District 1 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 Party: Enterprise Field Services, LLC	OGRID: 151618
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD): NAPP2105454212
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.987093

Longitude -107.875699

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lateral MD 7 Loop	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 01/16/2021	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County	
E	15	32N	10W	San Juan	

Surface Owner: 🔲 State 🔲 Federal 🔲 Tribal 🔀 Private (Name: Jubal and Monique Slaver

Nature and Volume of Release

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):	Volume Recovered (bbls):							
🛛 Natural Gas	Volume Released (Mcf): 528 MCF	Volume Recovered (Mcf): None							
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)							
Cause of Release: On January 16, 2021, Enterprise dispatched a technician to investigate a possible leak on the MD-7 Loop pipeline. The leak was confirmed and the pipeline was isolated, depressurized, locked out and tagged out. No fluids were released to the ground nor to the subsurface surface. No washes were affected. Enterprise determined this release reportable per NMOCD regulation on February 23, 2021 by the calculated volume of gas that was released. A calculated amount of 528 MCF was released to atmosphere. Initial subsurface investigation activities were performed on January 22, 2021. On March 29, 2021, Enterprise conducted and additional subsurface investigation. Five soil borings were advanced in the vicinity of the former release point. The soil borings were advanced up to eight feet below ground surface utilizing the combination of hydro excavation and a hand auger. No subsurface contaminants exceeding NMOCD Tier III remediation standards were identified. A third party closure report is included with this "Final." C-141.									

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Signature:	Full	Title: Director, Environmental Date: $\delta/24/202/$ Telephone: (713) 381-6684						
OCD Only								
Received by:		Date:						
remediate contamination th	CD does not relieve the responsible pa nat poses a threat to groundwater, surfa my other federal, state, or local laws a	ice water, human heal	their operations have failed to adequately investigate and th, or the environment nor does not relieve the responsible					
Closure Approved by: Printed Name:	Nelson Velez	Date:	03/02/2022					
Printed Name:	Nelson Velez	Title:	Environmental Specialist – Adv					



CLOSURE REPORT

Property:

Lateral MD 7 Loop (01/16/21) NW ¼, S15 T32N R10W San Juan County, New Mexico

NM EMNRD OCD Incident ID No. NAPP2105454212

June 7, 2021 Ensolum Project No. 05A1226134

Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Chad D'Aponti Environmental Scientist

umm

Kyle Summers, CPG Sr. Project Manager

•

.

Table of Contents

1.0	INTRODUCTION 1.1 Site Description & Background 1.2 Project Objective	1
2.0	CLOSURE CRITERIA	1
3.0	SOIL REMEDIATION ACTIVITIES	3
4.0	SOIL SAMPLING PROGRAM	3
5.0	SOIL LABORATORY ANALYTICAL METHODS	4
6.0	DATA EVALUATION	4
7.0	RECLAMATION AND REVEGETATION	5
8.0	FINDINGS AND RECOMMENDATION	5
9.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE. 9.1 Standard of Care. 9.2 Additional Limitations . 9.3 Reliance .	6 6

LIST OF APPENDICES

Appendix A:	FiguresFigure 1Topographic MapFigure 2Site Vicinity MapFigure 3Site Map
Appendix B:	Siting Figures and DocumentationFigure A0.5 Mile Radius Water Well MapFigure BCathodic Protection Well Recorded Depth to WaterFigure C300 Foot Radius Watercourse and Drainage IdentificationFigure D300 Foot Radius Occupied Structure IdentificationFigure EWater Well and Natural Spring LocationFigure FWetlandsFigure GMines, Mills, and QuarriesFigure H100-Year Flood Plain Map
Appendix C:	Executed C-138 Solid Waste Acceptance Forms
Appendix D:	Photographic Documentation
Appendix E:	Regulatory Correspondence
Appendix F:	Soil Boring Logs
Appendix G:	Tables Table 1A - Soil Analytical Summary (Soil Zone: Contains Samples from <4 Feet BGS) Table 1B - Soil Analytical Summary (Contains Samples from >4 Feet BGS)
Appendix H:	Laboratory Data Sheets & Chain of Custody Documentation



CLOSURE REPORT

Lateral MD 7 Loop (01/16/21) NW ¼, S15 T32N R10W San Juan County, New Mexico

Ensolum Project No. 05A1226134

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral MD 7 Loop (01/16/21) (Site)
Incident ID:	NAPP2105454212
Location:	36.987093° North, 107.875699° West Northwest (NW) ¼ of Section 15, Township 32 North, Range 10 West San Juan County, New Mexico
Property:	Private
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 16, 2021, a release of natural gas occurred from the MD 7 Loop pipeline. On January 22, 2021, Enterprise initiated activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was subsequently repaired and placed back into service.

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

1.2 **Project Objective**

The primary objective of the closure activities was to evaluate constituent of concern (COC) concentrations in the on-Site soils with respect to the applicable New Mexico EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site. The supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

• The 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). Numerous PODS were identified in the same Public Land Survey System (PLSS) section as the Site as well as in adjacent sections. The average depth to water for the PODs located in this PLSS section and in adjacent PLSS sections is approximately 49 feet below grade surface (bgs). The permit for the closest POD (SJ-01764) was approved by the OSE in 1983 but apparently the well was never installed, and no additional information was available (nor was a well identified at the property). The next nearby PODs (SJ-01153 and SJ-03527) appear to be located approximately 0.17 miles from the Site and approximately 100 feet lower in elevation than the Site (6,100 feet). The records for these PODs indicate depth to water at 47 feet bgs and 80 bgs, respectively (**Figure A**, **Appendix B**).

- One (1) cathodic protection well (Bonds #1A (Unit D, Sec15 T32N R10W)) was identified in the New Mexico EMNRD OCD imaging database. This cathodic well is located approximately 982 feet north of the Site at an elevation approximately 33 feet higher than the site. The records indicate a depth to water of 200 feet bgs.
- The Site is not located within 300 feet of a New Mexico EMNRD OCD-defined 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. The nearest permanent residence is located approximately 350 feet northeast of the Site (Figure D, Appendix B).
- Based on information provided in the OSE WRRS, a permit was approved in 1983 to install a well to be potentially used by less than five (5) households for domestic purposes located near the Site. However, the well associated with this permit (for POD (SJ-01764)) was apparently never installed, and no well records were available (Figure E, Appendix B).
- Based on information provided in the OSE WRRS there are no fresh water wells 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 United States (US) Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland. (Figure F, Appendix B).
- Based on information identified on the New Mexico Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine (**Figure G**, **Appendix B**).
- The Site is not located within an unstable area.
- Based on information identified in the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is located within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information, Enterprise estimates the depth to water at the Site to be greater than 100 feet bgs. Applicable closure criteria for soils (below four (4) feet) remaining in place at the Site include:

Closure Report Enterprise Field Services, LLC Lateral MD 7 Loop (01/16/21) June 7, 2021



Closure Criteria for Soils Impacted by a Release (Tier III)									
Constituent ¹	Limit								
Chloride	EPA 300.0 or SM4500 CI B	20,000 mg/kg							
TPH (GRO+DRO+MRO) ²	EPA SW-846 Method 8015	2,500 mg/kg							
TPH (GRO+DRO) ³	EPA SW-846 Method 8015	1,000 mg/kg							
BTEX	EPA SW-846 Method 8021 or 8260	50 mg/kg							
Benzene	EPA SW-846 Method 8021 or 8260	10 g/kg							

In addition, the closure criteria (reclamation requirements of NMAC 19.15.29.13(D)(1)) for the upper four (4) feet of soils at the Site include:

Closure Criteria for Soils Impacted by a Release								
Constituent ¹	Limit							
Chloride	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 kilograms (mg/kg).

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On January 22, 2021, Enterprise initiated activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was subsequently repaired and placed back into service. During the pipeline repair and corrective action activities OFT Construction Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 19 feet long by 7.5 feet wide at the maximum extents. The maximum depth of the final excavation measured approximately seven (7) feet bgs.

Approximately 40 barrels (bbls) of hydro-excavation cuttings and water were transported to the Industrial Ecosystems, Inc., (IEI) landfarm on Crouch Mesa near Aztec, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance forms are provided in **Appendix C**. The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soil.

Figure 3 is a map that identifies the approximate soil sample/soil boring locations 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 and boreholes utilizing a calibrated Dexsil PetroFLAG[®] hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp.

Ensolum's soil sampling program included the collection of one (1) composite soil samples (S-1) from the excavation and one (1) composite sample (SP-1) collected from stockpiled soil that was segregated for potential reuse and to confirm the material was suitable to remain on Site. The composite sample consisted





of five (5) aliquots and represent an estimated 200 square foot sample area in the immediate vicinity of the release. A clean shovel was utilized to obtain fresh aliquots from each area of the excavations. In addition, 10 discrete soil samples were collected from five (5) soil borings locations (HA-1 through HA-5) utilizing a hand auger. The New Mexico EMNRD OCD notification and documentation are provided in **Appendix E**.

First Sampling Event

On January 22, 2021, one (1) soil sample S-1 (0'-7') was collected from the sidewalls and the base of the pipeline repair excavation in the immediate vicinity of the release. In addition, one soil sample (SP-1) was collected from stockpiled soil to demonstrate that the soil did not exhibit BTEX or TPH impact and that they were suitable for reuse as backfill. At this time Enterprise considered this release "non-reportable" due to the limited environmental impact.

The subsequent analytical results did not indicate COC concentrations above the applicable New Mexico EMNRD OCD closure criteria. During March 2021, Enterprise discovered that the reported gas loss for the release caused this incident to be reportable. Enterprise requested a variance from the New Mexico EMNRD OCD to perform additional sampling at the Site.

Second Sampling Event

On March 29, 2021, five (5) soil borings (HA-1 through HA-5) were advanced in the vicinity of the former release point. The soil borings were advanced up to eight (8) feet bgs utilizing the combination of hydro-excavation and a hand auger. Soil boring samples HA-1 @ 4', HA-1 @ 8', HA-2 @ 4', HA-2 @ 7', HA-3 @ 4', HA-3 @ 8', HA-4 @ 4', HA-4 @ 8', HA-5 @ 4', and HA-5 @ 8' were collected from the soil borings for laboratory analysis. The New Mexico EMNRD OCD was notified of the sampling event, but a representative was not present during the sampling event. The Soil Boring Logs are provided in **Appendix F.**

All soil samples were 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, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples and soil boring 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 1A** and **Table 1B** (**Appendix G**). **Table 1A** contains results for samples from within the soil zone (<4 feet bgs). **Table 1B** contains results for samples from beneath the soil zone (>4 feet bgs). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix H**.

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 and SP-1) and the hand auger samples (HA-1 @ 4', HA-1 @ 8', HA-2 @ 4', HA-2 @ 7', HA-3 @ 4', HA-3 @ 8', HA-4 @ 4', HA-5 @ 4', and HA-5 @ 8') to the New Mexico EMNRD OCD closure criteria.

• The laboratory analytical results for the soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg.

Closure Report

June 7, 2021



- The laboratory analytical results for the soil samples indicate total BTEX is not present at • concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for soil samples HA-2 @ 7' and HA-5 @ 8' indicate combined TPH GRO/DRO concentration of 10 mg/kg and 17 mg/kg, respectively, which are less than the applicable New Mexico EMNRD OCD closure criteria of 1,000 mg/kg. The laboratory analytical results for the remaining soil samples indicate combined TPH GRO/DRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 1,000 mg/kg.
- The laboratory analytical results for soil samples HA-2 @ 7' and HA-5 @ 8' indicate combined TPH GRO/DRO/MRO concentrations of 10 mg/kg and 170 mg/kg, respectively, which are less than the applicable New Mexico EMNRD OCD closure criteria of 2,500 mg/kg. The laboratory analytical results for the remaining soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 2,500 mg/kg.
- The laboratory analytical results for soil samples S-1, SP-1, HA-1 @ 8', HA-2 @ 4', and HA-2 @ 7', indicate chloride concentrations ranging from 69 mg/kg (HA-1 @ 8') to 200 mg/kg (HA-2 @ 4'), which are less the applicable New Mexico EMNRD OCD closure criteria of 20,000 mg/kg. The laboratory analytical results for the remaining soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 20,000 mg/kg.

The laboratory analytical results are summarized in Table 1A and Table 1B (Appendix G).

7.0 **RECLAMATION AND REVEGETATION**

The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soil and was then contoured to surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- One (1) composite soil sample was collected from the excavation and one sample was collected • from stockpiled soil. Additionally, 10 discrete soil samples were collected from soil borings subsequently advanced near the former release point. Based on laboratory analytical results, the soils remaining at the Site exhibit COC concentrations that meet the soil requirements NMAC 19.15.29.13(D)(1) and NMAC 19.15.29.12 (Tier II closure criteria).
- Approximately 40 bbls of hydro-excavation soil cuttings and water were transported to the IEI • landfarm for disposal/remediation. The excavation was backfilled and contoured to the surrounding grade.

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). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Additional 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 recommendations are based solely upon data available to Ensolum at the time of these services.

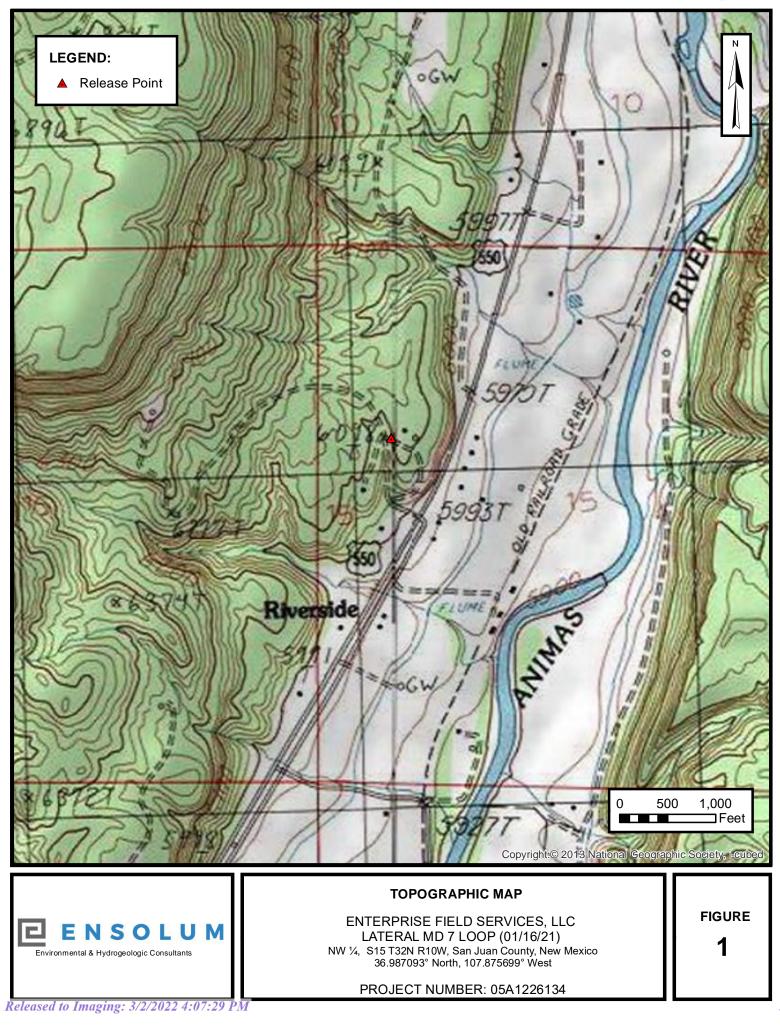
9.3 Reliance

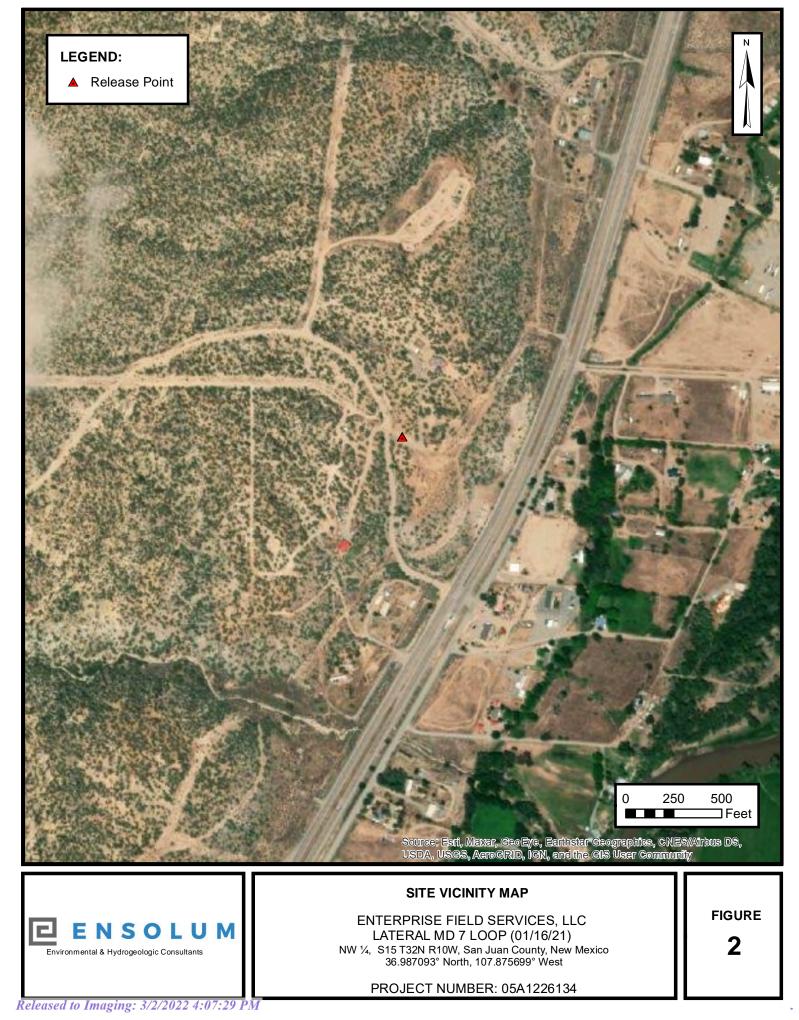
This report has been prepared for the exclusive use of Enterprise Field Services LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Field Services LLC and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

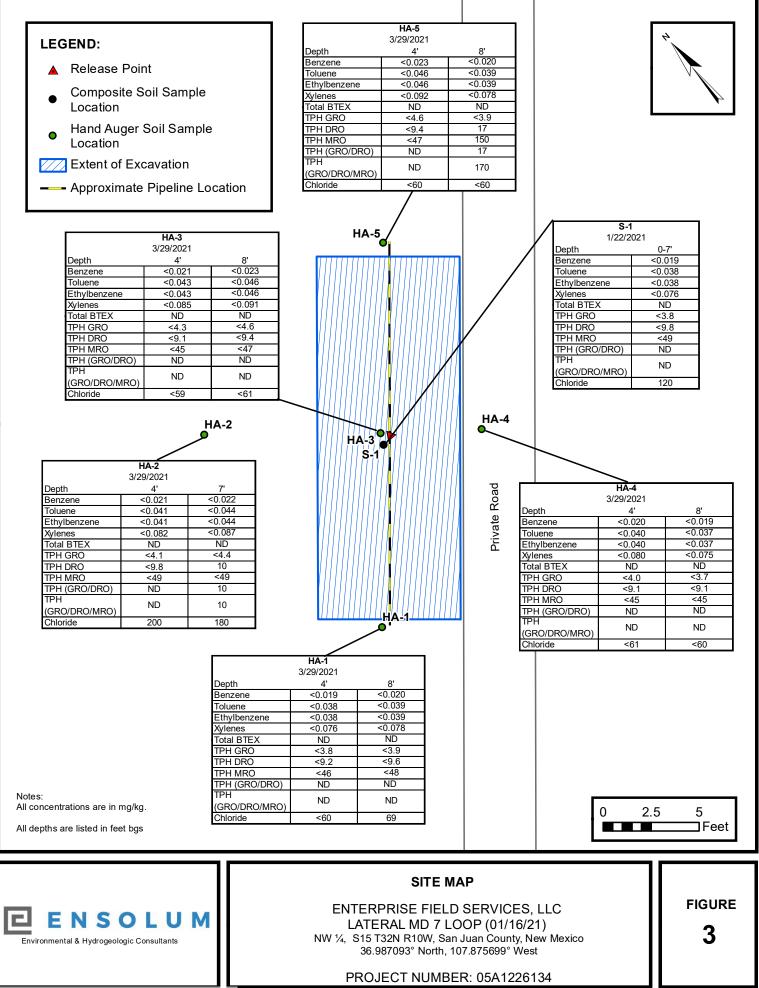


APPENDIX A

Figures





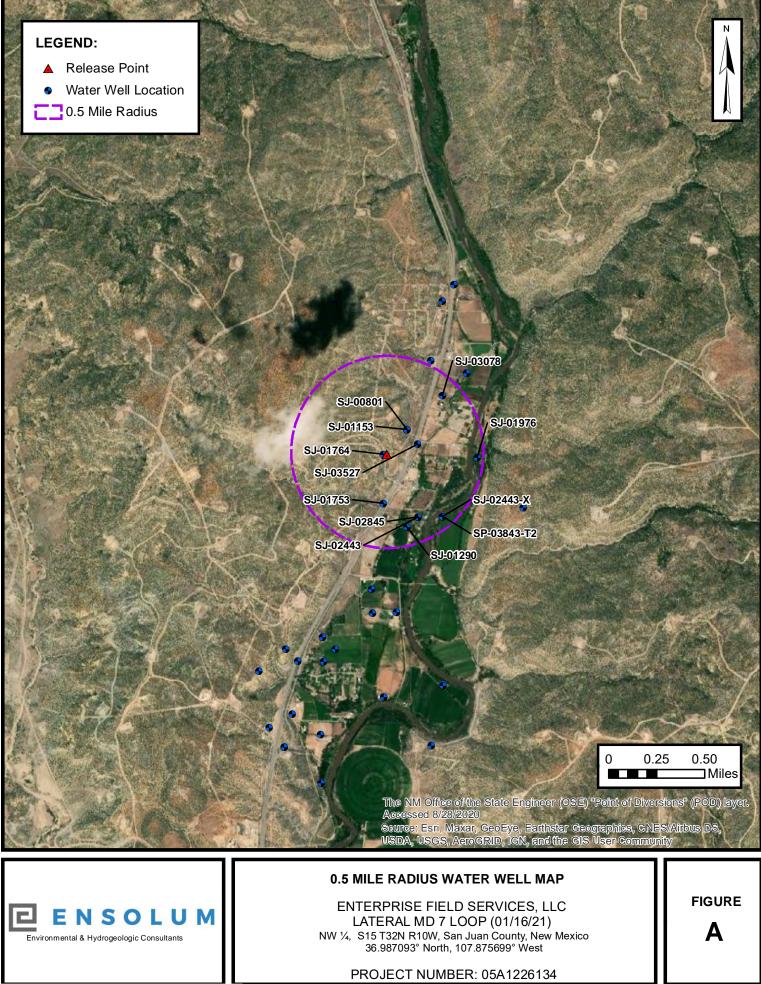


Released to Imaging: 3/2/2022 4:07:29 PM

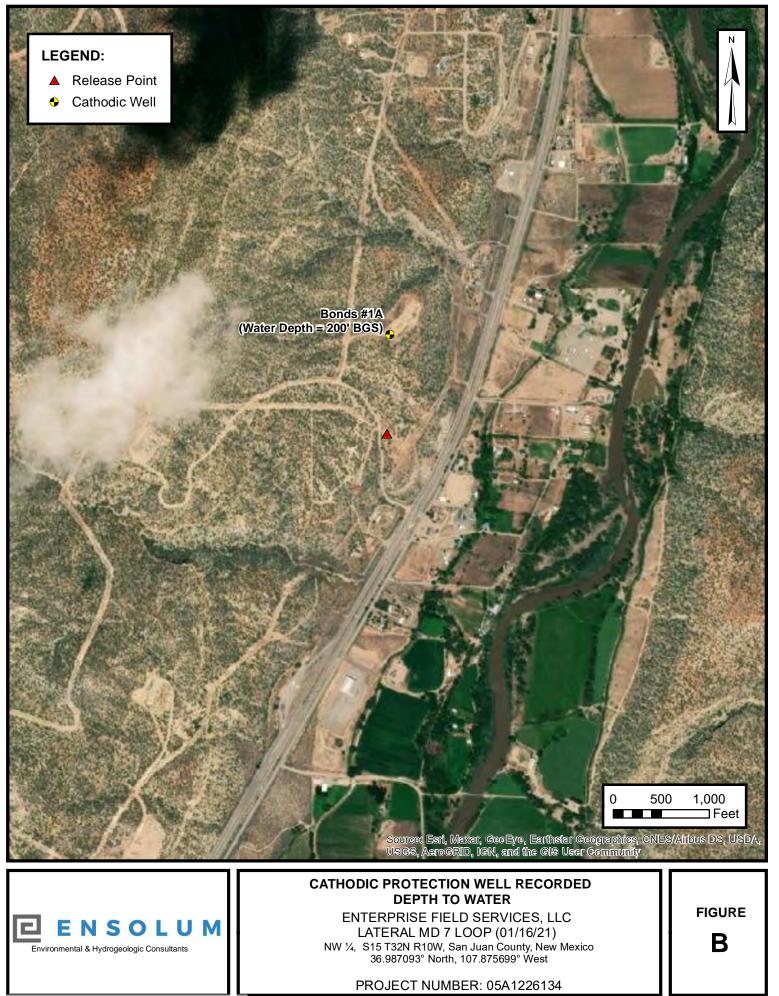


APPENDIX B

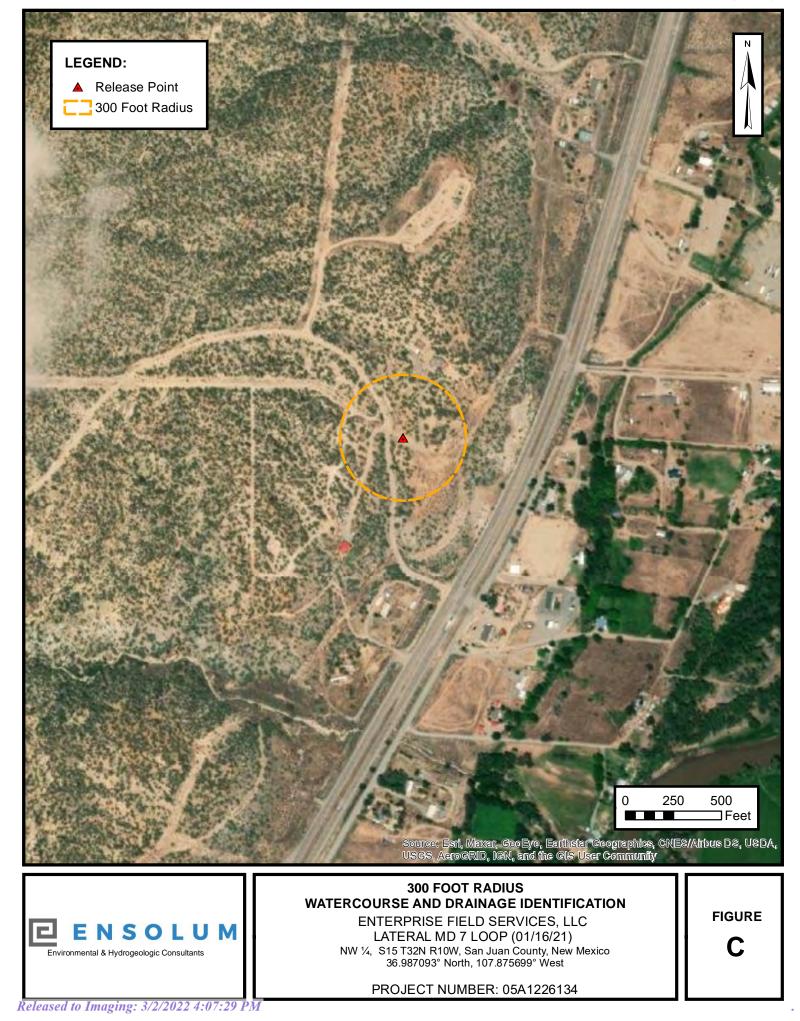
Siting Figures and Documentation

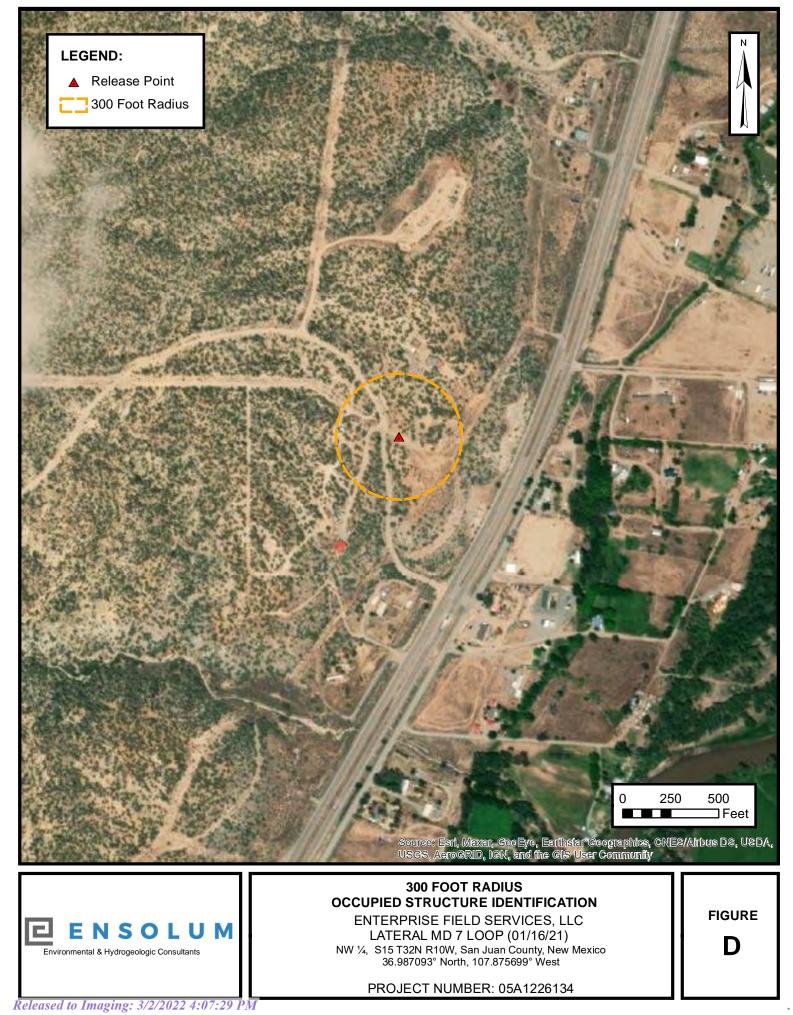


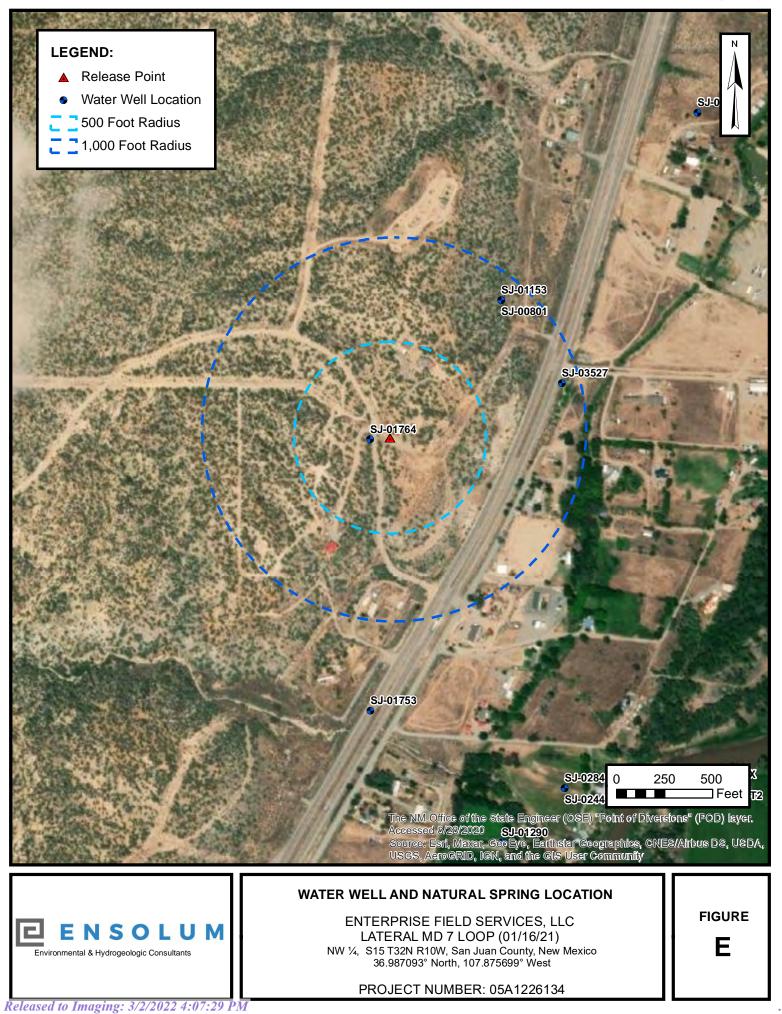
Released to Imaging: 3/2/2022 4:07:29 PM

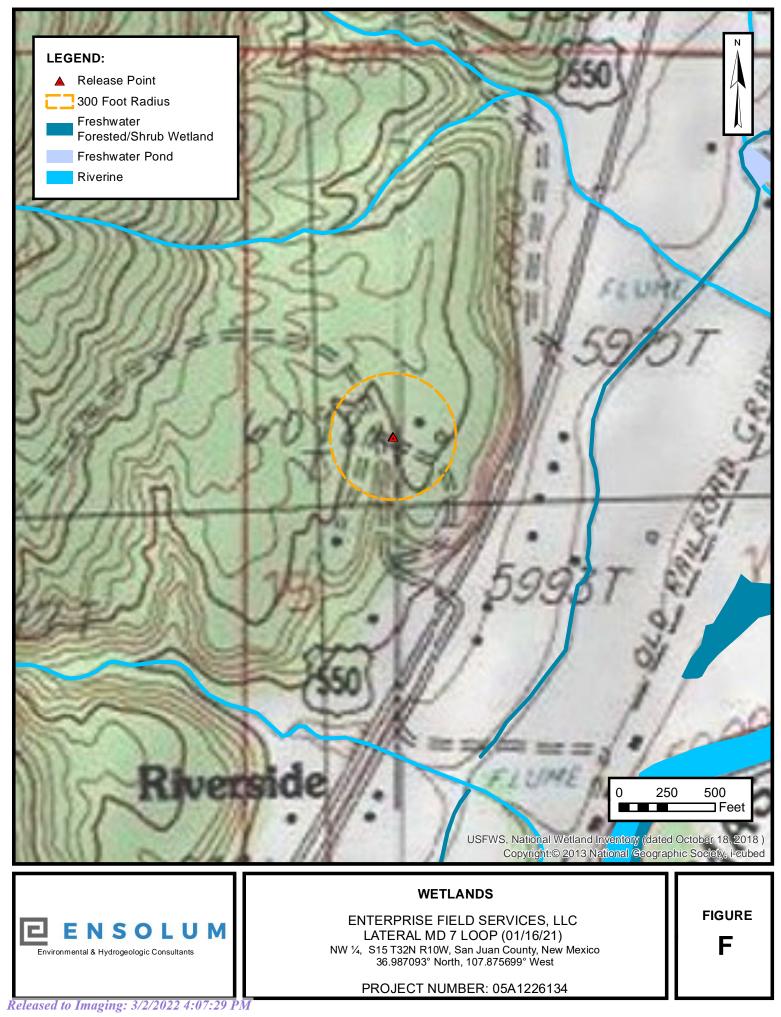


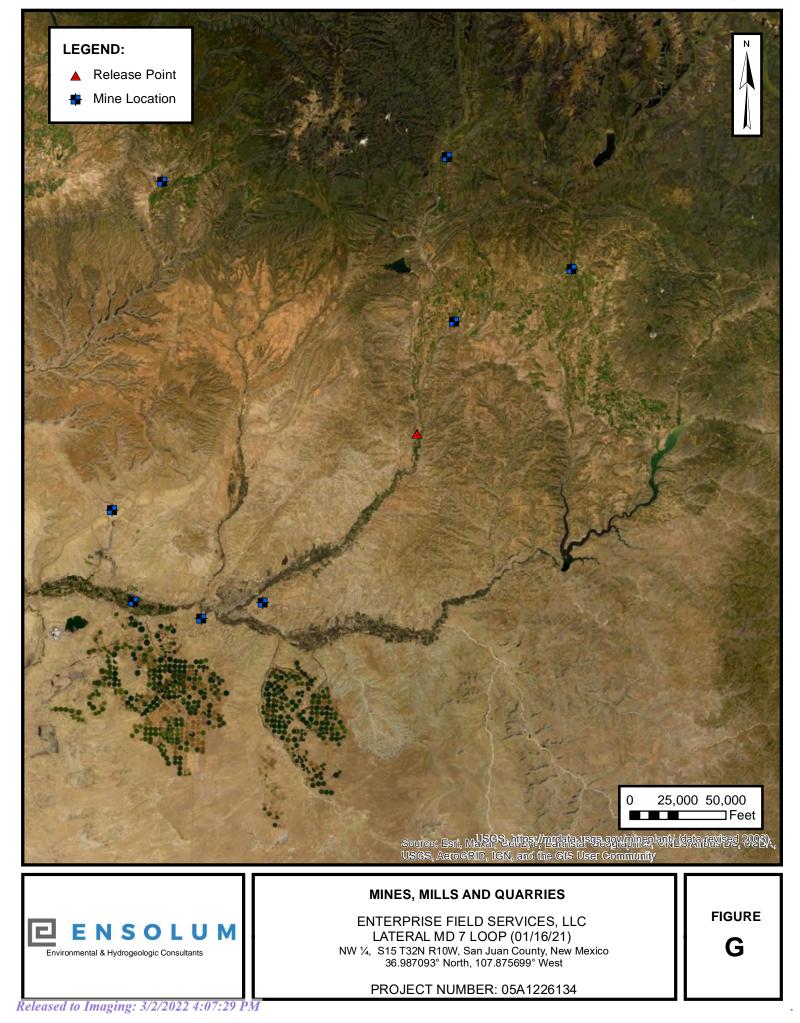
Released to Imaging: 3/2/2022 4:07:29 PM

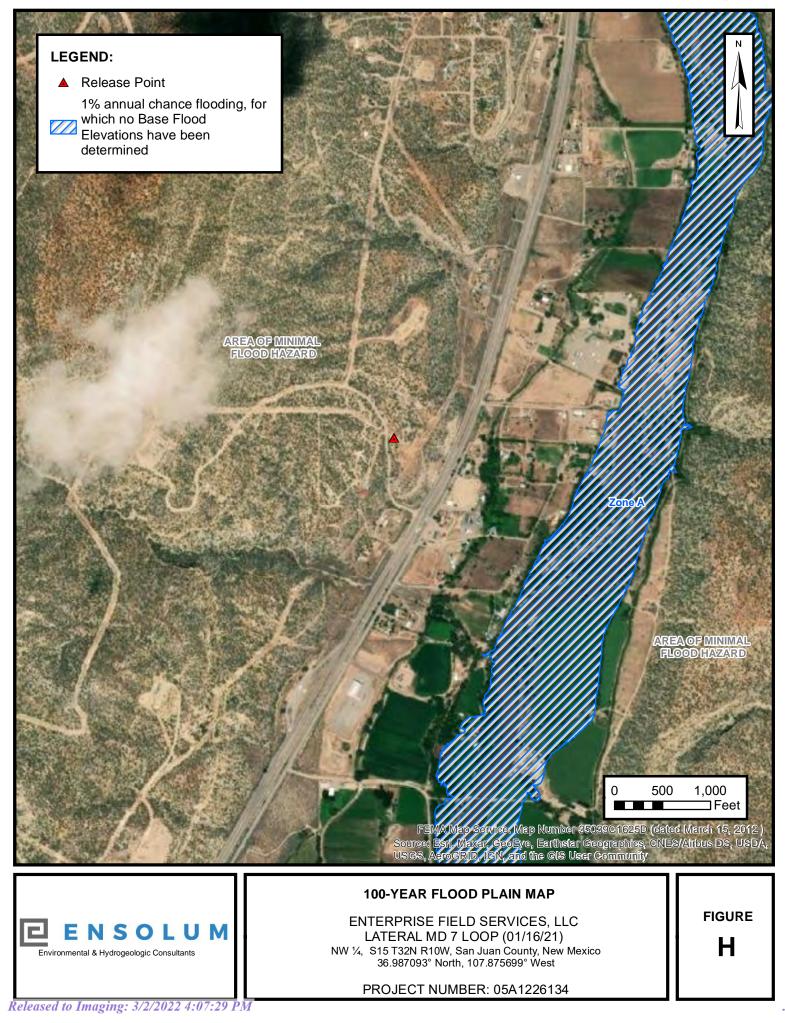












New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced	(R=POD has been replaced, O=orphaned,					4								
& no longer serves a water right file.)	C=the file is closed)	· ·						IE 3=SW largest)		UTM in meters)		(In feet	t)	
	POD													
POD Number	Sub- Code basin C	ountv		Q 16		Sec	Tws	Rna	х	Y			Water Column	
SJ 00263	SJAR	SJ					32N		244553	4098557* 🌍	108	50	58	
<u>SJ 00446</u>	SJAR	SJ	4	3	2	21	32N	10W	243272	4095620* 🌍	76	60	16	
<u>SJ 00489</u>	SJAR	SJ	1	4	4	21	32N	10W	243441	4095005* 🌍	65	30	35	
SJ 00528		SJ	2	1	1	10	32N	10W			240	100	140	
SJ 01153	SJAR	SJ			1	15	32N	10W	244230	4097506* 🌍	100	47	53	
SJ 01157	SJAR	SJ		2	4	15	32N	10W	245172	4096833* 🌍				
<u>SJ 01177</u>	SJAR	SJ		4	3	10	32N	10W	244444	4098072* 🌍	83	38	45	
SJ 01290	SJAR	SJ			3	15	32N	10W	244206	4096700* 🌍	105	20	85	
SJ 01424	SJAR	SJ				10	32N	10W	244655	4098691* 🌍	164	94	70	
SJ 01435	SJAR	SJ		3	4	21	32N	10W	243137	4094912* 🌍	70	40	30	
SJ 01512	SJAR	SJ		3	2	21	32N	10W	243173	4095721* 🌍	77	67	10	
SJ 01688	SJAR	SJ	3	3	4	10	32N	10W	244736	4097956* 🌍	23	6	17	
SJ 02144	SJAR	SJ				21	32N	10W	242948	4095545* 🌍	87	62	25	
SJ 02381	SJAR	SJ	3	4	2	21	32N	10W	243482	4095610* 🌍	65			
SJ 02845	SJAR	SJ	3	2	3	15	32N	10W	244302	4096778* 🌍	11	5	6	
SJ 02980	SJAR	SJ	3	1	1	22	32N	10W	243899	4095999* 🌍	65	36	29	
SJ 03000	SJAR	SJ	4	1	1	22	32N	10W	244099	4095999* 🌍	105	19	86	
SJ 03072	SJAR	SJ	1	1	1	22	32N	10W	243899	4096199* 🌍	80	62	18	
SJ 03078	SJAR	SJ	2	2	1	15	32N	10W	244530	4097776* 🌍	21	18	3	
SJ 03307	SJAR	SJ	4	1	1	22	32N	10W	244099	4095999* 🌍	60	20	40	
<u>SJ 03483</u>	SJAR	SJ	1	4	2	21	32N	10W	243482	4095810* 🌍	90			
SJ 03527	SJAR	SJ	1	4	1	15	32N	10W	244316	4097380* 🌍	80			
SJ 03973 POD1	SJAR	SJ	4	1	4	21	32N	10W	243211	4095180 🌍	43			
SJ 04148 POD1	SJAR	SJ		3	4	21	32N	10W	243017	4095074 🌍	280	160	120	
SJ 04418 POD1	SJAR	SJ	3	4	2	21	32N	10W	243401	4095682 🌍	100			

*UTM location was derived from PLSS - see Help

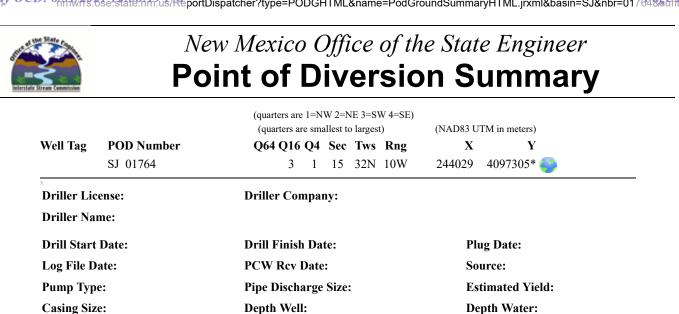
Page 24 of 83

Received by OCD: 8/31/2021 12:38:19 PM Page 25 of 83 (A CLW##### in the (R=POD has POD suffix indicates the been replaced, POD has been replaced O=orphaned, (quarters are 1=NW 2=NE 3=SW 4=SE) & no longer serves a C=the file is (quarters are smallest to largest) (NAD83 UTM in meters) water right file.) closed) (In feet) POD Sub-QQQ Depth Depth Water Code basin County 64 16 4 Sec Tws Rng Well Water Column **POD Number** Х Υ 49 feet Average Depth to Water: Minimum Depth: 5 feet Maximum Depth: 160 feet Record Count: 25

PLSS Search:

Section(s): 15, 9, 10, 11,	Township: 32N	Range: 10W
14, 16, 21, 22,		
23		

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



*UTM location was derived from PLSS - see Help

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

5/27/21 10:46 AM

POINT OF DIVERSION SUMMARY

Received by OCD: 8/31/2021 12:38:19/ReportDispatcher?type=TRANSHTML&name=TransactionSummaryHTML.jrxml&basin=SJ&nbr=017648suffix2.of 83

New Mexico Office of the State Engineer
Transaction Summary

		7212	1 All Applications Under Sta	itute 72-12-1	
saction Nu	mber: 22801	1	Transaction Desc: SJ 0176	4 File	Date: 08/22/19
Primary S	tatus: PM	Г Реп	nit		
Secondary	Status: API	R App	proved		
Person Ass	signed: ***	****			
Aj	pplicant: MIC	CHAEL I	RAY & JANA L. SMITH		
x					
Events					
	Date	Туре	Description	Comment	Processed By
images get	08/22/1983	APP	Application Received	*	*****
	08/23/1983	FIN	Final Action on application		*****
	08/23/1983	WAP	General Approval Letter		*****
	01/03/2003	ARV	Rec & Arch - file location	SJ 01764 Box: 95	*****
x					
Change T					
WR Fil		Acro	•	tive Purpose of Use	
SJ 0170	64		3	DOM 72-12-1 DO HOUSEHOLD	MESTIC ONE
**Poi	int of Diversio	n		HOUSEHOLD	
SJ (01764		244029 4097305*	>	
ł	*An (*) after nort	hing value	indicates UTM location was derived	from PLSS - see Help	

Conditions

4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

** See Image For Any Additi	onal Conditions of Approval **
-----------------------------	--------------------------------

Approval Code:	A - Approved
Action Date:	08/23/1983
Log Due Date:	08/31/1984
64-4- E	

State Engineer:

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

5/27/21 10:45 AM

TRANSACTION SUMMARY

READ INSTRUCTIONS ON BACK

Revised March 1979

APPLICATION TO APPROPRIATE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

83-17.4

1.	Name and Address of Applicant: '83 AUG 22 AM 10 F32No. SJ-1764
	Michael Ray & JANA L. Smith
	<u>PIO, Bot 1004</u>
	Alter N. Mer 87410
2.	Describe well location under one of the following subheadings:
	a. <u>14 5 W 14 N W 14 of Sec. 15 Twp. 32N Rge. 10 W</u> N.M.P.M., in County.
	b.Tract Noof Map Noof the
	c.Lot Noof Block Noof theCounty.
	d. X =feet, Y =feet, N.M. Coordinate SystemZone in theGrant.
	e. Give street address or route and box No. of property upon which well is to be located, or location by direction and distance from known landmarks <u>for the seath of state lare and thy they 550</u> -8.38 Alles
	Shallow
3.	Approximate depth (if known) UN KNOWN feet; outside diameter of casing inches.
	Name of driller (if known) UM Know d
4.	Use of water (check appropriate box or boxes):
	One household, non-commercial trees, lawn and garden not to exceed 1 acre.
	Livestock watering.
	 Divestork watching. More than one household, non-commercial trees, lawns and gatdens not to exceed a total of 1 acre.
	 Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.
	 Prospecting, mining or drilling operations to discover or develop natural resources.
	 Construction of public works, highways and roads.
	If any of the last four were marked, give name and nature of business under Remarks. (Item 5)
e	
ر. ر	Remarks:
	I, <u>Michael Ray</u> Smith, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.
	Mala las continue, Applicant
	By: Date: <u>8/19/83</u>
	By Datt
	ACTION OF STATE ENGINEER
Th	is application is approved for the use indicated, subject to all general conditions and to the specific conditions numbered
dri	4 on the reverse side hereof. This permit will automatically expire unless this well is illed or driven and the well record filed on or before August 31, 1984.
	E. Reynolds, State Engineer
	By: E. C. Barry, Water Resources Spec I, Water Rights Division
	E. C. Barry, Water Resources Spec I, Water Rights Division

Date: August 23, 1983

.

File No. <u>SJ-1764</u>

•

GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre feet in any year.
- B. The well shall be drilled only by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's log must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the log within that time shall result in automatic cancellation of the permit. Log forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household, livestock in a commercial feed lot operation, the permittee shall comply with Specific Condition of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre feet per annum.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- 1. Depth of the well shall not exceed the thickness of the (a) the valley fill or (b) Ogallala formation.
- 2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
- 3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- 4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor; (a) for each calendar month, on or before the 30th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 30th day of January of the following year.
- 6. The well shall be plugged upon completion of the permitted use and a plugging report shall be filed with the State Engineer within 10 days.
- 7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
- 8. Use shall be limited strictly to household and/or drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be executed in triplicate and forwarded with a \$1.00 filing fee to the State Engineer. A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and file number, if possible) should be given under Remarks. (Item 5.)

Applications for appropriation, well logs and request for information in the following basins should be addressed to the State Engineer at the location indicated:

Bluewater, Estancia, Rio Grande, Sandia and San Juan Basins

District No. 1, 2340 Menaul NE, Room 206, Albuquerque, New Mexico 87107

Capitan, Carlsbad, Fort Sumner, Hondo, Jal, Lea, Penasco, Portales, Roswell, and Upper Pecos Basins

District No. 2, Box 1717, Roswell, New Mexico 88201

Animas, Gila-San Francisco, Hot Springs, Las Animas Creek, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon, and Virden Valley Basins District No. 3, Box 844, Deming, New Mexico 88030

Canadian River Basin

State Engineer, State Capitol, Bataan Memorial Bldg., Santa Fe, New Mexico 87503



STATE OF NEW MEXICO

STATE ENGINEER OFFICE BANTA FE

S. E. REYNOLDS STATE ENGINEER

3

1.15

л.

August 23, 1983

BATAAN MEMORIAL BUILDING STATE CAPITOL SANTA FE, NEW MEXICO 87503

SJ-1764

Michael Ray & Jana Smith Post Office Box 1004 Aztec, New Mexico 87410

Dear Mr. & Mrs. Smith:

Enclosed is your copy of the above-numbered permit which has been approved subject to all the general conditions of the approval stated on the reverse side of the permit and the specific conditions of the approval numbered <u>4</u> stated on the reverse side of the permit.

Well may only be drilled by a licensed driller and a well log must be filed within 10 days of completion of the well.

Also enclosed is Receipt No. <u>103554</u> covering the \$1.00 filing fee.

Sincerely,

S. E. Reynolds State Engineer

By: E Barry c.

ŀ

Water Resources Spec I Water Rights Division

rav encl. cc: J.T. Smith

-

Received by OCD: 8/31/2021 12:38:19 PM Page 31 of 83 ج. DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO Operator Burlington Resources Location: Unit D Sec. 15 Twp 32 Rng 10 Name of Well/Wells or Pipeline Serviced <u>Bonds</u> #1A <u>3D-045-29457</u> Elevation ____Completion Date 3-/3-98 Total Depth 380 Land Type___ Casing Strings, Sizes, Types & Depths <u>S PUC X 20</u> If Casing Strings are cemented, show amounts & types used 4 Bags Portland ____ Cement If Cement or Bentonite Plugs have been placed, show depths & amounts used MORE Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 200' Seco Depths gas encountered: None _____ Ground bed depth with type & amount of coke breeze used: 380, 2000 /bs

Lorrisco Sw coke breeze

Depths anodes placed: 355', 345, 335, 325, 315, 305, 295, 225, 275, 265'Depths vent pipes placed: 380'Vent pipe perforations: <u>Bottom</u> 180' DECENTED

Remarks:_____

OIL CON. 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.

ť

IERRA	DYNAMIC	COMPA	NY	Υ. j	DEEP W	ELL GRO	UNDED	LOG DAT	A SiT				
OMPA	NY NAME:	Buch	ng tom	Rospin	1115								
VELL N	AME	Bond	5 #14										
	OCATION	1:15-	32-1	0		·····	COUNT	Y: San	JUAN				
OWDER THE PROPERTY				and the spin of the second second				Jun					
DATE:	3-13-9	18					TYPE C	OF COKE:	Lorrsa	0 SW			
	380						AMT. O	F COKE B	ACKFILL:	2000	The		
	: 65/4		•••				VENT F	PIPE: 35	201	0.000	1.644		
DRILLEF	R NAME:	Jack	Ledhe	Her			PERF.	PIPE: A	HOM 18	201			
SIZE AN	D TYPE C	F CASIN	G: \\\/	PUL X	211		ANODE	AMT. & T	YPE: AA	ter · 1	Director		
					no		BOULD	ER DRILL	NG: 16	/			
DEPTH			DEPTH			DEPTH					ORMATIO	N:	
FT.	LOG	ANODE		LOG	ANODE		LOG	ANODE			EPTHS: 200 Seep		
	<u> </u>								ISOLATIO	DN PLUG	S:	1 ⁷²	
100			265	1.9	10	430						i	
105	1		270	21		435	l	1			OUTPUT	OUTP	
110	1		275	2.3	9	440	t	1	ANODE#	DEPTH	NO COK		
115			280	ai	<u> </u>	445	<u> </u>	+	1	355		3.5	
120	İ		285	2.3	8	450	1		2	345	9.0	3.7	
125			290	1.7		455	 		3	335	2.3	4,0	
130			295	1.9	7	460			4	325	9.7	3,8	
135			300	1.9	<u> </u>	465			5	315	1.7	3,3	
140			305	1.9	6	470			6	305	20	3, 5	
145			310	1,9		475			7	295	79	3.4	
150			315	21	5	480	<u> </u>		8	285	1.9	3.4	
155			320	1.7		485	†		9	275		3,9	
160	1		325	1.8	4	490	1		10	265		3.9	
165			330	a,1		495	<u> </u>		11			1-317	
170			335	2.2	२	500			12		<u> </u>	<u> </u>	
175			340	2.2		505			13		· · · · · · · · · · · · · · · · · · ·	†	
180			345	2.0	2	510		1	14		1		
185			350	1,8	<u> </u>	515			15		1		
190			355	1.8	1	520			16			<u> </u>	
195			360	1.7	· · · · ·	525			17				
200	1.1		365	1.0		530			18			<u> </u>	
205	1.1		370	8		535			19				
210	1.7		375	,8	[540	t		20				
215	2.1		380	T.D.		545			21				
220	2.6		385		[550			22				
225	2.6		390		1	555			23	· · ·	1	<u> </u>	
230	2.5		395			560		-	24			 	
235	2.1		400			565			25			t	
240	2.10		405			570		1	26				
245	2.10		410			575		1	27			<u> </u>	
250	2.10		415			580	1		28			t	
255	2.7		420			585	1	1	29			†	
260	2.5		425			590	[1	30		· · · · · · ·	<u> </u>	
						595	<u> </u>					<u>† </u>	
OGING	VOLTS:	11.8	5		VOLTAG	E SOUR	CE: A	to		L	· · · · ·	<u> </u>	
OTAL A	MPS:	14.2			TOTAL C	BRESIS	STANCE	. 83	· · · · · · · · · · · · · · · · · · ·				

Page 32 of 83



APPENDIX C

Executed C-138 Solid Waste Acceptance Forms

Released to Imaging: 3/2/2022 4:07:29 PM

District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	Form C-138					
District II 1301 W. Grand Avenue, Artesia, NM 88210	Energy Minerals and Natural Resources	Revised 08/01/11					
District III	Oil Conservation Division	*Surface Waste Management Facility Operator and Generator shall maintain and make this					
1000 Rio Brazos Road, Aztec, NM 87410 District IV	1220 South St. Francis Dr.	documentation available for Division inspection.					
20 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505						
	FOR APPROVAL TO ACCEPT S	SOLID WASTE					
 Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 Originating Site: MD-7 Loop Location of Material (Street Address, City, State or ULSTR): Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699 							
2. Originating Site:							
MD-7 Loop							
3. Location of Material (Street Address Unit E Section 15 T 32 N R 10 W, S	ss, City, State or ULSTR): an Juan County, NM; 36.987093, -107.875699						
4. Source and Description of Waste:		2 2					
Source: Hydro excavation Spoils from a	Leak from a Natural Gas Gathering Line						
Description: Soil impacted with Netural C Estimated Volume 100 vd ³ (bbls) Kno	own Volume (to be entered by the operator at the er	nd of the haul) 25 yd ³ Tobls					
5. GENERA	TOR CERTIFICATION STATEMENT OF WA	SIE SIATUS					
I, Thomas Long , representative , Generator Signature	or authorized agent for Enterprise Products Operati	ng do hereby					
certify that according to the Resource Con	servation and Recovery Act (RCRA) and the US En	nvironmental Protection Agency's July 1988					
regulatory determination, the above descri	bed waste is: (Check the appropriate classification)						
RCRA Exempt: Oil field wastes exempt waste. <u>Operator Use Only</u>	generated from oil and gas exploration and product :: Waste Acceptance Frequency Monthly	ion operations and are not mixed with non- Weekly Per Load					
RCRA Non-Exempt: Oil field wa	aste which is non-hazardous that does not exceed th	e minimum standards for waste hazardous by					
characteristics established in RCRA r	egulations, 40 CFR 261.21-261.24, or listed hazard	ous waste as defined in 40 CFR, part 261,					
subpart D, as amended. The followin the appropriate items)	g documentation is attached to demonstrate the abo	ve-described waste is non-hazardous. (Check					
🗆 MSDS Information 📋 RCRA Haza	rdous Waste Analysis 🛛 Process Knowledge 🛛	□ Other (Provide description in Box 4)					
GENERATOR 19.15.36.15 V	VASTE TESTING CERTIFICATION STATEM	IENT FOR LANDFARMS					
Thomas Long							
I, Thomas Long 12-5-18, repres Generator Signature	entative for Enterprise Products Operating authorize	es <u>IEI, Inc.</u> to complete					
the required testing/sign the Generator Wa							
I, <u>loge</u> , representa	tive for <u>IEI, Inc.</u> te have been subjected to the paint filter test and test	do hereby certify that					
have been found to conform to the specific	c requirements applicable to landfarms pursuant to s	Section 15 of 19.15.36 NMAC. The results					
of the representative samples are attached	to demonstrate the above-described waste conform	to the requirements of Section 15 of					
19.15.36 NMAC.							
5. Transporter: Riley Industrial	CL=268 PL=7						
OCD Permitted Surface Waste Manage Name and Facility Permit #: JFJ Landfar Address of Facility: #49 CR 2150 Aztec,	m/Industrial Ecosystems, Inc. * Permit #: NM 01-	0010B					
Method of Treatment and/or Disposal:							
Evaporation Inje	ction 🗌 Treating Plant 🛛 Landfarm 🔲 I	Landfill 🗌 Other					
Waste Acceptance Status:	APPROVED DENIED	(Must Be Maintained As Permanent Record)					
		1 11.					
PRINT NAME: 1075 Ting-	ey TITLE: Trons L	DATE: 1/21/21					
BIGNATUŘE: Jon Line	TELEPHONE NO.: 5	05-632-1782					
Surface Waste Management	acility Authorized Agent	V.					
		18					

•

Rel	
ease	District I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Form C-138
d to	District II Energy Minerals and Natural Resources Revised 08/01/11 1301 W. Grand Avenue, Artesia, NM 88210 Oil Conservation Division *Surface Waste Management Excility Operator
Ima	District IIIOff Conservation Division*Surface Waste Management Facility Operator1000 Rio Brazos Road, Aztec, NM 874101220 South St. Francis Dr.and Generator shall maintain and make this
ging	istrict IV 220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 documentation available for Division inspection.
: 3/	REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
Released to Imaging: 3/2/2022 4:07:29 PM	District II 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Form C-138 District III 1020 Rio Brazos Road, Aztec, NM 87410 Diatrict III State of New Mexico 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. Santa Fe, NM 87505 Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection. 1000 Rio Brazos Road, Aztec, NM 87410 Santa Fe, NM 87505 Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection. 100 Rio Brazos Road, Aztec, NM 87505 Santa Fe, NM 87505 Surface Waste Management Facility Operator and Generator shall maintain and make this
24:0	2. Originating Site:
07:29	MD-7 Loop
PM	3. Location of Material (Street Address, City, State or ULSTR): Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699
	4. Source and Description of Waste:
	Source: Hydro excavation Spoils from a Leak from a Natural Gas Gathering Line Description: Soil impacted with Natural Gas Liquids (Condensate and Water)
	Estimated Volume 100 yd ³ (bbls) Known Volume (to be entered by the operator at the end of the haul) $\int yd^3$ (bbls)
	5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
	I, Thomas Long , representative or authorized agent for Enterprise Products Operating do hereby
	Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
	regulatory determination, the above described waste is: (Check the appropriate classification)
	RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency Monthly</u> <u>Weekly</u> <u>Per Load</u>
C	RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
	☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
	GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
	There Long-
	I, Thomas Long 3-29-2021, representative for Enterprise Products Operating authorizes <u>IEI, Inc.</u> to complete Generator Signature
	the required testing/sign the Generator Waste Testing Certification.
	I, <u><i>Betty</i></u> <u>Purel</u> , representative for <u>IEI, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
	19.15.36 NMAC. 5. Transporter: Riley Industrial
	OCD Permitted Surface Waste Management FacilityCL-CL-128Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010BCL-24Address of Facility: #49 CR 2150 Aztec, New MexicoP# - 7
	Method of Treatment and/or Disposal:
	Waste Acceptance Status:
	PRINT NAME: BETY PRUDEN TITLE: Clerk DATE: 3/29
(IGNATURE: Betty Pure TELEPHONE NO.: 505-632-1782
	Page 35 of 83



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Lateral MD 7 Loop (01/16/21) Ensolum Project No. 05A1226134



Page 37 of 83

Photograph 1

Photograph Description: View of the pipeline repair excavation activities (January 2021).



Photograph 2

Photograph Description: View of the pipeline repair excavation (January 2021; first sampling event).



Photograph 3

Photograph Description: View of the stockpiled soil (January 2021; first sampling event).



SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Lateral MD 7 Loop (01/16/21) Ensolum Project No. 05A1226134



Photograph 4 Photograph Description: View of the soil boring locations (March 2021; second sampling event).	
Photograph 5 Photograph Description: View of the soil boring locations (March 2021; second sampling event).	



APPENDIX E

Regulatory Correspondence

Long, Thomas

From: Sent:	Smith, Cory, EMNRD <cory.smith@state.nm.us> Wednesday, March 31, 2021 9:13 AM</cory.smith@state.nm.us>
To:	Long, Thomas
Cc:	Stone, Brian
Subject:	[EXTERNAL] RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699; Incident #NAPP2105454212

[Use caution with links/attachments]

Tom,

Thank you for the update, if all the samples meet the closure requirements of 19.15.29 NMAC. Enterprise may continue with the closure of the incident.

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, March 31, 2021 8:44 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699; Incident #NAPP2105454212

Cory,

The previous property owner removed the mobile home prior to the sale in September 2019.

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



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>> Sent: Wednesday, March 31, 2021 8:12 AM To: Long, Thomas <<u>tilong@eprod.com</u>>
 Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
 Subject: [EXTERNAL] RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, - 107.875699; Incident #NAPP2105454212

[Use caution with links/attachments]

Tom,

Why was the trailer moved? Does the land owner intend to put the trailer back?

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | Cory.Smith@state.nm.us http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <<u>tilong@eprod.com</u>>
Sent: Wednesday, March 31, 2021 7:47 AM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXT] FW: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699;
Incident #NAPP2105454212

Cory,

Please find the site sketch and lab report for the Lateral MB-7 Loop soil boring investigation. Since the mobile home to the east has been removed, this site falls with the NMOCD Tier III soil remediation standards. All soil sample results are below the NMOCD Tier III standards. Enterprise requests to proceed with closure with this release site. If you have any questions, please call or email.

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



From: Long, Thomas
Sent: Monday, March 29, 2021 7:16 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us
Cc: Stone, Brian
bmstone@eprod.com>

Subject: FW: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699; Incident #NAPP2105454212

Cory,

We will begin the hydro-excavating today at the Lateral MD-7 Loop site. In addition, soil samples will be collected throughout the day. If you have any questions, please call or email.

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



From: Long, Thomas
Sent: Wednesday, March 24, 2021 9:09 AM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699;
Incident #NAPP2105454212

Cory,

This is an update. We have postponed remediation/sampling activities to Monday, March 19, 2021 due to the snowy and muddy conditions. I will keep you informed as to when we resume. If you have any questions, please call or email.

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



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Tuesday, March 23, 2021 1:16 PM
To: Long, Thomas <<u>tilong@eprod.com</u>>

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

Subject: [EXTERNAL] RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, - 107.875699; Incident #NAPP2105454212

[Use caution with links/attachments]

Tom,

Ok so long is your are able to confirm that the soils coming up in the Augur are not mixed from through out the borehole I do not have any issues.

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tilong@eprod.com>
Sent: Tuesday, March 23, 2021 12:39 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699;
Incident #NAPP2105454212

Cory,

We will be utilizing a hand auger from within the hydro-excavated soil boring.

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



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Tuesday, March 23, 2021 12:37 PM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXTERNAL] RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, 107.875699; Incident #NAPP2105454212

[Use caution with links/attachments]

Tom,

How is Enterprise going to collect the sample?

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tilong@eprod.com>
Sent: Tuesday, March 23, 2021 12:35 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian
bmstone@eprod.com>
Subject: [EXT] RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699;
Incident #NAPP2105454212

Cory,

We were going to measure depths with a measuring tape. Total depths will be approximately seven feet below ground surface. We will collect a sample at the highest observed impact and one sample at the bottom. Please acknowledge acceptance of this sampling technique. If you have any questions, please call or email.

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



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Tuesday, March 23, 2021 12:22 PM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXTERNAL] RE: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, 107.875699; Incident #NAPP2105454212

[Use caution with links/attachments]

Tom,

If these are going to be used as confirmation samples, how do we know the soils are from the exact depth since we are using a hydro excavator?

Also how deep are they going? Is 5 aliquots and only 1 sample enough to cover the entire depth?

When doing borehole samples I would recommend following the NMAC Guidelines as at a minimum do Bottom hole and highest observed impacts.

Cory Smith • Environmental Specialist — Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <<u>tilong@eprod.com</u>>
Sent: Tuesday, March 23, 2021 9:16 AM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXT] FW: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699;
Incident #NAPP2105454212

Cory,

This email is a notification and variance request that Enterprise will be collecting soil sample for laboratory analysis at the Lateral MD-7 Loop release site beginning at 0800. Soil sampling will continue throughout the day until all soil borings are completed. Soil samples will be collected as vertical composites, which included five aliquots from ground surface to total depth from each soil boring. Please acknowledge acceptance this variance request. If you have any questions, please call or email.

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



From: Long, Thomas
Sent: Friday, March 19, 2021 8:20 AM
To: 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: Lateral MD-7 Loop - Unit E Section 15 T 32 N R 10 W, San Juan County, NM; 36.987093, -107.875699; Incident #NAPP2105454212

Cory,

Please find the attached for the Lateral MD-7 Loop. We will begin installing soil borings and collecting soil samples on Wednesday March 24, 2021. The soil borings will be installed utilizing a hydro-excavator as the pipeline is in service. I have attached a map illustrating to proposed soil boring locations. The excavation during the repairs was very small and there was no subsurface impacts according to the initial sampling results. If you have any questions, please call or email.

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



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



APPENDIX F

Soil Boring Logs



HA-1 BORING LOG

PROJECT NUMBER 05A1226134 PROJECT NAME Lateral MD 7 Loop (01/16/21) CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/29/21 DRILLING COMPANY Ensolum / Riley BORING METHOD Hand Auger / Hydrovac TOTAL DEPTH 8 ft NORTH COORDINATE NA WEST COORDINATE NA SURFACE COMPLETION NA LOGGED BY L. Daniell SAMPLER L. Daniell / C. D'Aponti

Note	s: Hand	Auger (HA) san	nples v	vere co	ollected	at intervals during hydro-excavation.	•
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining
-					, . , . , .	Sand: Brown, medium- to gravel-grained, angular, poorly sorted, dry, loose, no hydrocarbon odor	
- 0.5					0.0		
- 1 -					0000		
- 1.5					0.0		
	0.0				°, °, °,		
_					, <u>, , , , , , , , , , , , , , , , , , </u>		
- 3.5							
- 4	0.0	HA-1 @ 4'			0.0000		
- 4.5					0.0		
- 5					0.0		
- 5.5							
- 6	0.0				ι. C		
6.5					0.00.		
_					0.0		
- 7					0.0		
- 7.5	0.0	HA-1 @ 8'			0000		
8					,	TD at 8 ft bgs	-
- 8.5							
- 9							
 9.5							
_							



HA-2 BORING LOG

PROJECT NUMBER 05A1226134 PROJECT NAME Lateral MD 7 Loop (01/16/21) CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/29/21 DRILLING COMPANY Ensolum / Riley BORING METHOD Hand Auger / Hydrovac TOTAL DEPTH 7 ft NORTH COORDINATE NA WEST COORDINATE NA SURFACE COMPLETION NA LOGGED BY L. Daniell SAMPLER L. Daniell / C. D'Aponti

Note	s: Hand	Auger (HA) sar	mples v	vere c	ollecte	d at intervals during hydro-excavation.	
Depth (ft)	(mqq) OIA	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining
_					2000	Sand: Brown, medium- to gravel-grained, angular, poorly sorted, dry, loose, no hydrocarbon odor	
- 0.5							
-1					0.00		
- 1.5					0.0		
2	0.0				0.0		
- 2.5					0.0 0.0 0.0		
- 3					 		
- 3.5					,		
- 4		HA-2 @ 4'			°. C	Sandy Silty Clay: Brown, very fine to medium sand, dry, hard, no hydrocarbon odor	
- 4.5	0.0						
_							
- 5.5							
- 6	0.0						
6.5		HA-2 @ 7'					
7						Refusal at 7 ft bgs	
- - - 7.5							
- 8							
_							
- 8.5							
- 9							
9.5							
_							



HA-3 BORING LOG

PROJECT NUMBER 05A1226134 PROJECT NAME Lateral MD 7 Loop (01/16/21) CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/29/21 DRILLING COMPANY Ensolum / Riley BORING METHOD Hand Auger / Hydrovac TOTAL DEPTH 8 ft NORTH COORDINATE NA WEST COORDINATE NA SURFACE COMPLETION NA LOGGED BY L. Daniell SAMPLER L. Daniell / C. D'Aponti

Note	s: Hand	Auger (HA) sar	mples v	vere co	llecte	at intervals during hydro-excavation.	1
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining
- 0.5						Sand: Brown, medium- to gravel-grained, angular, poorly sorted, dry, loose, no hydrocarbon odor	
- 1							
- 1.5							
- 2	0.0				 		
2.5							
- 3							
- 3.5					0.0		
4	0.0	HA-3 @ 4'					
4.5					0.0		
- 5					0.0		
5.5				1 F			
6	0.0						
6.5					, 0, 0, , 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,		
- 7							
- 7.5		HA-3 @ 8'					
8	0.0			I 1	0.0 0	TD at 8 ft bgs	
8.5							
9							
9.5							
_							



HA-4 BORING LOG

PROJECT NUMBER 05A1226134 PROJECT NAME Lateral MD 7 Loop (01/16/21) CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/29/21 DRILLING COMPANY Ensolum / Riley BORING METHOD Hand Auger / Hydrovac TOTAL DEPTH 8 ft NORTH COORDINATE NA WEST COORDINATE NA SURFACE COMPLETION NA LOGGED BY L. Daniell SAMPLER L. Daniell / C. D'Aponti

Notes	s: Hand /	Auger (HA) san	ıples v	vere co	ollecte	at intervals during hydro-excavation.	_
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining
-					2000	Sand: Brown, medium- to gravel-grained, angular, poorly sorted, dry, loose, no hydrocarbon odor	
- 0.5					0.0		
1 					0000		
1.5 							
- 2	0.0				0.000		
					0.0		
- 3					0.0		
- - 4							
- - - 4.5	0.0	HA-4 @ 4'					
_							
- 5							
- 5.5 -							
- 6	0.0				0.00		
6.5							
- 7					; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		
- 7.5	0.0	HA-4 @ 8'					
- - - -	0.0				0.0	TD at 8 ft bgs	
9							
 9.5							
_							



HA-5 BORING LOG

PROJECT NUMBER 05A1226134 PROJECT NAME Lateral MD 7 Loop (01/16/21) CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/29/21 DRILLING COMPANY Ensolum / Riley BORING METHOD Hand Auger / Hydrovac TOTAL DEPTH 8 ft NORTH COORDINATE NA WEST COORDINATE NA SURFACE COMPLETION NA LOGGED BY L. Daniell SAMPLER L. Daniell / C. D'Aponti

Note	s: Hand	Auger (HA) san	nples v	vere co		at intervals during hydro-excavation.	
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining
-					0000 2000	Sand: Brown, medium- to gravel-grained, angular, poorly sorted, dry, loose, no hydrocarbon odor	
0.5							
1					0000		
 1.5					0.0 0.0		
-					000		
- 2	0.0				0000		
2.5					0.0		
- 3					°, °, °,		
 3.5					0.0		
- 4							
_	0.0	HA-5 @ 4'					
_ 4.5					0.0		
- 5					0.0		
	0.0				с, С		
 6.5					0,00,00		
-							
- 7					°.		
7.5		HA-5 @ 8'					
8	0.0				0.0 0.0	TD at 8 ft bgs	
_							
9 							
9.5							
_							



APPENDIX G

Tables

ENSOLUM

	TABLE 1A												
	Lateral MD 7 Loop (01/16/21)												
	SOIL ANALYTICAL SUMMARY (SOIL ZONE: CONTAINS SAMPLES FROM < 4 FEET BGS)												
Sample I.D.	Sample I.D. Date Sample Type Sample Depth Benzene Toluene Ethylbenzene Xylenes Total BTEX TPH TPH TPH Total C										Total Combined	Chloride	
		C- Composite G - Grab	(Feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH (GRO/DRO/MRO)	(mg/kg)
		0 Olub							(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
		Natural Resources		10	NE	NE	NE	50				100	600
Oil Co	onservation Division	n Closure Criteria (1	Fier III)	10	NL.	ME						100	
					Composite So	il Sample Collected	from Stockpiled Se	oil (January 2021)					
SP-1	1.22.21	С	Stockpile	<0.022	<0.043	<0.043	<0.086	ND	<4.3	<9.6	<48	ND	86
						Hand Auger Soil S	amples (March 202	21)					
HA-1 @ 4'	3.29.21	G	4	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.2	<46	ND	<60
HA-2 @ 4'	3.29.21	G	4	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<9.8	<49	ND	200
HA-3 @ 4'	3.29.21	G	4	<0.021	<0.043	<0.043	<0.085	ND	<4.3	<9.1	<45	ND	<59
HA-4 @ 4'	3.29.21	G	4	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.1	<45	ND	<61
HA-5 @ 4'	3.29.21	G	4	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.4	<47	ND	<60

Note:

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NA = Not Analyzed

NE = Not Established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLU	Μ
---------------	---

	TABLE 1B Lateral MD 7 Loop (01/16/21) SOIL ANALYTICAL SUMMARY (CONTAINS SAMPLES FROM >4 FEET BGS)													
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 (mg/kg)	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH (GRO/DRO)	Total Combined TPH (GRO/DRO/MRO) ¹	Chloride (mg/kg)
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
		Natural Resources n Closure Criteria (1		10	NE	NE	NE	50				1,000	2,500	20,000
						Excavation C	omposite Soil San	nple (January 2021)						
S-1	1.22.21	С	0 to 7	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.8	<49	ND	ND	120
						Hand A	uger Soil Samples	(March 2021)						
HA-1 @ 8'	3.29.21	G	8	<0.020	<0.039	<0.039	<0.078	ND	<3.9	<9.6	<48	ND	ND	69
HA-2 @ 7'	3.29.21	G	7	<0.022	<0.044	<0.044	<0.087	ND	<4.4	10	<49	10	10	180
HA-3 @ 8'	3.29.21	G	8	<0.023	<0.046	<0.046	<0.091	ND	<4.6	<9.4	<47	ND	ND	<61
HA-4 @ 8'	3.29.21	G	8	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.1	<45	ND	ND	<60
HA-5 @ 8'	3.29.21	G	8	<0.020	<0.039	<0.039	<0.078	ND	<3.9	17	150	17	170	<60

Note:

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 or Reporting Limits

NA = Not Analyzed

NE = Not Established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



APPENDIX H

Laboratory Data Sheets & Chain of Custody Documentation

Released to Imaging: 3/2/2022 4:07:29 PM



January 28, 2021

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

RE: MD 7 Loop Jan 2021

OrderNo.: 2101893

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/23/2021 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2101893

Date Reported: 1/28/2021

CLIENT	: ENSOLUM	(Client Sample ID: S-1
Project:	MD 7 Loop Jan 2021		Collection Date: 1/22/2021 2:00:00 PM
Lab ID:	2101893-001	Matrix: MEOH (SOIL)	Received Date: 1/23/2021 9:28:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	120	61	mg/Kg	20	1/25/2021 9:52:34 AM	57703
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analys	t: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/25/2021 8:04:11 AM	57700
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/25/2021 8:04:11 AM	57700
Surr: DNOP	96.9	30.4-154	%Rec	1	1/25/2021 8:04:11 AM	57700
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	1/24/2021 10:53:45 AN	1 57694
Surr: BFB	96.0	75.3-105	%Rec	1	1/24/2021 10:53:45 AM	1 57694
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.019	mg/Kg	1	1/24/2021 10:53:45 AN	1 57694
Toluene	ND	0.038	mg/Kg	1	1/24/2021 10:53:45 AN	1 57694
Ethylbenzene	ND	0.038	mg/Kg	1	1/24/2021 10:53:45 AN	1 57694
Xylenes, Total	ND	0.076	mg/Kg	1	1/24/2021 10:53:45 AM	1 57694
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	1/24/2021 10:53:45 AM	1 57694

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2101893

Date Reported: 1/28/2021

CLIENT	: ENSOLUM	С	lient Sample ID: SP-1
Project:	MD 7 Loop Jan 2021		Collection Date: 1/22/2021 2:05:00 PM
Lab ID:	2101893-002	Matrix: MEOH (SOIL)	Received Date: 1/23/2021 9:28:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	86	60	mg/Kg	20	1/25/2021 10:04:58 AM	57703
EPA METHOD 8015M/D: DIESEL RANGE OF	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/25/2021 8:27:40 AM	57700
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/25/2021 8:27:40 AM	57700
Surr: DNOP	97.8	30.4-154	%Rec	1	1/25/2021 8:27:40 AM	57700
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	1/24/2021 11:17:30 AM	57694
Surr: BFB	94.9	75.3-105	%Rec	1	1/24/2021 11:17:30 AM	57694
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.022	mg/Kg	1	1/24/2021 11:17:30 AM	57694
Toluene	ND	0.043	mg/Kg	1	1/24/2021 11:17:30 AM	57694
Ethylbenzene	ND	0.043	mg/Kg	1	1/24/2021 11:17:30 AM	57694
Xylenes, Total	ND	0.086	mg/Kg	1	1/24/2021 11:17:30 AM	57694
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	1/24/2021 11:17:30 AM	57694

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Client:	ENSOLUM						
Project:	MD 7 Loop Jan 20	21					
Sample ID: MB-5	7703 Samp	Type: MBLK	Те	stCode: EPA Method	300.0: Anions		
Client ID: PBS	Bato	h ID: 57703		RunNo: 74822			
Prep Date: 1/25	/2021 Analysis I	Date: 1/25/2	021	SeqNo: 2641404	Units: mg/Kg		
Analyte	Result	PQL SP	K value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride	ND	1.5					
Sample ID: LCS-	57703 Samp	Type: LCS	Те	stCode: EPA Method	300.0: Anions		
Client ID: LCSS	Bato	h ID: 57703		RunNo: 74822			
Prep Date: 1/25	/2021 Analysis I	Date: 1/25/2	021	SeqNo: 2641405	Units: mg/Kg		
Analyte	Result	PQL SP	K value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride	14	1.5	15.00 0	94.4 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
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

2101893

28-Jan-21

WO#:

QC SUMMARY REPORT Hall En

	WO#:	2101893
nvironmental Analysis Laboratory, Inc.		28-Jan-21

Client: ENSOLU	JM		
Project: MD 7 Lo	oop Jan 2021		
Sample ID: MB-57700	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 57700	RunNo: 74844	
Prep Date: 1/23/2021	Analysis Date: 1/25/2021	SeqNo: 2641559	Units: mg/Kg
Analyte	Result PQL SPK value S	PK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50	404 00.4	454
Surr: DNOP	10 10.00	101 30.4	154
Sample ID: LCS-57700	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 57700	RunNo: 74844	
Prep Date: 1/23/2021	Analysis Date: 1/25/2021	SeqNo: 2641560	Units: mg/Kg
Analyte	Result PQL SPK value S	PK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	46 10 50.00	0 91.6 68.9	141
Surr: DNOP	4.4 5.000	88.4 30.4	154
Sample ID: LCS-57717	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 57717	RunNo: 74840	
Prep Date: 1/25/2021	Analysis Date: 1/26/2021	SeqNo: 2641647	Units: %Rec
Analyte	Result PQL SPK value S	PK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.0 5.000	101 30.4	154
Sample ID: MB-57717	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 57717	RunNo: 74840	
Prep Date: 1/25/2021	Analysis Date: 1/26/2021	SeqNo: 2641649	Units: %Rec
Analyte	Result PQL SPK value S	PK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10.00	110 30.4	154

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

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

23

1100

5.0

25.00

1000

Client:ENSOLProject:MD 7 L	.UM .oop Jan 2021				
Sample ID: mb-57694 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 57694	RunNo: 74814			
Prep Date: 1/22/2021	Analysis Date: 1/24/2021	SeqNo: 2640378	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	940 1000	94.5 75.3	105		
Sample ID: Ics-57694	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	•	
Client ID: LCSS	Batch ID: 57694	RunNo: 74814			
Prep Date: 1/22/2021	Analysis Date: 1/24/2021	SeqNo: 2640379	Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual	

0

92.7

107

80

75.3

120

105

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

Gasoline Range Organics (GRO)

Surr: BFB

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

2101893

28-Jan-21

S

WO#:

ige 5 01 0

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	WO#:	2101893	
orv. Inc.		10 Jan 21	

28-Jan-21

Client: ENSOI Project: MD 7 I	LUM Loop Jan 202	21								
Sample ID: mb-57694 SampType: MBLK TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS Batch ID: 57694			F	RunNo: 7	4814					
Prep Date: 1/22/2021	Analysis D	Date: 1/	24/2021	5	SeqNo: 2	640429	Units: mg/K	íg		
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	0.97		1.000		97.1	80	120			
Sample ID: LCS-57694	SampT	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: 57	694	F	RunNo: 7	4814				
Prep Date: 1/22/2021	Analysis E	Date: 1/	24/2021	S	SeqNo: 2	640430	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	94.0	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6

5. Sample(s) in proper container(s)? Yes ✓ No 6. Sufficient sample volume for indicated test(s)? Yes ✓ No 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ No 8. Was preservative added to bottles? Yes ✓ No 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 10. Were any sample containers received broken? Yes No 11. Does paperwork match bottle labels? Yes No (Note discrepancies on chain of custody) Yes ✓ No 12. Are matrices correctly identified on Chain of Custody? Yes ✓ No 13. Is it clear what analyses were requested? Yes ✓ No 14. Were all holding times able to be met? Yes ✓ No 14. Were all holding times able to be met? Yes ✓ No 15. Special Handling (if applicable) Special Handling (if applicable) ✓	□ NA □ □ NA □
Completed By: Desiree Dominguez 1/23/2021 9:34:11 AM Reviewed By: $\mathcal{W} \setminus \left 23 \right _{2} \setminus$ Chain of Custody 1. Is Chain of Custody complete? Yes \checkmark No [2. How was the sample delivered? Client Log In 3. Was an attempt made to cool the samples? Yes \checkmark No [4. Were all samples received at a temperature of >0° C to 6.0°C Yes \checkmark No [5. Sample(s) in proper container(s)? Yes \checkmark No [6. Sufficient sample volume for indicated test(s)? Yes \checkmark No [7. Are samples (except VOA and ONG) properly preserved? Yes \checkmark No [9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes \square No [10. Were any sample containers received broken? Yes \square No [11. Does paperwork match bottle labels? Yes \checkmark No [13. Is it clear what analyses were requested? Yes \checkmark No [14. Ware all holding times able to be met? Yes \checkmark No [15. Sample(s) in or container for authorization.) Special Handling (if applicable)	□ NA □ □ NA □
Reviewed By: $\[mathbb{W}] (23) (2)$ Chain of Custody 1. Is Chain of Custody complete? Yes $\[mathbb{W}]$ No [2. How was the sample delivered? Client Log In 3. Was an attempt made to cool the samples? Yes $\[mathbb{W}]$ No [4. Were all samples received at a temperature of >0° C to 6.0°C Yes $\[mathbb{W}]$ No [5. Sample(s) in proper container(s)? Yes $\[mathbb{W}]$ No [6. Sufficient sample volume for indicated test(s)? Yes $\[mathbb{W}]$ No [7. Are samples (except VOA and ONG) properly preserved? Yes $\[mathbb{W}]$ No [8. Was preservative added to bottles? Yes $\[mathbb{W}]$ No [9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes $\[mathbb{W}]$ No [10. Were any sample containers received broken? Yes $\[mathbb{W}]$ No [11. Does paperwork match bottle labels? Yes $\[mathbb{W}]$ No [12. Are matrices correctly identified on Chain of Custody? Yes $\[mathbb{W}]$ No [13. Is it clear what analyses were requested? Yes $\[mathbb{W}]$ No [14. Were all holding times able to be met? Yes $\[mathbb{W}]$ No [14. Were all holding times able to be met? Yes $\[mathbb{W}]$ No [15. Sepecial Handling (if applicable)	□ NA □ □ NA □
Chain of Custody 1. Is Chain of Custody complete? Yes 2. How was the sample delivered? Client 2. How was the sample delivered? Client 3. Was an attempt made to cool the samples? Yes No 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No 5. Sample(s) in proper container(s)? Yes No No 6. Sufficient sample volume for indicated test(s)? Yes No No 7. Are samples (except VOA and ONG) properly preserved? Yes No No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	□ NA □ □ NA □
1. Is Chain of Custody complete? Yes ✓ No 2. How was the sample delivered? Client 3. Was an attempt made to cool the samples? Yes ✓ No 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ No 5. Sample(s) in proper container(s)? Yes ✓ No □ 6. Sufficient sample volume for indicated test(s)? Yes ✓ No □ 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ No □ 8. Was preservative added to bottles? Yes ✓ No □ 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	□ NA □ □ NA □
2. How was the sample delivered? Client Log In 3. Was an attempt made to cool the samples? Yes No 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No 5. Sample(s) in proper container(s)? Yes Yes No 6. Sufficient sample volume for indicated test(s)? Yes No No 7. Are samples (except VOA and ONG) properly preserved? Yes No No 8. Was preservative added to bottles? Yes No No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	□ NA □ □ NA □
Log In 3. Was an attempt made to cool the samples? Yes 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 5. Sample(s) in proper container(s)? Yes 6. Sufficient sample volume for indicated test(s)? Yes 7. Are samples (except VOA and ONG) properly preserved? Yes 8. Was preservative added to bottles? Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	NA 🗍
3. Was an attempt made to cool the samples? Yes ✓ No 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ No 5. Sample(s) in proper container(s)? Yes ✓ No 6. Sufficient sample volume for indicated test(s)? Yes ✓ No 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ No 8. Was preservative added to bottles? Yes ✓ No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	NA 🗍
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ No 5. Sample(s) in proper container(s)? Yes ✓ No 6. Sufficient sample volume for indicated test(s)? Yes ✓ No 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ No 8. Was preservative added to bottles? Yes ✓ No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	NA 🗍
5. Sample(s) in proper container(s)? Yes ✓ No 6. Sufficient sample volume for indicated test(s)? Yes ✓ No 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ No 8. Was preservative added to bottles? Yes ✓ No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
6. Sufficient sample volume for indicated test(s)? Yes ✓ No 7. Are samples (except VOA and ONG) properly preserved? Yes ✓ No 8. Was preservative added to bottles? Yes ✓ No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
8. Was preservative added to bottles? Yes No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
10. Were any sample containers received broken? Yes No 11. Does paperwork match bottle labels? Yes Yes No (Note discrepancies on chain of custody) Yes Yes No 12. Are matrices correctly identified on Chain of Custody? Yes Yes No 13. Is it clear what analyses were requested? Yes Yes No 14. Were all holding times able to be met? Yes Yes No (If no, notify customer for authorization.) Special Handling (if applicable) Yes Yes	
11. Does paperwork match bottle labels? Yes ✓ No (Note discrepancies on chain of custody) Yes ✓ No (2. Are matrices correctly identified on Chain of Custody? Yes ✓ No [3. Is it clear what analyses were requested? Yes ✓ No [4. Were all holding times able to be met? Yes ✓ No (If no, notify customer for authorization.) Special Handling (if applicable) ✓	
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? Yes ✓ No 13. Is it clear what analyses were requested? Yes ✓ No 14. Were all holding times able to be met? Yes ✓ No (If no, notify customer for authorization.) Special Handling (if applicable)	
2. Are matrices correctly identified on Chain of Custody? Yes ✓ No [3.] Is it clear what analyses were requested? Yes ✓ No [4.] Were all holding times able to be met? Yes ✓ No [16] no, notify customer for authorization.) Yes ✓ No	# of preserved bottles checked for pH:
3. Is it clear what analyses were requested? Yes Yes No 14. Were all holding times able to be met? Yes Yes No (If no, notify customer for authorization.) Yes Yes No	Adjusted?
14. Were all holding times able to be met? Yes ✓ No (If no, notify customer for authorization.) Special Handling (if applicable) ✓	
	Checked by: DHD 01/23/21
15. Was client notified of all discrepancies with this order? Yes 🗌 No 🛛	
	NA 🗹
Person Notified: Date:	
By Whom: Via: eMail Phone F	Fax 🔲 In Person
Regarding:	
Client Instructions:	Linds and a support of the first advantation of
16. Additional remarks:	
17. <u>Cooler Information</u>	
Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 3.4 Good Image: Signed By Signed By	

many water a second substance of the second substance of

Page 1 of 1

<i>Received by OCD: 8/31/2021</i>	2:38:19 PM	\top \top			Page 65 of 83
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request					alytical report.
HALL ENVIRONMENT ANALYSIS LABORATC www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(AOV-ime) 0528 (tresedA\tresent) mrofiloO lsto				S C
NV SIS vironr buque Fax 4	(AOV) 0928	3			dearty c
LYS allenv - Alb - Alb F	1) - BK NON NOS, POL, 304	<u>)</u> 85	$\overline{\mathbf{x}}$		R & J R & J a will be clea
LLL AL N.hal NE - 975 A	sisteM 8 AAD	i T		\uparrow	Tom RE
LA www ins h	2MIS0728 no 0188 yd aHA ^C	1			acted 4
HALL ANAL www.ha Hawkins NE 505-345-3975	(1.405 bonteM) 803	1			
HALI ANAI www.hi 4901 Hawkins NE Tel. 505-345-3975	8081 Pesticides/8082 PCB's				A P S
	TPH:8015D(GRO / DRO / MRO)				Remarks: <i>H</i> <i>Possibility</i> . Al
	BTEX / MTBE/ TMB's (8021)		9		Ren
1000 Sum Jam Jam Jam Jam Jam Jam Jam Jam Jam Ja	ners 2011, 310 0.2= 3,4 (°C) tive HEAL No.		7.00 -		$\frac{1}{1/2} \frac{1}{2} $
d Time: d 蛇/R ne: ル) - フ	ager: Summe A D H Pou Mineraling cri: 3/4 Preservative Type	101	[10]		Via: Na: Via: CDO
Turn-Around Time:	Project Manager: <i>K Summar</i> Sampler: <i>N M POD</i> On Ice: X Yes M of Coolers A Cooler Templinating cn: 3,4 Container Type and # Type	1 402	1 100.25		Received by: Received by:
Chain-of-Custody Record t: Ensolum, (2 C, 19 Adress: Lob Ship Grand 1.7 A S7410 e#:	 Level 4 (Full Validation) Az Compliance Other Matrix Sample Name 		54~1		Time: Relinquished by: Received by: Via: Date Time Remarks: P Tom D 1<54
hain-of-Cu En solum Address: 20					Relinq ary, samples
Client: $E_n \leq c$ Mailing Address: $E_n \neq A$ Phone #:	email or Fax#: QA/QC Package: C Standard Accreditation: NELAC D NELAC Date Time		5061		Time: 744 928 1 necessary
Client: Control of the second		12/2	22/		 Date: 1/21/21



April 01, 2021

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

OrderNo.: 2103D37

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: MD 7 Loop 2021

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/30/2021 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT	: ENSOLUM	Client Sample ID: HA-1 @ 4
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 9:05:00 AM
Lab ID:	2103D37-001	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/30/2021 10:17:22 AM	59055
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/30/2021 11:46:45 AM	59052
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/30/2021 11:46:45 AM	59052
Surr: DNOP	103	70-130	%Rec	1	3/30/2021 11:46:45 AM	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	3/30/2021 9:01:33 AM	G76321
Surr: BFB	97.6	75.3-105	%Rec	1	3/30/2021 9:01:33 AM	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	3/30/2021 9:01:33 AM	B76321
Toluene	ND	0.038	mg/Kg	1	3/30/2021 9:01:33 AM	B76321
Ethylbenzene	ND	0.038	mg/Kg	1	3/30/2021 9:01:33 AM	B76321
Xylenes, Total	ND	0.076	mg/Kg	1	3/30/2021 9:01:33 AM	B76321
Surr: 4-Bromofluorobenzene	97.0	80-120	%Rec	1	3/30/2021 9:01:33 AM	B76321

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT	: ENSOLUM	Client Sample ID: HA-1 @ 8
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 9:20:00 AM
Lab ID:	2103D37-002	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	69	61	mg/Kg	20	3/30/2021 10:29:46 AN	59055
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/30/2021 11:56:22 AN	59052
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/30/2021 11:56:22 AN	59052
Surr: DNOP	103	70-130	%Rec	1	3/30/2021 11:56:22 AN	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	3/30/2021 9:25:15 AM	G76321
Surr: BFB	98.0	75.3-105	%Rec	1	3/30/2021 9:25:15 AM	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	3/30/2021 9:25:15 AM	B76321
Toluene	ND	0.039	mg/Kg	1	3/30/2021 9:25:15 AM	B76321
Ethylbenzene	ND	0.039	mg/Kg	1	3/30/2021 9:25:15 AM	B76321
Xylenes, Total	ND	0.078	mg/Kg	1	3/30/2021 9:25:15 AM	B76321
Surr: 4-Bromofluorobenzene	97.6	80-120	%Rec	1	3/30/2021 9:25:15 AM	B76321

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT	: ENSOLUM	Client Sample ID: HA-2 @ 4
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 9:30:00 AM
Lab ID:	2103D37-003	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	200	60	mg/Kg	20	3/30/2021 10:42:10 AM	59055
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/30/2021 12:06:00 PM	59052
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/30/2021 12:06:00 PM	59052
Surr: DNOP	100	70-130	%Rec	1	3/30/2021 12:06:00 PM	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	3/30/2021 9:48:55 AM	G76321
Surr: BFB	100	75.3-105	%Rec	1	3/30/2021 9:48:55 AM	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	3/30/2021 9:48:55 AM	B76321
Toluene	ND	0.041	mg/Kg	1	3/30/2021 9:48:55 AM	B76321
Ethylbenzene	ND	0.041	mg/Kg	1	3/30/2021 9:48:55 AM	B76321
Xylenes, Total	ND	0.082	mg/Kg	1	3/30/2021 9:48:55 AM	B76321
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	3/30/2021 9:48:55 AM	B76321

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT: ENSOLUM	Client Sample ID: HA-2 @ 7
Project: MD 7 Loop 2021	Collection Date: 3/29/2021 10:00:00 AM
Lab ID: 2103D37-004	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	180	60	mg/Kg	20	3/30/2021 10:54:35 AM	59055
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	: mb
Diesel Range Organics (DRO)	10	9.8	mg/Kg	1	3/30/2021 12:15:39 PM	59052
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/30/2021 12:15:39 PM	59052
Surr: DNOP	103	70-130	%Rec	1	3/30/2021 12:15:39 PM	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	3/30/2021 10:12:32 AM	G76321
Surr: BFB	98.3	75.3-105	%Rec	1	3/30/2021 10:12:32 AM	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	3/30/2021 10:12:32 AM	B76321
Toluene	ND	0.044	mg/Kg	1	3/30/2021 10:12:32 AM	B76321
Ethylbenzene	ND	0.044	mg/Kg	1	3/30/2021 10:12:32 AM	B76321
Xylenes, Total	ND	0.087	mg/Kg	1	3/30/2021 10:12:32 AM	B76321
Surr: 4-Bromofluorobenzene	97.5	80-120	%Rec	1	3/30/2021 10:12:32 AM	B76321

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT:	ENSOLUM	Client Sample ID: HA-3 @ 4
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 10:15:00 AM
Lab ID:	2103D37-005	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	3/30/2021 11:06:59 AM	59055
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/30/2021 12:25:20 PM	59052
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/30/2021 12:25:20 PM	59052
Surr: DNOP	101	70-130	%Rec	1	3/30/2021 12:25:20 PM	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	3/30/2021 10:36:12 AM	G76321
Surr: BFB	98.0	75.3-105	%Rec	1	3/30/2021 10:36:12 AM	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	3/30/2021 10:36:12 AM	B76321
Toluene	ND	0.043	mg/Kg	1	3/30/2021 10:36:12 AM	B76321
Ethylbenzene	ND	0.043	mg/Kg	1	3/30/2021 10:36:12 AM	B76321
Xylenes, Total	ND	0.085	mg/Kg	1	3/30/2021 10:36:12 AM	B76321
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	3/30/2021 10:36:12 AM	B76321

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT	: ENSOLUM	Client Sample ID: HA-3 @ 8
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 10:30:00 AM
Lab ID:	2103D37-006	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	61	mg/Kg	20	3/30/2021 11:19:24 AN	59055
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/30/2021 12:34:57 PN	59052
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/30/2021 12:34:57 PN	59052
Surr: DNOP	117	70-130	%Rec	1	3/30/2021 12:34:57 PN	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/30/2021 11:00:01 AN	G76321
Surr: BFB	97.0	75.3-105	%Rec	1	3/30/2021 11:00:01 AN	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/30/2021 11:00:01 AN	B76321
Toluene	ND	0.046	mg/Kg	1	3/30/2021 11:00:01 AN	B76321
Ethylbenzene	ND	0.046	mg/Kg	1	3/30/2021 11:00:01 AN	B76321
Xylenes, Total	ND	0.091	mg/Kg	1	3/30/2021 11:00:01 AN	B76321
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	3/30/2021 11:00:01 AN	B76321

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT:	: ENSOLUM	Client Sample ID: HA-4 @ 4
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 10:40:00 AM
Lab ID:	2103D37-007	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	61	mg/Kg	20	3/30/2021 11:56:38 AN	59055
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/30/2021 12:44:39 PN	59052
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/30/2021 12:44:39 PN	59052
Surr: DNOP	98.3	70-130	%Rec	1	3/30/2021 12:44:39 PM	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	3/30/2021 11:23:42 AN	G76321
Surr: BFB	100	75.3-105	%Rec	1	3/30/2021 11:23:42 AN	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	3/30/2021 11:23:42 AN	B76321
Toluene	ND	0.040	mg/Kg	1	3/30/2021 11:23:42 AN	B76321
Ethylbenzene	ND	0.040	mg/Kg	1	3/30/2021 11:23:42 AN	B76321
Xylenes, Total	ND	0.080	mg/Kg	1	3/30/2021 11:23:42 AN	B76321
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	1	3/30/2021 11:23:42 AN	B76321

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT	: ENSOLUM	Client Sample ID: HA-4 @ 8
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 10:50:00 AM
Lab ID:	2103D37-008	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/30/2021 12:09:03 PM	59055
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/30/2021 12:54:18 PM	59052
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/30/2021 12:54:18 PM	59052
Surr: DNOP	98.8	70-130	%Rec	1	3/30/2021 12:54:18 PM	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	3/30/2021 11:47:18 AM	G76321
Surr: BFB	96.6	75.3-105	%Rec	1	3/30/2021 11:47:18 AM	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	3/30/2021 11:47:18 AM	B76321
Toluene	ND	0.037	mg/Kg	1	3/30/2021 11:47:18 AM	B76321
Ethylbenzene	ND	0.037	mg/Kg	1	3/30/2021 11:47:18 AM	B76321
Xylenes, Total	ND	0.075	mg/Kg	1	3/30/2021 11:47:18 AM	B76321
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	3/30/2021 11:47:18 AM	B76321

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT:	ENSOLUM	Client Sample ID: HA-5 @ 4
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 11:00:00 AM
Lab ID:	2103D37-009	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/30/2021 12:21:28 PN	59055
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/30/2021 1:03:59 PM	59052
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/30/2021 1:03:59 PM	59052
Surr: DNOP	97.3	70-130	%Rec	1	3/30/2021 1:03:59 PM	59052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/30/2021 12:34:17 PN	G76321
Surr: BFB	100	75.3-105	%Rec	1	3/30/2021 12:34:17 PN	G76321
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/30/2021 12:34:17 PN	B76321
Toluene	ND	0.046	mg/Kg	1	3/30/2021 12:34:17 PN	B76321
Ethylbenzene	ND	0.046	mg/Kg	1	3/30/2021 12:34:17 PN	B76321
Xylenes, Total	ND	0.092	mg/Kg	1	3/30/2021 12:34:17 PM	B76321
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	3/30/2021 12:34:17 PN	B76321

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2103D37

Date Reported: 4/1/2021

CLIENT	: ENSOLUM	Client Sample ID: HA-5 @ 8
Project:	MD 7 Loop 2021	Collection Date: 3/29/2021 11:10:00 AM
Lab ID:	2103D37-010	Matrix: MEOH (SOIL) Received Date: 3/30/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	3/30/2021 12:33:52 PM	1 59055
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analys	t: mb
Diesel Range Organics (DRO)	17	9.4	mg/Kg	1	3/30/2021 1:13:41 PM	59052
Motor Oil Range Organics (MRO)	150	47	mg/Kg	1	3/30/2021 1:13:41 PM	59052
Surr: DNOP	120	70-130	%Rec	1	3/30/2021 1:13:41 PM	59052
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	3/30/2021 12:58:12 PM	1 G76321
Surr: BFB	98.5	75.3-105	%Rec	1	3/30/2021 12:58:12 PM	I G76321
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.020	mg/Kg	1	3/30/2021 12:58:12 PM	1 B76321
Toluene	ND	0.039	mg/Kg	1	3/30/2021 12:58:12 PM	1 B76321
Ethylbenzene	ND	0.039	mg/Kg	1	3/30/2021 12:58:12 PM	1 B76321
Xylenes, Total	ND	0.078	mg/Kg	1	3/30/2021 12:58:12 PM	1 B76321
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	3/30/2021 12:58:12 PM	1 B76321

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 10 of 14

Prep Date:

Analyte

Chloride

3/30/2021

Analysis Date: 3/30/2021

Result

14

PQL

1.5

15.00

Client: Project:	ENSOLU MD 7 Lo											
Sample ID: MB-59055 SampType: MBLK					Tes	TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Client ID: PBS Batch ID: 59055			RunNo: 76305								
Prep Date: 3/3	80/2021	Analysis D	ate: 3/	30/2021	S	eqNo: 2	703352	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5									
Sample ID: LCS	5-59055	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anion	S			
Client ID: LCS	S	Batch	n ID: 59	055	R	unNo: 7	6305					

SeqNo: 2703353

93.3

SPK value SPK Ref Val %REC LowLimit

0

Units: mg/Kg

110

HighLimit

90

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 ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 11 of 14

2103D37

01-Apr-21

WO#:

RPDLimit

Qual

%RPD

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:ENSOIProject:MD 7 I	LUM Loop 2021									
Sample ID: MB-59052	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS Batch ID: 59052		F	RunNo: 76317							
Prep Date: 3/30/2021	Analysis D	ate: 3/	30/2021	S	SeqNo: 2	702193	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	9.7		10.00		97.0	70	130			
Sample ID: LCS-59052	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: 59	052	F	RunNo: 7	6317				
Prep Date: 3/30/2021	Analysis D	ate: 3/	30/2021	S	SeqNo: 27	702194	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.4	68.9	141			
Surr: DNOP	4.9		5.000		98.2	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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 14

WO#: 2103D37 01-Apr-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	SOLUM 7 Loop 2021									
Sample ID: mb	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batc	h ID: G7	6321	F	RunNo: 7	6321				
Prep Date:	Analysis I	Date: 3/	30/2021	S	SeqNo: 2	702617	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	0) ND	5.0								
Surr: BFB	1000		1000		104	75.3	105			
Sample ID: 2.5ug gro lo	s Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batc	h ID: G7	6321	F	RunNo: 7	6321				
Prep Date:	Analysis I	Date: 3/	30/2021	S	SeqNo: 2	702618	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	0) 23	5.0	25.00	0	92.4	80	120			
Surr: BFB	1100		1000		110	75.3	105			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 14

WO#: 2103D37 01-Apr-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2103D37
	01 4 21

01-Apr-21

	SOLUM 7 Loop 2021									
Sample ID: mb SampType: MBLK				Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	Batch ID: B76321			RunNo: 7	6321				
Prep Date:	Analysis I	Date: 3/	30/2021	S	SeqNo: 2	702649	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	1.0		1.000		99.8	80	120			
Sample ID: 100ng btex	lcs Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: B7	6321	RunNo: 76321						
Prep Date:	Analysis I	Date: 3/	30/2021	S	SeqNo: 2	702650	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.6	80	120			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 14

Page	81	0	f 83

ANALYSIS	Hall Envi AL TEL: 505	ronmental Analysis Lab 4901 Haw Albuquerque, NN -345-3975 FAX: 505-3- 	kins NE 1 87109 Sar 15-4107	nple Log-In Che	Pag ck List
Client Name: ENSOLUM	Work Order	Number: 2103D37		RcptNo: 1	
Received By: Juan Roja	as 3/30/2021 8:0	0:00 AM	Hans g		
Completed By: Sean Livi	ngston 3/30/2021 8:1	6:31 AM	Guanang S-L	1	
Reviewed By: ENM	313012)~U.	Jam	
<u>Chain of Custody</u>					
1. Is Chain of Custody comp	lete?	Yes 🔽	No 🗌	Not Present	
2. How was the sample deliv	ered?	Courier			
Log In		_	_	_	
3. Was an attempt made to c	cool the samples?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received	at a temperature of >0° C to 6.0°	C Yes 🗹	No 🗌		
5. Sample(s) in proper contai	iner(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for	or indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA	and ONG) properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to	bottles?	Yes	No 🗹	NA 🗌	
9. Received at least 1 vial with	h headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containe	ers received broken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bot		Yes 🗹	No 🗌	bottles checked for pH:	
(Note discrepancies on cha 12. Are matrices correctly ident		Yes 🗸	No 🗌	Adjusted?	inless noted)
13. Is it clear what analyses we		Yes 🗸			
14. Were all holding times able (If no, notify customer for a	to be met?	Yes 🗹	No 🗌	Checked by: JR	3 30 1
Special Handling (if app					
15. Was client notified of all di		Yes	No 🗌	NA 🔽	
Person Notified:		Date:			
By Whom:		Via: 🗌 eMail 🗌	Phone 🗌 Fax	In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C	Condition Seal Intact Seal	No Seal Date	Signed By		
1 0.8	Good		orgined by		

Page 1 of 1

Re	eceiv	ed by	OC	D: 8/.	31/2	021	12::	38:19	PI	M																1	Page 82	af 8 3
		ANALYSTS I ABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	10	Anal		\$ ' * C	<u>у</u> Ч	r 827 40 _{2,}	0 0 1 (0 3)	· 83 · Meh (AC) -ime	EDB (Md PAHs b) RCRA 8 CI, F, Br 8250 (V 8250 (Se 70tal Co Total Co)×	×	x	J.	X		X	X	X	X			for Tom Long	and in and	edited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
		ר	100	11 Ha	I. 505		-	s'80	ЪС	anna luite			99 1808								-	1			_	0	Co A	ny sub-
				490	Te		(C) MR	0) 2 2 2 2)DS	r08:H9T	X	+	-	X	X	\mathbf{x}	٧	X	X	X			Remarks:		oility. A
							()	1208)) S,8	TME	/ 38	ТM	X X X	Ļ	¥))	14	4	+	X	7	$\boldsymbol{\gamma}$	X			Rem	0.	s possit
Same Day	11	3-30-21		(IEOC) V				(S	- Lendon Danif		1.8-020.4 (°C)	HEAL No.		200	003	100	00 c	000	£00	00%	009	010			3/39/2, 1431	W 3/3/1/21 Kr U	es. This serves as notice of this
	d Time:	d 💓 Rush	ie:	-7 600			ager:		JUMMIC	"DAyont.		D(including CF):	Preservative Type	100	les !!	101	2001	Cool	1001	1001	0001	0007	Cach	2		t label	Via: Cover	accredited laboratorie
	Turn-Around Time:	□ Standard	Project Name:	CUU	Project #:		Project Manager:	1	ς	Sampler: 2	# of Coolers:	Cooler Temp(including CF):	Container Type and #	1402	-								~			Received by:	Received by:	contracted to other
	Chain-of-Custody Record	Curr	<i>(</i> 2)	S Rio Grande	87410				Level 4 (Full Validation)	□ Az Compliance			Sample Name	HA-1 Q 4	HA-1 @ 8	44.364	4A-207	HA-3 @ 4	HA-3 @ 8	HA-4@4	4A-4 8 8	HA-Sey	HA-Seg			hed by	Relinquished by: Christian / A Callan	Hall E
	D-of-C	10501		s: loch	A					□ Az Cor			Matrix	S	S	2	5	Ч	5	٦	7	9	\sim			Relinquished-by;	Relinquished by:	y, samples su
	Chain	1		Mailing Address:	1:05	#:	email or Fax#:	QA/QC Package:	ndard	Accreditation:			Time	905	900	930	1000	iors	1030	1040	1050	1100	0/11			Time:	Time:	If necessary
D		Client:	T	Mailing	2/2	Phone #:	email c	QA/QC	□ Standard	Accreditation			Date	399	399	399	3/39	29	3/39	3/29	5139	339	309			Date: 3/a/24	Date: 339/21	

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	45555
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	3/2/2022

Page 83 of 83

Action 45555