C93375
Ethylbenzene	ND	0.033	mg/Kg	1	12/18/2022 12:10:34 PM	1 C93375
Xylenes, Total	ND	0.067	mg/Kg	1	12/18/2022 12:10:34 PM	1 C93375
Surr: 4-Bromofluorobenzene	83.9	70-130	%Rec	1	12/18/2022 12:10:34 PM	1 C93375

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 11

Lab Order 2212A80

Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

Project: Lateral 2B 24 **Collection Date:** 12/16/2022 10:05:00 AM

Lab ID: 2212A80-002 Matrix: MEOH (SOIL) Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	80	60	mg/Kg	20	12/19/2022 11:42:54 AM	72170
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/18/2022 1:11:05 PM	72164
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/18/2022 1:11:05 PM	72164
Surr: DNOP	105	21-129	%Rec	1	12/18/2022 1:11:05 PM	72164
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	12/18/2022 12:33:50 PM	A93375
Surr: BFB	83.5	37.7-212	%Rec	1	12/18/2022 12:33:50 PM	A93375
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.017	mg/Kg	1	12/18/2022 12:33:50 PM	C93375
Toluene	ND	0.033	mg/Kg	1	12/18/2022 12:33:50 PM	C93375
Ethylbenzene	ND	0.033	mg/Kg	1	12/18/2022 12:33:50 PM	C93375
Xylenes, Total	ND	0.066	mg/Kg	1	12/18/2022 12:33:50 PM	C93375
Surr: 4-Bromofluorobenzene	83.2	70-130	%Rec	1	12/18/2022 12:33:50 PM	C93375

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 standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2212A80

Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

Project: Lateral 2B 24 **Collection Date:** 12/16/2022 10:10:00 AM

Lab ID: 2212A80-003 Matrix: MEOH (SOIL) Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	12/19/2022 11:55:19 AM	1 72170
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/18/2022 1:22:48 PM	72164
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/18/2022 1:22:48 PM	72164
Surr: DNOP	106	21-129	%Rec	1	12/18/2022 1:22:48 PM	72164
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	12/18/2022 12:57:07 PM	1 A93375
Surr: BFB	85.1	37.7-212	%Rec	1	12/18/2022 12:57:07 PM	1 A93375
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.016	mg/Kg	1	12/18/2022 12:57:07 PM	1 C93375
Toluene	ND	0.032	mg/Kg	1	12/18/2022 12:57:07 PM	1 C93375
Ethylbenzene	ND	0.032	mg/Kg	1	12/18/2022 12:57:07 PM	1 C93375
Xylenes, Total	ND	0.065	mg/Kg	1	12/18/2022 12:57:07 PM	1 C93375
Surr: 4-Bromofluorobenzene	83.2	70-130	%Rec	1	12/18/2022 12:57:07 PM	1 C93375

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 standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2212A80

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

CLIENT: ENSOLUM Client Sample ID: S-4

Project: Lateral 2B 24 **Collection Date:** 12/16/2022 10:20:00 AM

Lab ID: 2212A80-004 **Matrix:** MEOH (SOIL) **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	100	60	mg/Kg	20	12/19/2022 12:07:44 PM	1 72170
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/18/2022 1:33:17 PM	72164
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/18/2022 1:33:17 PM	72164
Surr: DNOP	105	21-129	%Rec	1	12/18/2022 1:33:17 PM	72164
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	12/18/2022 1:20:20 PM	A93375
Surr: BFB	83.0	37.7-212	%Rec	1	12/18/2022 1:20:20 PM	A93375
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.018	mg/Kg	1	12/18/2022 1:20:20 PM	C93375
Toluene	ND	0.035	mg/Kg	1	12/18/2022 1:20:20 PM	C93375
Ethylbenzene	ND	0.035	mg/Kg	1	12/18/2022 1:20:20 PM	C93375
Xylenes, Total	ND	0.071	mg/Kg	1	12/18/2022 1:20:20 PM	C93375
Surr: 4-Bromofluorobenzene	83.1	70-130	%Rec	1	12/18/2022 1:20:20 PM	C93375

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

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Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 2212A80

12/18/2022 1:43:36 PM C93375

Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

Project: Lateral 2B 24 Collection Date: 12/16/2022 10:25:00 AM Lab ID: 2212A80-005 Matrix: MEOH (SOIL) Received Date: 12/17/2022 10:00:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 1200 60 mg/Kg 12/19/2022 12:44:58 PM 72170 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 14 mg/Kg 12/19/2022 3:32:00 PM Motor Oil Range Organics (MRO) 150 48 mg/Kg 1 12/19/2022 3:32:00 PM 72164 Surr: DNOP 122 21-129 %Rec 12/19/2022 3:32:00 PM 72164 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 12/18/2022 1:43:36 PM Gasoline Range Organics (GRO) 21 5 A93375 18 mg/Kg Surr: BFB 108 37.7-212 12/18/2022 1:43:36 PM %Rec **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.091 12/18/2022 1:43:36 PM Benzene mg/Kg 5 C93375 Toluene 0.35 0.18 mg/Kg 12/18/2022 1:43:36 PM Ethylbenzene ND 0.18 mg/Kg 5 12/18/2022 1:43:36 PM C93375 Xylenes, Total 0.36 mg/Kg 5 12/18/2022 1:43:36 PM C93375 1.8

84.2

70-130

%Rec

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Lab Order 2212A80

Date Reported: 12/21/2022

12/18/2022 2:06:55 PM C93375

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-1

Project: Lateral 2B 24 Collection Date: 12/16/2022 10:30:00 AM Lab ID: 2212A80-006 Matrix: MEOH (SOIL) Received Date: 12/17/2022 10:00:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 110 60 mg/Kg 12/19/2022 12:57:22 PM 72170 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 15 mg/Kg 12/18/2022 1:54:21 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 12/18/2022 1:54:21 PM 72164 Surr: DNOP 108 21-129 %Rec 12/18/2022 1:54:21 PM 72164 Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 12/18/2022 2:06:55 PM Gasoline Range Organics (GRO) ND A93375 4.0 mg/Kg Surr: BFB 128 37.7-212 %Rec 12/18/2022 2:06:55 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.020 12/18/2022 2:06:55 PM Benzene mg/Kg C93375 Toluene ND 0.040 mg/Kg 12/18/2022 2:06:55 PM Ethylbenzene ND 0.040 mg/Kg 1 12/18/2022 2:06:55 PM C93375 Xylenes, Total ND 0.079 mg/Kg 12/18/2022 2:06:55 PM C93375 Surr: 4-Bromofluorobenzene 70-130

101

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value

%Rec

- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Lab Order **2212A80**Date Reported: **12/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-2

Project: Lateral 2B 24 **Collection Date:** 12/16/2022 10:35:00 AM

Lab ID: 2212A80-007 **Matrix:** MEOH (SOIL) **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	12/19/2022 1:09:46 PM	72170
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/18/2022 2:04:54 PM	72164
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/18/2022 2:04:54 PM	72164
Surr: DNOP	114	21-129	%Rec	1	12/18/2022 2:04:54 PM	72164
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	12/18/2022 3:16:56 PM	A93375
Surr: BFB	86.0	37.7-212	%Rec	1	12/18/2022 3:16:56 PM	A93375
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	12/18/2022 3:16:56 PM	C93375
Toluene	ND	0.035	mg/Kg	1	12/18/2022 3:16:56 PM	C93375
Ethylbenzene	ND	0.035	mg/Kg	1	12/18/2022 3:16:56 PM	C93375
Xylenes, Total	ND	0.070	mg/Kg	1	12/18/2022 3:16:56 PM	C93375
Surr: 4-Bromofluorobenzene	85.1	70-130	%Rec	1	12/18/2022 3:16:56 PM	C93375

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

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Hall Environmental Analysis Laboratory, Inc.

2212A80 21-Dec-22

WO#:

Client: ENSOLUM
Project: Lateral 2B 24

Sample ID: MB-72170 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72170 RunNo: 93390

Prep Date: 12/19/2022 Analysis Date: 12/19/2022 SeqNo: 3369283 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-72170 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72170 RunNo: 93390

Prep Date: 12/19/2022 Analysis Date: 12/19/2022 SeqNo: 3369284 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.9 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 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

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Hall Environmental Analysis Laboratory, Inc.

2212A80 21-Dec-22

WO#:

Client: ENSOLUM Project: Lateral 2B 24

Sample ID: LCS-72164	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 721	164	F	RunNo: 9:	3383				
Prep Date: 12/18/2022	Analysis D	oate: 12	/18/2022	9	SeqNo: 3	367600	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	82.0	64.4	127			
Surr: DNOP	5.2		5.000		104	21	129			

Sample ID: MB-72164	SampT	уре: МЕ	LK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 72 1	64	F	RunNo: 93	3383				
Prep Date: 12/18/2022	Analysis D	ate: 12	/18/2022	5	SeqNo: 33	367602	Units: mg/K	g		
Analyte	Result	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	9.7		10.00		97.3	21	129			

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 standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2212A80 21-Dec-22

WO#:

Client: ENSOLUM
Project: Lateral 2B 24

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

Client ID: PBS Batch ID: A93375 RunNo: 93375

Prep Date: Analysis Date: 12/18/2022 SeqNo: 3367045 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 900 1000 89.8 37.7 212

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

Client ID: LCSS Batch ID: A93375 RunNo: 93375

1900

Prep Date: Analysis Date: 12/18/2022 SeqNo: 3367046 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 103 72.3 137

185

37.7

212

Qualifiers:

Surr: BFB

- 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

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Hall Environmental Analysis Laboratory, Inc.

2212A80 21-Dec-22

WO#:

Client: ENSOLUM
Project: Lateral 2B 24

Sample ID: mb	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: C9 :	3375	F	RunNo: 93	3375				
Prep Date:	Analysis [Date: 12	/18/2022	9	SeqNo: 33	367082	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	0.90		1.000		90.0	70	130			

Sample ID: 100ng btex lcs	Samp ¹	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: C9 :	3375	F	RunNo: 93	3375				
Prep Date:	Analysis [Date: 12	/18/2022	9	SeqNo: 33	367083	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.5	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

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
- 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

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Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 5/23/2023 1:33:12 PM

570000 S7000000	_								
Client Name:	ENSOLUM		Work	Order Num	nber: 2212	08A		RcptNc	: 1
Received By:	Desiree D	ominguez	12/17/2	022 10:00:	00 AM		TO		
Completed By:	Desiree D	ominguez	12/17/2	022 10:37:	47 AM		TO		
Reviewed By: (Cm		12/19	122					
Chain of Cust	od <u>v</u>								
1. Is Chain of Cu	stody comp	lete?			Yes	V	No 🗌	Not Present	
2. How was the s	ample deliv	ered?			Cour	<u>ier</u>			
Log In 3. Was an attempt	ot made to d	cool the sampl	es?		Yes	V	No 🗌	na 🗌	
4. Were all sample	es received	at a temperat	ture of >0° C t	to 6.0°C	Yes	✓	No 🗌	NA 🗆	
5. Sample(s) in p	roper conta	iner(s)?			Yes	V	No 🗌		
6. Sufficient samp	ole volume f	or indicated te	st(s)?		Yes	✓	No 🗌		
7. Are samples (e				ed?	Yes	V	No 🗌		
8. Was preservati	ve added to	bottles?			Yes		No 🗹	NA 🗆	
9. Received at lea	st 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No 🗆	NA 🗹	
10. Were any sam	ple containe	ers received be	roken?		Yes		No 🗹	# of preserved bottles checked	
11.Does paperwor (Note discrepar)		Yes	V	No 🗆	for pH:	₽>12 unless noted)
12. Are matrices co	orrectly iden	tified on Chair	of Custody?		Yes	V	No 🗌	Adjusted?	
13. Is it clear what	analyses we	ere requested	?		Yes	✓	No 🗌		
14. Were all holdin (If no, notify cu	-				Yes	V	No 🗌	Checked by:	DAD 12/17/22
Special Handli	ng (if app	olicable)							
15. Was client not	ified of all di	iscrepancies v	vith this order?	•	Yes		No 🗌	NA 🗹	_
Person N	Notified:			Date	e: [-			
By Whor	n:			Via:		ail 🗌] Phone [Fax	☐ In Person	
Regardir	ng:			-					
Client In:	structions:								
16. Additional rem	narks:								
17. Cooler Inform	nation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed By		
1	0.7	Good	Yes		9				

Received by OCD: 5/22/2023 2:34:42 PM

Chain-of-Custody Record	urn-Around Ime:	Carre		2		1		NITA	
Client: Fresolver, LLC	□ Standard X Rush 100%	100% Day		ANA	ALYS	S	ANALYSTS LABORATORY	TORY	
] 	ר		*	www.hallenvironmental.com	ronmen	tal.com		
Mailing Address: 606 S. Rio Crande, Suitet	Laheral	2B-24	4901	4901 Hawkins NE -		ndnerdr	Albuquerque, NM 87109		
	roject #:	damp of the Carlo	Tel. 8	505-345-3975	- 33	Fax 505	505-345-4107		
	See Note.	63			Analy	Analysis Request	luest		
email or Fax#: Kgumers@ensolumcaRroject Manager:	Project Manager:				Ż⊖((ţu		
QA/QC Package:	\ \ \		ЯM				əsq		
☐ Standard ☐ Level 4 (Full Validation)	V. 522	unmers	/ O				A∖tn		
:uo	or L. Dani	13	\ DŁ	(1.t	' ^z ON	(
	K Yes	No	OΣ	20	s	AC			
□ EDD (Type)	# of Coolers: \		(GI	ро				IR-	_
	Cooler Temp(Including CF): 0,8-0.1-0.7	3-0-1=0.7 (°C)	190	црэ					
	Container Preservative	HEAL No.	EX / H:80	M) 8	3 AA:	S) 02 A) 09	oO lei	£0.8	
Date Time Matrix Sample Name	#	2212A80	ΙДΤ	ED	- 1	-			
12 S S S	1402 Jan (00)	100-	X		X		TOTAL BETTER BASE	100	
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Date: Time: Relinedished by	Received by: Via:	F		20	Key: RB21200	RBZ	1200	10.5	
J. 1804 LANNO 1208/ 2014	200 COULTE	12/12/2010		2	子品	2	N61880		

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: \$\infty23/2023 1:33:12 PM\$



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

December 30, 2022

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603

FAX

RE: Lateral 2B-24 Dec 2022 OrderNo.: 2212B98

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/21/2022 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 2212B98

Date Reported: 12/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-6

Project: Lateral 2B-24 Dec 2022 **Collection Date:** 12/20/2022 2:35:00 PM Lab ID: 2212B98-001 Matrix: MEOH (SOIL) Received Date: 12/21/2022 6:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	12/21/2022 11:21:07 AM 72246
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/21/2022 12:18:42 PM 72244
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2022 12:18:42 PM 72244
Surr: DNOP	120	21-129	%Rec	1	12/21/2022 12:18:42 PM 72244
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	12/21/2022 9:38:32 AM A93454
Surr: BFB	86.4	37.7-212	%Rec	1	12/21/2022 9:38:32 AM A93454
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.018	mg/Kg	1	12/21/2022 9:38:32 AM C93454
Toluene	ND	0.037	mg/Kg	1	12/21/2022 9:38:32 AM C93454
Ethylbenzene	ND	0.037	mg/Kg	1	12/21/2022 9:38:32 AM C93454
Xylenes, Total	ND	0.074	mg/Kg	1	12/21/2022 9:38:32 AM C93454
Surr: 4-Bromofluorobenzene	85.2	70-130	%Rec	1	12/21/2022 9:38:32 AM C93454

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 standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 1 of 8

Analytical Report Lab Order 2212B98

Date Reported: 12/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-7

Project: Lateral 2B-24 Dec 2022 **Collection Date:** 12/20/2022 2:40:00 PM

Lab ID: 2212B98-002 Matrix: MEOH (SOIL) Received Date: 12/21/2022 6:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	12/21/2022 11:33:32 AM 72246
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 12:29:13 PM 72244
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/21/2022 12:29:13 PM 72244
Surr: DNOP	112	21-129	%Rec	1	12/21/2022 12:29:13 PM 72244
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	12/21/2022 10:02:03 AM A93454
Surr: BFB	88.8	37.7-212	%Rec	1	12/21/2022 10:02:03 AM A93454
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	12/21/2022 10:02:03 AM C93454
Toluene	ND	0.038	mg/Kg	1	12/21/2022 10:02:03 AM C93454
Ethylbenzene	ND	0.038	mg/Kg	1	12/21/2022 10:02:03 AM C93454
Xylenes, Total	ND	0.076	mg/Kg	1	12/21/2022 10:02:03 AM C93454
Surr: 4-Bromofluorobenzene	88.1	70-130	%Rec	1	12/21/2022 10:02:03 AM C93454

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 standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 2 of 8

Analytical Report Lab Order 2212B98

Date Reported: 12/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-1

Project: Lateral 2B-24 Dec 2022 Collection Date: 12/20/2022 2:45:00 PM Lab ID: 2212B98-003 Matrix: MEOH (SOIL) Received Date: 12/21/2022 6:30:00 AM

Result **RL Oual Units DF** Date Analyzed Analyses **Batch** Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride 1200 60 mg/Kg 20 12/21/2022 11:45:57 AM 72246 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 6600 150 mg/Kg 12/28/2022 10:03:04 PM 72244 ND Motor Oil Range Organics (MRO) 490 D mg/Kg 12/28/2022 10:03:04 PM 72244 Surr: DNOP S 12/28/2022 10:03:04 PM 72244 0 21-129 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/21/2022 10:25:33 AM A93454 3.4 mg/Kg 1 Surr: BFB 83.3 %Rec 12/21/2022 10:25:33 AM A93454 37.7-212 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 12/21/2022 10:25:33 AM C93454 Benzene 0.017 mg/Kg Toluene ND 0.034 mg/Kg 12/21/2022 10:25:33 AM C93454 Ethylbenzene ND 0.034 mg/Kg 1 12/21/2022 10:25:33 AM C93454 Xylenes, Total ND 0.068 mg/Kg 12/21/2022 10:25:33 AM C93454 Surr: 4-Bromofluorobenzene 12/21/2022 10:25:33 AM C93454 83.4 70-130 %Rec

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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212B98**

30-Dec-22

Client: ENSOLUM

Project: Lateral 2B-24 Dec 2022

Sample ID: MB-72246 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72246 RunNo: 93460

Prep Date: 12/21/2022 Analysis Date: 12/21/2022 SeqNo: 3372167 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-72246 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72246 RunNo: 93460

Prep Date: 12/21/2022 Analysis Date: 12/21/2022 SeqNo: 3372168 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 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 Quanitative Limit

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212B98** *30-Dec-22*

Client: ENSOLUM

Project: Lateral 2B-24 Dec 2022

Sample ID: 2212B98-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **S-6** Batch ID: **72244** RunNo: **93461**

Prep Date: 12/21/2022 Analysis Date: 12/21/2022 SeqNo: 3370978 Units: mg/Kg

%RPD Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 62 13 43.52 Λ 144 36.1 154 Surr: DNOP 5.4 4.352 125 21 129

Sample ID: 2212B98-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-6 Batch ID: 72244 RunNo: 93461

Prep Date: 12/21/2022 Analysis Date: 12/21/2022 SeqNo: 3370979 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 43 12 41.46 O 104 36.1 154 36.5 33.9 R Surr: DNOP 4.8 4.146 116 21 129 0

Sample ID: LCS-72244 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 72244 RunNo: 93461 Prep Date: 12/21/2022 Analysis Date: 12/21/2022 SeqNo: 3370984 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result POI LowLimit Qual Diesel Range Organics (DRO) 44 15 50.00 0 87.2 64.4 127 Surr: DNOP 5.9 5.000 118 21 129

Sample ID: MB-72244 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 72244 RunNo: 93461 Prep Date: 12/21/2022 Analysis Date: 12/21/2022 SeqNo: 3370986 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD Result PQL HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 12 10.00 116 129 21

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID: MB-72256 SampType: MBLK Batch ID: 72256 Client ID: PBS RunNo: 93500 Prep Date: 12/21/2022 Analysis Date: 12/22/2022 SeqNo: 3372932 Units: %Rec Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Surr: DNOP 12 10.00 118 21 129

Sample ID: LCS-72256 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 72256 RunNo: 93500

Prep Date: 12/21/2022 Analysis Date: 12/22/2022 SeqNo: 3374250 Units: %Rec

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212B98** *30-Dec-22*

Client: ENSOLUM

Project: Lateral 2B-24 Dec 2022

Sample ID: LCS-72256 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 72256 RunNo: 93500

Prep Date: 12/21/2022 Analysis Date: 12/22/2022 SeqNo: 3374250 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual S Surr: DNOP 6.8 5.000 136 21 129

Sample ID: LCS-72271 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 72271 RunNo: 93500

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3374252 Units: %Rec

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

Surr: DNOP 5.9 5.000 117 21 129

Sample ID: MB-72271 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 72271 RunNo: 93500

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3374254 Units: %Rec

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

Surr: DNOP 11 10.00 111 21 129

Sample ID: LCS-72338 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 72338 RunNo: 93583

Prep Date: 12/28/2022 Analysis Date: 12/28/2022 SeqNo: 3376644 Units: %Rec

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

Surr: DNOP 4.6 5.000 92.9 21 129

Sample ID: MB-72338 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 72338 RunNo: 93583

Prep Date: 12/28/2022 Analysis Date: 12/28/2022 SeqNo: 3376646 Units: %Rec

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

Surr: DNOP 8.6 10.00 86.4 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 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

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Hall Environmental Analysis Laboratory, Inc.

30-Dec-22

2212B98

WO#:

Client: ENSOLUM

Project: Lateral 2B-24 Dec 2022

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

Client ID: PBS Batch ID: A93454 RunNo: 93454

Prep Date: Analysis Date: 12/21/2022 SeqNo: 3371088 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 88.8 37.7 212

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

Client ID: LCSS Batch ID: A93454 RunNo: 93454

Prep Date: Analysis Date: 12/21/2022 SeqNo: 3371089 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 92.5
 72.3
 137

 Surr: BFB
 1800
 1000
 178
 37.7
 212

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

Client ID: PBS Batch ID: B93454 RunNo: 93454

Prep Date: Analysis Date: 12/21/2022 SeqNo: 3371107 Units: %Rec

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

Surr: BFB 880 1000 88.2 37.7 212

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

Client ID: LCSS Batch ID: B93454 RunNo: 93454

Prep Date: Analysis Date: 12/21/2022 SeqNo: 3371108 Units: %Rec

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

Surr: BFB 1800 1000 182 37.7 212

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212B98**

30-Dec-22

Client: ENSOLUM

Project: Lateral 2B-24 Dec 2022

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

Client ID: PBS Batch ID: C93454 RunNo: 93454

Prep Date: Analysis Date: 12/21/2022 SeqNo: 3371152 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
 0.88
 1.000
 88.2
 70
 130

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: C93454 RunNo: 93454 Prep Date: Analysis Date: 12/21/2022 SeqNo: 3371153 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.89 0.025 0 89.1 80 120 Benzene Toluene 0.91 0.050 1.000 0 91.5 80 120 0 80 Ethylbenzene 0.92 0.050 1.000 91.9 120 0 91.8 Xylenes, Total 2.8 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 0.92 1.000 92.5 70 130

Sample ID: mb-II SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **D93454** RunNo: 93454 Prep Date: Analysis Date: 12/21/2022 SeqNo: 3371171 Units: %Rec Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.87 1.000 86.8 Surr: 4-Bromofluorobenzene 70 130

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

Client ID: LCSS Batch ID: D93454 RunNo: 93454

Prep Date: Analysis Date: 12/21/2022 SeqNo: 3371172 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.87 1.000 87.0 70 130

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

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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

	M Work O	rder Number: 2212	398	RcptNe	o: 1
Received By: Tracy Ca	sarrubias 12/21/202	2 6:30:00 AM			
Completed By: Tracy Ca	sarrubias 12/21/202	2 7:58:04 AM			
Reviewed By: 12-2	1-77				
Chain of Custody					
Is Chain of Custody com	plete?	Yes	☑ No	□ Not Present □	
2. How was the sample del	vered?	Courie	<u>er</u>		
<u>Log In</u>			(
3. Was an attempt made to	cool the samples?	Yes (√ No [□ NA □	
4. Were all samples receive	d at a temperature of >0° C to	6.0°C Yes	✓ No [□ NA □	
5. Sample(s) in proper cont	ainer(s)?	Yes [✓ No [
6. Sufficient sample volume	for indicated test(s)?	Yes 5	✓ No [
7. Are samples (except VOA	and ONG) properly preserved	? Yes 🖢	✓ No [3	
8. Was preservative added	o bottles?	Yes [☐ No 🛭	Z NA □	
9. Received at least 1 vial w	ith headspace <1/4" for AQ VO			NA ₩	
10. Were any sample contain	ers received broken?	Yes [No [# of preserved	
11. Does paperwork match b	ottle labels?	Yes 5	∠ No □	bottles checked for pH:	
(Note discrepancies on cl		c	.		or >12 unless noted)
2. Are matrices correctly ide	•	Yes &			
[3] Is it clear what analyses with the second in the se		Yes 🛭 Yes 😉			Jn 12/21/-
(If no, notify customer for		res u	<u> </u>	onesida by:	3101212116
Special Handling (if ap	<u>plicable)</u>		,		
15. Was client notified of all	discrepancies with this order?	Yes	No [□ NA ☑	_
Person Notified:		Date:			
By Whom:		Via: eMail	I 🗌 Phone 🗌 F	Fax In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
		Seal No Seal Dat	e Signed By		
17. Cooler Information Cooler No Temp °C	Condition Seal Intact S				

Chain-of-Custody Record	Turn-Around Time:	Time:	SAMEDAY			-				Ġ		
Client: Ensolum, LLC	☐ Standard	X Rush	X Rush 100%	<u></u>	¥		ANAI	ZZ	7		AALL ENVIKONMENIAL ANAI YSTS I ABORATORY	AL DPV
	Project Name:				篇	3	od ww	www.hallenvironmental.com	1 000			
Mailing Address: 6005, Blo Grande Suite A	Lateral	2B-24 (1	B-24 (Decause)		4901 Hawkins NE	awkin	N NE	Albuq	uerqu	e, 8	Albuquerque, NM 87109	
Aztec, NW 8740	Project #: Seo	SHOW			Tel. 50	505-345-3975	-3975	Fa	Fax 505-345-4107	345-4	107	
Phone #:			1000				1	Analysis Request	s Req	uest		
email or Fax#:	Project Manager: KS Jummers	Jer. Ksum	PER		(0)			[⊅] O [‡]		(ţu		
QA/QC Package: □ Standard □ Level 4 (Full Validation)							CIAIIC	PO4, S		əsdA\t		
☐ Az Con☐ Other	Sampler: R	P.Decelvill II Yes	LL.					' ^z ON	(A	төѕөтЧ		
□ EDD (Type)	18	-) w.	76	
	Cooler Temp(Including CF):	ncluding OF):	3-p-1.3 (°C)							olifor	Orlo	
Date Time Matrix Sample Name	Container Type and #	Preservative Type	HEAL NO. 2212.890	BTEX /	.08:H9T 59 1808	EDB (W	PAHs by	Cl, F, B	S) 0728	Total Co	GUI	
12/20/20 1435 5 5-6		(00)	ŏ	X	7					1	X	3 3 1840
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12/20/22 1445 S FP-1	(1) 402.Jor	(00)	003	×						51	×	
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Water Time: Reugalished by:	Received by:	Via:Co	Date Time	Ś	1		No	NonAFE		N61880	08	
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View and Released to Imaging: 5/23/2023 1:33:12 PM



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

January 13, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 2B 24 Dec 2022 OrderNo.: 2301375

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/11/2023 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 2301375

Date Reported: 1/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-2

Project: Lateral 2B 24 Dec 2022 **Collection Date:** 1/10/2023 9:45:00 AM

Lab ID: 2301375-001 **Matrix:** MEOH (SOIL) **Received Date:** 1/11/2023 7:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	1/11/2023 12:08:59 PM	72570
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/11/2023 10:41:59 AM	72567
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/11/2023 10:41:59 AM	72567
Surr: DNOP	112	21-129	%Rec	1	1/11/2023 10:41:59 AM	72567
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: JR
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	1/11/2023 11:47:00 AM	R93873
Surr: BFB	103	37.7-212	%Rec	1	1/11/2023 11:47:00 AM	R93873
EPA METHOD 8021B: VOLATILES					Analyst	: JR
Benzene	ND	0.017	mg/Kg	1	1/11/2023 11:47:00 AM	B93873
Toluene	ND	0.034	mg/Kg	1	1/11/2023 11:47:00 AM	B93873
Ethylbenzene	ND	0.034	mg/Kg	1	1/11/2023 11:47:00 AM	B93873
Xylenes, Total	ND	0.069	mg/Kg	1	1/11/2023 11:47:00 AM	B93873
Surr: 4-Bromofluorobenzene	119	70-130	%Rec	1	1/11/2023 11:47:00 AM	B93873

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 5

Hall Environmental Analysis Laboratory, Inc.

2301375 13-Jan-23

WO#:

Client: ENSOLUM

Project: Lateral 2B 24 Dec 2022

Sample ID: MB-72570 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72570 RunNo: 93870

Prep Date: 1/11/2023 Analysis Date: 1/11/2023 SeqNo: 3389810 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-72570 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72570 RunNo: 93870

Prep Date: 1/11/2023 Analysis Date: 1/11/2023 SeqNo: 3389812 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.6 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 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 2 of 5

Hall Environmental Analysis Laboratory, Inc.

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5.4

2301375 13-Jan-23

WO#:

Client: ENSOLUM

Project: Lateral 2B 24 Dec 2022

Sample ID: 2301375-001AMS	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: FP-2	Batch	n ID: 725	567	F	RunNo: 93	3869				
Prep Date: 1/11/2023	Analysis D	Date: 1/	11/2023	5	SeqNo: 33	888575	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.2	46.08	0	95.9	36.1	154			
Surr: DNOP	5.3		4.608		116	21	129			
Sample ID: 2301375-001AMS	D SampT	уре: МЅ	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: FP-2	Batch	n ID: 725	567	F	RunNo: 93	8869				
Prep Date: 1/11/2023	Analysis D	Date: 1/	11/2023	5	SeqNo: 33	888576	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.8	49.02	0	96.3	36.1	154	6.61	33.9	
Surr: DNOP	5.6		4.902		115	21	129	0	0	
Sample ID: LCS-72567	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 72 5	567	F	RunNo: 93	8869				
Prep Date: 1/11/2023	Analysis D	Date: 1/	11/2023	5	SeqNo: 33	888579	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: MB-72567	Samp	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batcl	n ID: 72	567	F	RunNo: 93	3869				
Prep Date: 1/11/2023	Analysis [Date: 1/	11/2023	5	SeqNo: 33	388582	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	21	129			

80.5

108

64.4

21

127

129

50.00

5.000

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 3 of 5

Hall Environmental Analysis Laboratory, Inc.

2300

2301375 13-Jan-23

S

WO#:

Client: ENSOLUM

Project: Lateral 2B 24 Dec 2022

Sample ID: 2.5ug gro lcs	SampType	E LCS	Tes	tCode: EP	A Method	8015D: Gasoli	ne Range		
Client ID: LCSS	Batch ID	: R93873	F	RunNo: 938	373				
Prep Date:	Analysis Date	1/11/2023	9	SeqNo: 338	39572	Units: mg/Kg	3		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0 25.00	0	99.9	72.3	137			
Surr: BFB	2200	1000		225	37.7	212			S
Sample ID: mb	SampType	e: MBLK	Tes	tCode: EP	A Method	8015D: Gasoli	ne Range		
Client ID: PBS	Batch ID	: R93873	F	RunNo: 938	373				
Prep Date:	Analysis Date	: 1/11/2023	5	SeqNo: 338	39573	Units: mg/Kg)		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0							
Surr: BFB	1100	1000		106	37.7	212			
Sample ID: 2301375-001ams	SampType	e: MS	Tes	tCode: EPA	A Method	8015D: Gasoli	ne Range		
Client ID: FP-2	Batch ID	: R93873	F	RunNo: 938	373				
Prep Date:	Analysis Date	: 1/11/2023	5	SeqNo: 338	39580	Units: mg/Kg)		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0 25.00	0	100	70	130		•	

Sample ID: 2301375-001amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: FP-2	Batch	n ID: R9	3873	F	RunNo: 9:	3873				
Prep Date:	Analysis D	oate: 1/	11/2023	5	SeqNo: 3	389581	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.2	70	130	6.09	20	
Surr: BFB	2100		1000		210	37.7	212	0	0	

226

37.7

212

1000

Qualifiers:

Surr: BFB

- 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
- 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 5

Hall Environmental Analysis Laboratory, Inc.

1.2

WO#: **2301375** *13-Jan-23*

Client: ENSOLUM

Surr: 4-Bromofluorobenzene

Project: Lateral 2B 24 Dec 2022

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

Client ID: LCSS Batch ID: R93873 RunNo: 93873

Prep Date: Analysis Date: 1/11/2023 SeqNo: 3389625 Units: %Rec

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

123

70

130

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1.000

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

Client ID: PBS Batch ID: R93873 RunNo: 93873

Prep Date: Analysis Date: 1/11/2023 SeqNo: 3389626 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.2 1.000 123 70 130

Sample ID: 2301375-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: FP-2 Batch ID: R93873 RunNo: 93873

Prep Date: Analysis Date: 1/11/2023 SeqNo: 3389633 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.2 1.000 119 70 130

Sample ID: 2301375-001amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: FP-2 Batch ID: R93873 RunNo: 93873

Prep Date: Analysis Date: 1/11/2023 SeqNo: 3389634 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.2 1.000 116 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 Quantitative 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 5 of 5



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

Released to Imaging: 5/23/2023 1:33:12 PM

Client Name: ENSOLUM	1	Work Or	der Numbe	r: 230	1375			RcptNo	c 1
Received By: Tracy Ca	sarrubias	1/11/2023	7:20:00 AN	A					
Completed By: Tracy Ca	sarrubias	1/11/2023	7:45:47 AN	1					
Reviewed By: CMC		1/11/23							
Chain of Custody									
1. Is Chain of Custody com	plete?			Yes		No	V	Not Present	
2. How was the sample deli	vered?			Çou	<u>rier</u>				
<u>Log In</u>									
3. Was an attempt made to	cool the sampl	es?		Yes	✓	No		NA 🗆	
4. Were all samples receive	d at a temperat	cure of >0° C to 6	5.0°C	Yes	✓	No		na 🗆	
5. Sample(s) in proper conta	ainer(s)?			Yes	V	No			
6. Sufficient sample volume	for indicated te	st(s)?		Yes	V	No			
7. Are samples (except VOA	and ONG) pro	perly preserved?		Yes	V	No			
8. Was preservative added t	o bottles?			Yes		No	V	NA 🗌	
9. Received at least 1 vial w	th headspace	<1/4" for AQ VOA	.?	Yes		No		NA 🗹	
10. Were any sample contain	ers received bi	roken?		Yes		No	V	# of preserved	-
11. Does paperwork match be				Yes	Y	No		bottles checked for pH:	r >12 unless noted)
(Note discrepancies on ch 12. Are matrices correctly ide				Yes		No	П	Adjusted?	1 > 12 diness floted)
13. Is it clear what analyses w		-		Yes		No		. /	
14. Were all holding times ab	-			Yes		No		Checked by:	mululo
(If no, notify customer for				163		140	_		0 1010
Special Handling (if ap	plicable)								
15. Was client notified of all o	liscrepancies w	vith this order?		Yes	~	No		na 🗆	
Person Notified:	K Summers		Date:			1/11/20	023		
By Whom:	Tracy Casarro	ubias	Via:	✓ eMa	ail [] Phone [Fax	☐ In Person	
Regarding:	Incomplete C	ОС		-					
Client Instructions:	Phone number	er missing on CO	C. Sent em	ail to S	umm	ners to have a	valid	l one added - TM	
16. Additional remarks:			_						
17. Cooler Information Cooler No Temp °C	Condition	Seal Intact S	eal No	Seal D	ate	Signed E	Bv		
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Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Client: - Charles Enselven LLC	□ Standard \\ \bar{\bar{\bar{\bar{\bar{\bar{\bar{\b	
	Project Name:	www.hallenvironmental.com
Mailing Address: 606 5, R. & Grande SinteA		4901 Hawkins NE - Albuquerque, NM 87109
37410	Project #:	Tel. 505-345-3975 Fax 505-345-4107
, #:	05A12262424	Analysis Request
email or Fax#: Kgunners@onsolum.com Project Manager:	Project Manager:	*OS
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	$\left \cdot \right $	OЯ(() S07:
Accreditation: Az Compliance	Sampler: しつのこと INO On Ice: IN Yes コ No	3/808 5/808 04.1 or 82
□ EDD (Type)	olers:	(GR 하하하하 하하하 하하하 하하하 하하하 하하 하하 하하 하하 하 하 하
	Cooler Temp(including CF): 6 -0(> 1. 6 (°C)	15D ethol y 838 8 Me 1 1,18 10AO
	Preservative	TEX / Pets 180 (M Sets 180 (M
Date Time Matrix Sample Name	Type and # Type 3301335	IIT 88 일 임 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기
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If necessary, samples submitted to Hall Environmental may be subcontracted. Released to Imaging 3/23/2023 1:33:12 PM

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 219434

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	219434
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	5/23/2023