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

Unit Letter

N

Section

30

Township

26N

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	ogriD: <b>24160</b>	02			
Contact Name: Thomas Long	Contact Telepho	Contact Telephone: <b>505-599-2286</b>			
Contact email:tjlong@eprod.com	Incident # (assig	Incident # (assigned by OCD): nAPP2133653220			
Contact mailing address: 614 Reilly Ave, Farm 87401	nington, NM				
I	Location of Release Sour	ce			
Latitude <b>36.450981</b>	_Longitude <u>-107.404642</u>	(NAD 83 in decimal degrees to 5 decimal places)			
Site Name Jicarilla Gas Com B #1 CH	Site Type <b>Natu</b>	ral Gas Gathering Pipeline			
Date Release Discovered: 11/30/2021	Serial Number (	Serial Number (if applicable): N/A			

Surface Owner: State Federal Tribal Private (Name: Jicarilla Apache Tribe

Range

**5W** 

#### **Nature and Volume of Release**

County

Rio Arriba

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				
	Volume Released (bbls): <b>15-20 BBLS</b>	Volume Recovered (bbls): None				
Natural Gas	Volume Released (Mcf): <b>2.2 MCF</b>	Volume Recovered (Mcf): None				
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)				

Cause of Release: On November 30, 2021, Enterprise had a release of natural gas and natural gas liquids from the Jicarilla Gas Com B #1 CH pipeline. The pipeline was isolated, depressurized, locked and tagged out. No washes or residents were affected. No fire occurred. No emergency services responded. Release liquids ran down a hill and affected an area approximately 300 feet long by one foot wide. A total of 647 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. On January 21, 2022, Jicarilla Apache Nation Environmental Protection Office approved the variance request and alternative closure method proposed by Enterprise for the contaminant concentrations exceeding NMOCD remediation standards. Between January 26, and January 31, 2022, approximately 900 gallons of potassium permanganate were applied to the pipeline and flow path excavations which were subsequently backfilled. A third party closure report is included with this "Final." C-141.

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Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC							
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
□ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)							
Description of remediation activities							
I hereby certify that the information given above is true and complete to the best of and regulations all operators are required to report and/or file certain release notification may endanger public health or the environment. The acceptance of a C-141 report is should their operations have failed to adequately investigate and remediate contaming human health or the environment. In addition, OCD acceptance of a C-141 report dompliance with any other federal, state, or local laws and/or regulations. The responsatore, reclaim, and re-vegetate the impacted surface area to the conditions that exist accordance with 19.15.29.13 NMAC including notification to the OCD when reclaim	tions and perform corrective actions for releases which by the OCD does not relieve the operator of liability nation that pose a threat to groundwater, surface water, be not relieve the operator of responsibility for onsible party acknowledges they must substantially sted prior to the release or their final land use in						
Printed Name: Thomas Long  Title: Senior Env	ironmental Scientist						
Signature: Date	e: <u>05-09-2022</u>						
email: tjlong@eprod.com Telephone: (505) 59	99-2286						
OCD Only							
Received by: Date: _							
Closure approval by the OCD does not relieve the responsible party of liability should remediate contamination that poses a threat to groundwater, surface water, human heaparty of compliance with any other federal, state, or local laws and/or regulations.							
Closure Approved by: Nelson Velez Date:  Printed Name: Nelson Velez Title:	05/20/2022						
Printed Name: Nelson Velez Title:	Environmental Specialist – Adv						



#### **CLOSURE REPORT**

#### Property:

Jicarilla Gas Com B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W Rio Arriba County, New Mexico

#### NM EMNRD OCD Incident ID No. NAPP2133653220

April 21, 2022 Ensolum Project No. 05A1226172

Prepared for:

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

Prepared by:

Ranee Deechilly Project Manager Kyle Summers Senior Project Manager



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#### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)			
Site Name:	Jicarilla Gas Com B #1 CH (11/30/21) (Site)			
NM EMNRD OCD Incident ID No.	NAPP2133653220			
Location:	36.450981° North, 107.404642° West Unit Letter N, Section 30, Township 26 North, Range 5 West Rio Arriba County, New Mexico			
Property:	Jicarilla Apache Nation			
Regulatory:	Jicarilla Apache Nation Environmental Protection Office (JAN-EPO)			

On November 30, 2021, a release of natural gas and associated liquids from the Jicarilla Gas Com B #1 CH pipeline was discovered at the Site. The release was characterized by discoloration of the ground surface and a flow path that traveled southwest from the release point. Enterprise verified a leak and subsequently isolated and locked the pipeline out of service. Before remediation activities were initiated Enterprise conducted an on-Site meeting to discuss the scope of work on December 1, 2021, with representatives from the JAN-EPO, Bureau of Indian Affairs (BIA), Jicarilla Apache Oil and Gas Administration, and the Jicarilla Apache Tribal Historic Preservation Office (THPO). Due to the concern of encountering cultural artifacts, an archeological survey was conducted at the Site and in the surrounding area. Following clearance from THPO and the approval to proceed with remediation from JAN-EPO and the BIA, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact on December 9, 2021.

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

#### 1.2 Project Objective

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

#### 2.0 CLOSURE CRITERIA

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

 The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in



the database (which is searchable and includes an interactive map). No PODs with recorded depth to water were identified within the same Public Land Survey System (PLSS) section as the Site or in the adjacent PLSS sections. The OSE POD Locations Online Mapping Tool identifies one POD (SJ-01098) southeast of the Site (approximately 0.5 miles) (**Figure A, Appendix B**). There is no recorded depth to water for this POD. The only information available for this POD is an approved application for permit to appropriate the underground waters.

- No cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database within the same PLSS section as the site. One CPW was identified in an adjacent PLSS section. The approximate location of the CPW is depicted on Figure B (Appendix B). The CPW is associated with the Johnston A Com G #18M and Carter Mesa Com #1 oil/gas production wells and is approximately 1.2 miles southwest of the Site and approximately 55 feet higher in elevation than the Site. The record for this CPW indicates a reported depth to water of 100 feet below grade surface (bgs).
- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The Site is located within a small natural drainage (Figure C, Appendix B).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (Figure D, Appendix B).
- No springs, or private domestic fresh water wells used by less than five households for domestic
  or stock watering purposes were identified within 500 feet of the Site (Figure E, Appendix B).
- No fresh water wells or springs were identified within 1,000 feet of the Site (Figure E, Appendix B).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (Figure G, Appendix B).
- The Site is not located within an unstable area.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information, the applicable closure criteria for soils remaining in place at the Site include:



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

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

#### 3.0 SOIL REMEDIATION ACTIVITIES

On December 9, 2021, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sierra Oilfield Services Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

During the remediation activities, sandstone was encountered. Due to safety concerns related to the extent and depth of the excavation and the hillside location of the flow path, Site activities were suspended after the January 24, 2022 sampling event. Enterprise corresponded with the JAN-EPO and reached an agreement on a variance request and alternative closure method that included the supplemental application of potassium permanganate to the excavation prior to backfilling. Potassium permanganate was selected for its ability to persistently degrade (through chemical oxidation via the permanganate anion) petroleum hydrocarbon COCs. On January 21, 2022, JAN-EPO approved the variance request and alternative closure method proposed by Enterprise. Between January 26, and January 31, 2022, approximately 900 gallons of potassium permanganate were applied to the pipeline and flow path excavations by Envirotech prior to backfilling activities.

The final excavation measured approximately 30 feet long and 21 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 20 feet bgs. The final flow path traveled approximately 220 feet to the east, with a maximum width of and 4 feet. The maximum depth of the flow path excavation measured approximately one feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sandy clay and weathered shale, underlain by sandstone.

Approximately 647 cubic yards (yd³) of petroleum hydrocarbon affected soils and 20 barrels (bbls) of hydroexcavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The flow path excavation was backfilled with dead vegetation and rocks to prevent future erosion to help sustain the stability of the treatment area. The pipeline excavation was backfilled with JAN-EPO approved native fill and then contoured to the surrounding grade. Erosion control berms were constructed to minimize gouging.

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

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

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



#### 4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of 22 composite soil samples (S-1 through S-22,) from the excavation and five flow path composite soil samples (FP-1 through FP-5) for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools and an excavator, operated by Sierra, were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

#### First Sampling Event

On December 16, 2021, the first sampling event was performed at the Site. The JAN-EPO was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (0'-3') and S-2 (0'-3') were collected from the pipe chase end walls.

#### **Second Sampling Event**

On December 22, 2021, a second sampling event was performed. The JAN-EPO was present during sampling activities. Composite soil sample S-3 (10'), was collected from the floor of the excavation. Composite soil samples S-4 (0'-10'), S-5 (0'-7'), and S-6 (0'-10'), were collected from the walls of the excavation. Subsequent soil analytical results identified COC concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil samples S-5, S-7, and S-12. In response to the exceedances the excavation was deepened and extended. Soil associated with samples S-3, S-4, S-5, and S-6, were removed by excavation, and transported to the landfarm. The soils associated with composite soil samples S-1 and S-2, although exhibiting no exceedances, were removed to facilitate access.

#### **Third Sampling Event**

On January 19, 2021, a third sampling event was performed. The JAN-EPO was present during sampling activities. Composite soil samples S-7 (20'), and S-8 (18'), were collected from the floor of the excavation. Composite soil samples S-9 (0'-9'), S-10 (9'-18'), S-11 (12'-18'), S-12 (6'-12'), S-13 (0'-6'), S-14 (12'-20'), S-15 (6'-12'), S-16 (0'-6'), S-17 (8'-16'), and S-18 (0'-8'), were collected from the walls of the excavation. Subsequent soil analytical results identified COC concentrations that exceeded the NM EMNRD OCD closure criteria for soil samples S-7, S-8, S-10, S-11, S-14, S-15, and S-16.

On January 21, 2022, JAN-EPO approved the variance request and alternative closure method proposed by Enterprise that included the application of potassium permanganate to the excavation prior to backfill.

#### Fourth Sampling Event

On January 24, 2021, Enterprise continued remediation of the flow path and a fourth sampling event was performed. The JAN-EPO was present during sampling activities. Composite soil samples S-19 (18'), and S-20 (18'), were collected from the floor of the excavation. Composite soil samples S-21 (0'-12'), and S-22 (0'-12'), were collected from the walls of the excavation. Composite soil samples FP-1 (1'), FP-2 (1'), FP-3 (0.5), FP-4 (0.5), and FP-4 (0.5), were collected from the floor of the excavated flow path. Subsequent soil analytical results identified COC concentrations that exceeded the NM EMNRD OCD closure criteria for soil samples FP-1, FP-2, and FP-3.

All soil samples were collected and placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, NM, under proper chain-of-custody procedures.

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#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

#### 6.0 SOIL DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results associated with the composite soil samples (S-7 through S-22 and FP-1 through FP-5) to the NM EMNRD OCD Tier I closure criteria. In the event that the laboratory did not quantify a result for BTEX or chloride, Ensolum compared the laboratory supplied practical quantitation limits (PQLs) / reporting limits (RLs) to the NM EMNRD OCD closure criteria. Due to the high PQLs/RLs associated with the TPH MRO range when using EPA SW-846 Method #8015, Ensolum only compared the quantified results to the NM EMNRD OCD closure criteria. The soils associated with composite soil samples S-1 through S-6 were removed from the Site, and therefore, are not included in the following discussion.

- The laboratory analytical result for composite soil sample S-8 indicates a benzene concentration of 14 mg/kg, which exceeds the NM EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for composite soil samples S-7, S-19, and FP-1 indicate benzene concentrations of 5.6 mg/kg, 0.39 mg/kg, and 0.33 mg/kg, respectively, which are below the NM EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-7, S-8, S-19, and FP-1 indicate total BTEX concentrations of 280 mg/kg, 630 mg/kg, 60 mg/kg, and 170 mg/kg, respectively, which exceed the NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate total BTEX concentrations ranging from below the laboratory PQLs/RLs to 26 mg/kg (FP-3), which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples S-7, S-8, S-10, S-11, S-16, S-19, S-20, FP-1, FP-1, and FP-3 indicate combined TPH GRO/DRO/MRO concentrations ranging from 130 mg/kg (S-16) to 7,400 mg/kg (S-8), which exceed the New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO concentrations ranging from below the laboratory PQLs/RLs to 44 mg/kg (S-14), which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical result for composite soil sample S-14 indicates a chloride concentration of 4,100 mg/kg, which exceeds the NM EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate chloride concentrations ranging from below the laboratory PQLs/RLs to 340 mg/kg (FP-2), which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**).



#### 7.0 RECLAMATION AND REVEGETATION

Following the application of potassium permanganate, the pipeline excavation was backfilled with JAN-EPO approved native fill and then contoured to the surrounding grade. Boulders and rocks were placed along the slope of the former pipeline excavation footprint to help reduce and prevent erosion. With approval from JAN-EPO, the flow path excavation was backfilled with dead vegetation, rocks, and boulders as methods of erosion control. Enterprise will re-seed the Site with an approved seeding mixture.

#### 8.0 FINDINGS AND RECOMMENDATION

- Twenty-seven composite soil samples were collected from the Site. Based on laboratory analytical results, benzene, BTEX, chloride, and combined TPH GRO/DRO/MRO exceedances were identified in the Site soils.
- JAN-EPO approved the variance request and alternative closure method proposed by Enterprise that included the application of potassium permanganate to the excavation prior to backfill.
- Approximately 647 yd<sup>3</sup> of petroleum hydrocarbon affected soils and 20 bbls of hydro-excavation soil
  cuttings and water were transported to the Envirotech landfarm for disposal/remediation.

The JAN-EPO approved the variance and closure plan as proposed by Enterprise and subsequently performed at the Site.

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

#### 9.1 Standard of Care

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

#### 9.2 Limitations

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

#### 9.3 Reliance

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

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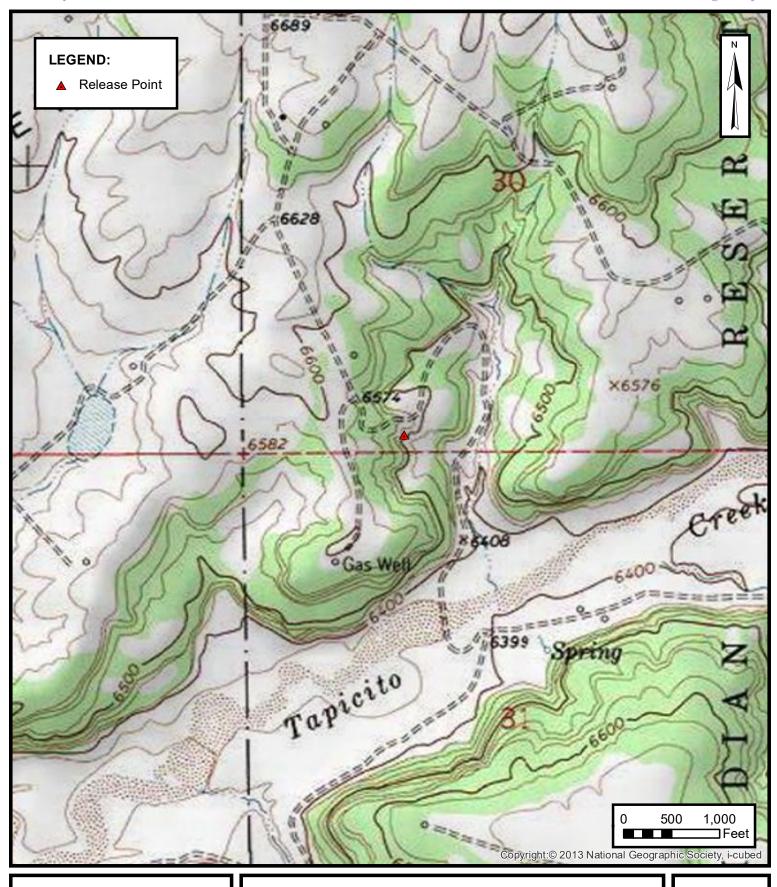


client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



**APPENDIX A** 

Figures





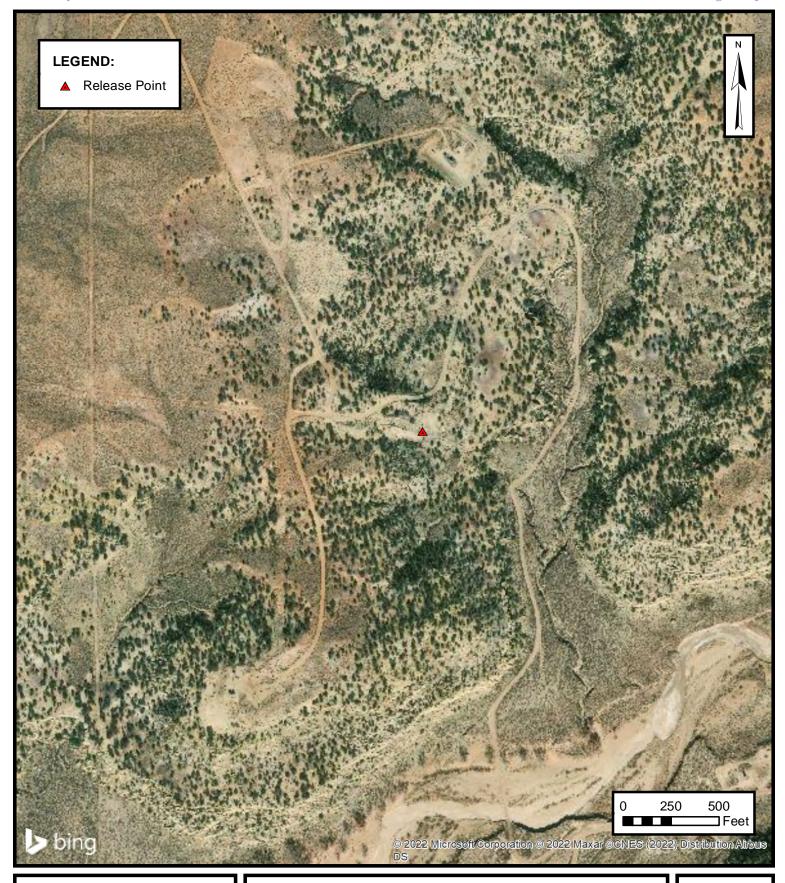
#### **TOPOGRAPHIC MAP**

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 

1





#### SITE VICINITY MAP

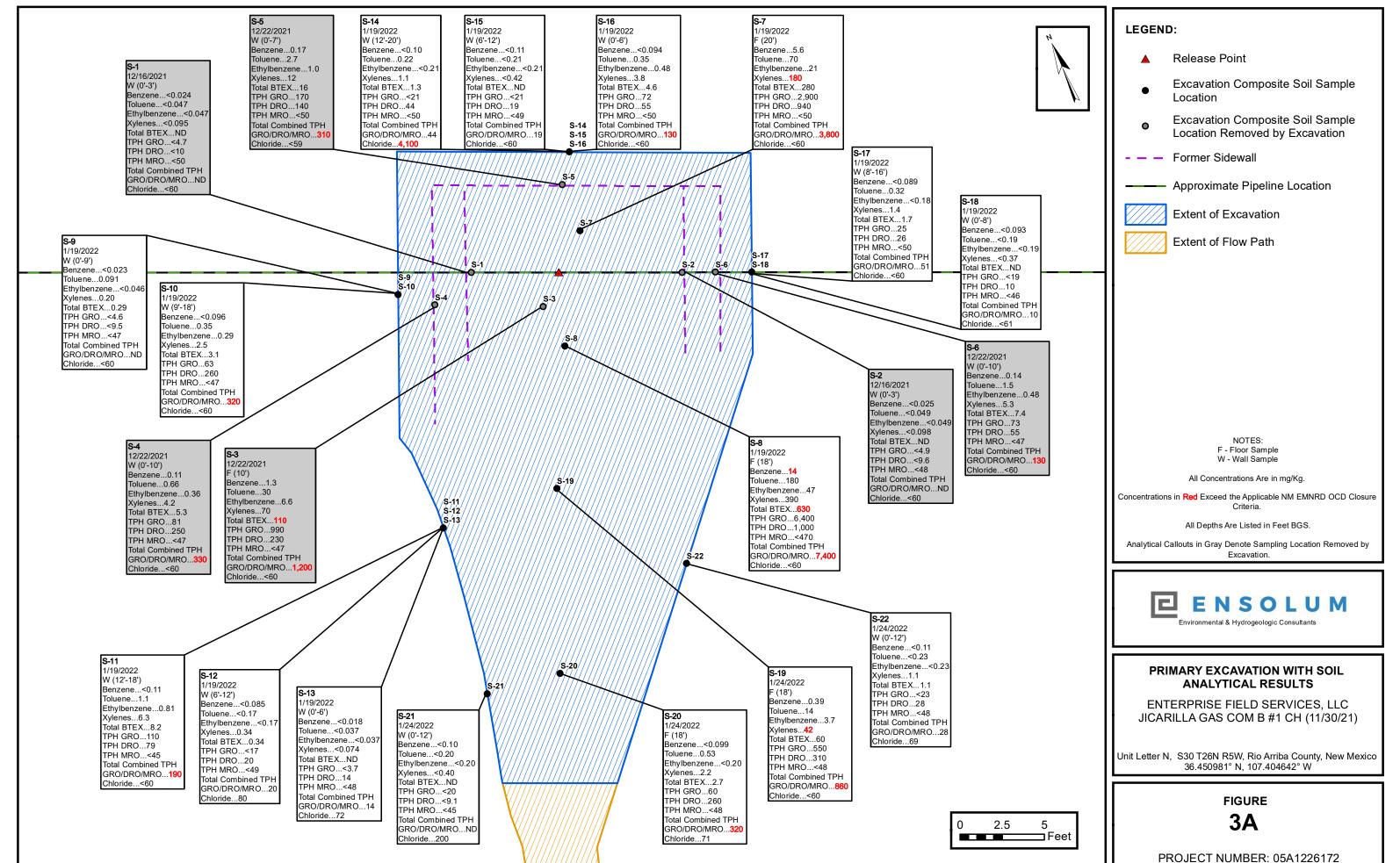
ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

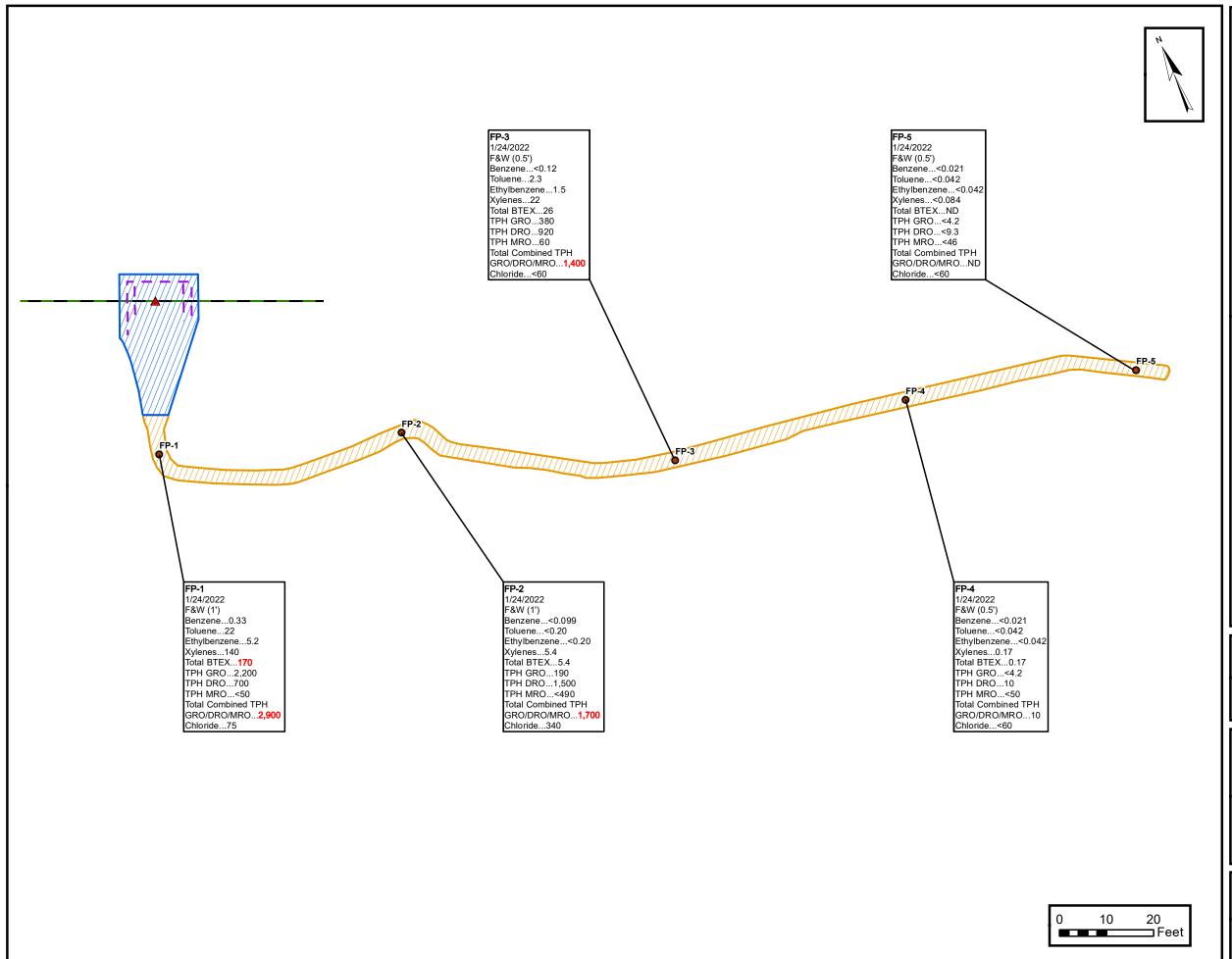
**FIGURE** 

2

Received by OCD: 5/9/2022 7:17:40 AM



Received by OCD: 5/9/2022 7:17:40 AM



#### LEGEND:

- ▲ Release Point
- Flow Path Composite Soil Sample
- Former Sidewall
  - Approximate Pipeline Location



Extent of Excavation



Extent of Flow Path

NOTES: F - Floor Sample W - Wall Sample

All Concentrations are in mg/Kg.

Concentrations in Red Exceed the Applicable NM EMNRD OCD Closure
Criteria

All Depths Are Listed in Feet BGS.



## FLOW PATH EXCAVATION WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21)

Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

**FIGURE** 

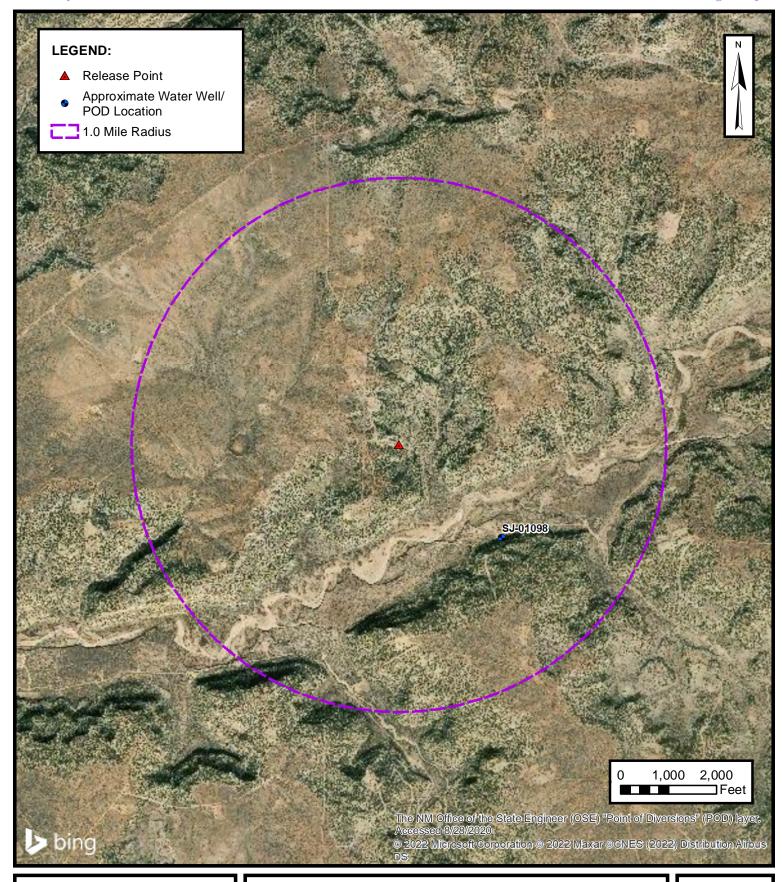
3B

PROJECT NUMBER: 05A1226172



**APPENDIX B** 

Siting Figures and Documentation





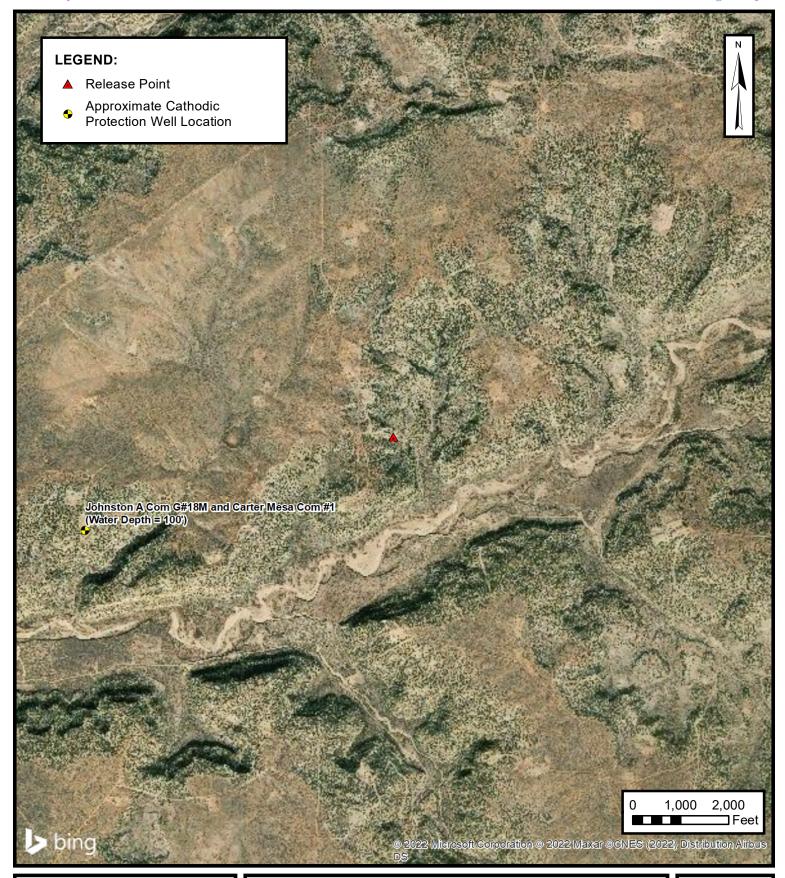
#### 1.0 MILE RADIUS WATER WELL/POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 







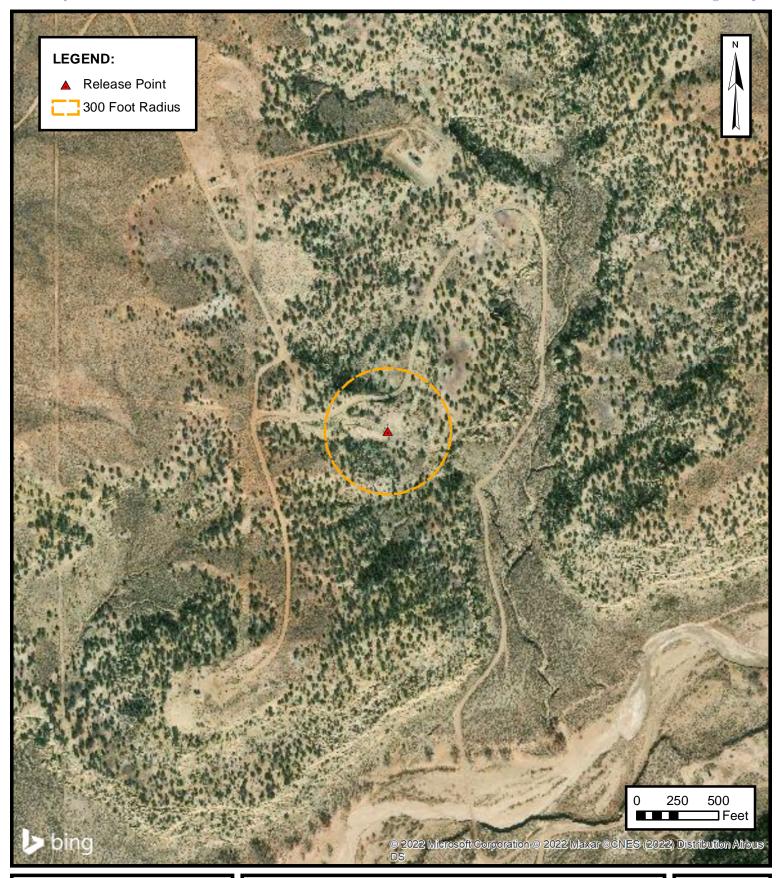
## CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 

B





## 300 FOOT RADIUS WATERCOURSE AND DRAINAGE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 

C





## 300 FOOT RADIUS OCCUPIED STRUCTURE IDENTIFICATION

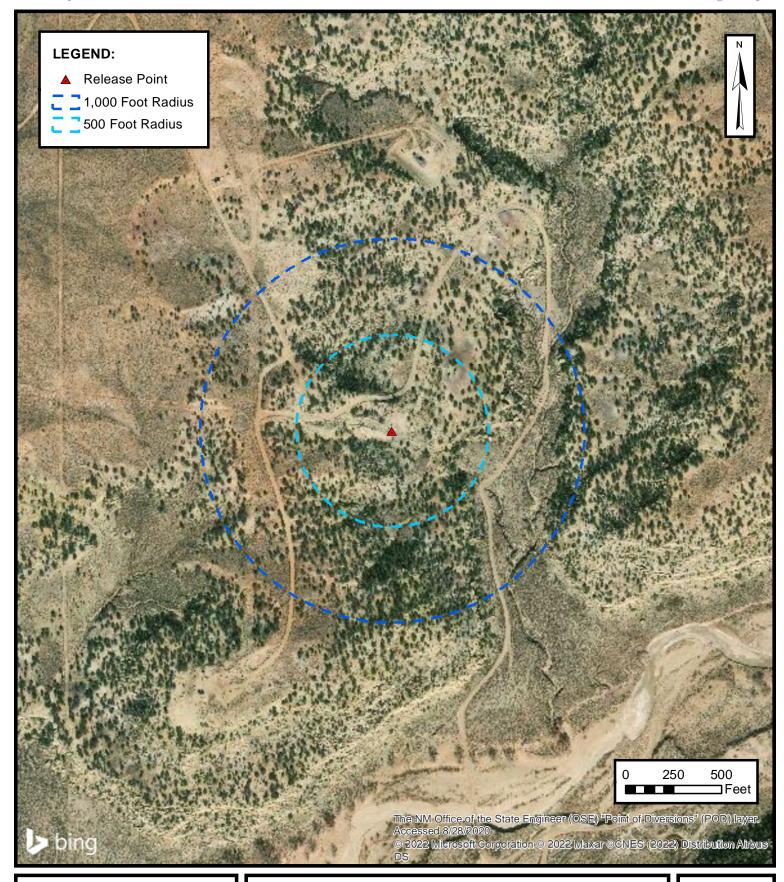
ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico

Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexic 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 

D





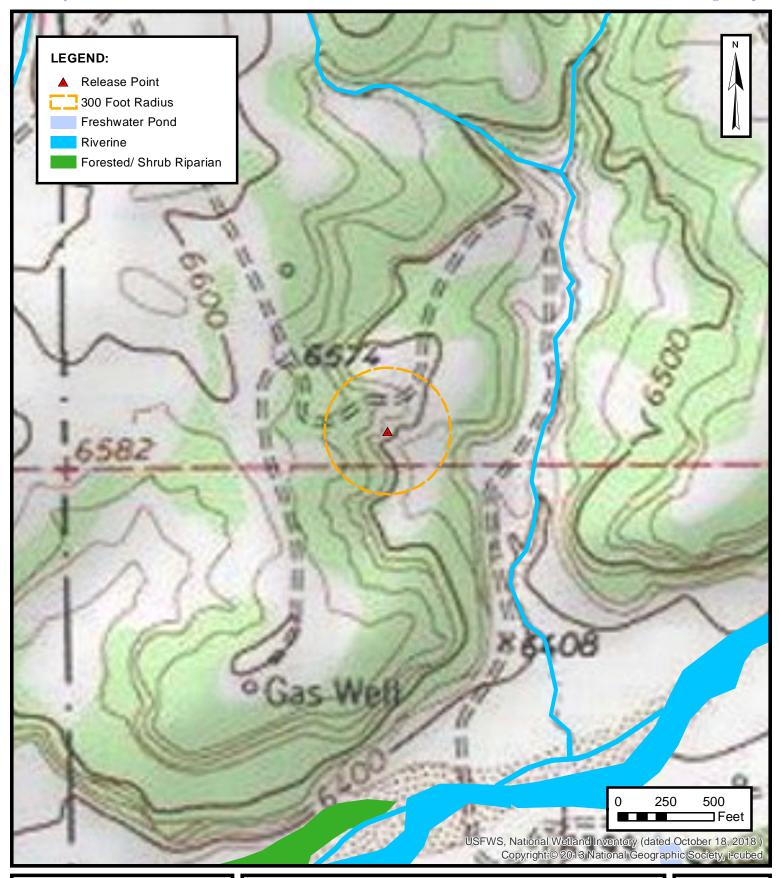
#### WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 

E





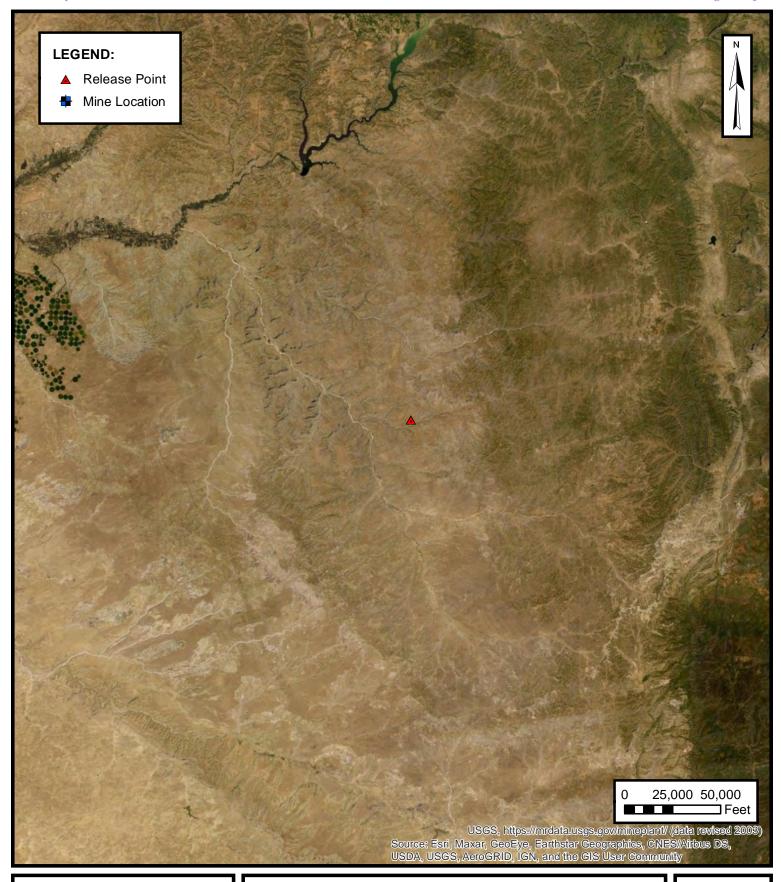
#### **WETLANDS**

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 

F





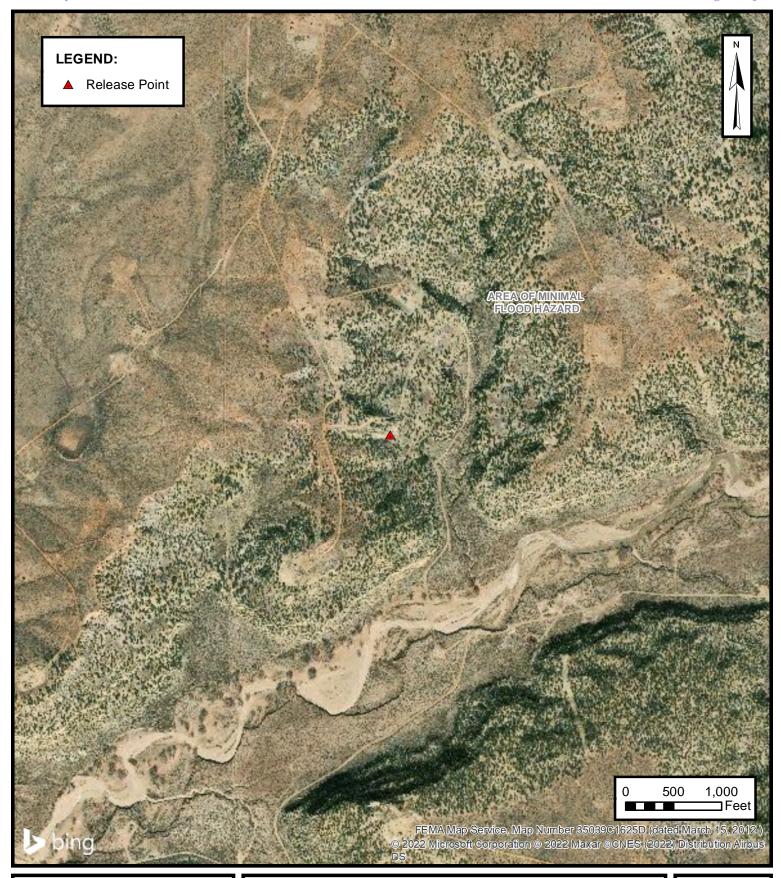
#### MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 

G





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

ENTERPRISE FIELD SERVICES, LLC JICARILLA GAS COM B #1 CH (11/30/21) Unit Letter N, S30 T26N R5W, Rio Arriba County, New Mexico 36.450981° N, 107.404642° W

PROJECT NUMBER: 05A1226172

**FIGURE** 

Н



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

No records found.

**PLSS Search:** 

**Section(s):** 30, 19, 20, 29, **Township:** 26N **Range:** 05W

32, 31

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.



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

No records found.

**PLSS Search:** 

Section(s): 25, 24, 36 Township: 26N Range: 06W

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

ecetyed by OCD: 5/9/2022 7:17:40 AM - #18H = 30-039-25559 Page 29
TATE: 6/7/96 # 1 = 30-039-20100
DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO
Operator Meridian Oil INC. Location: Unit NW Sec. 36 Twp26 Rng 06
Name of Well/Wells or Pipeline Serviced
JOHNSTON A COM G # 18M AND CATTER MESA COM #1
ElevationCompletion Date 6/7/96 Total Depth 438 Land Type F
Casing Strings, Sizes, Types & Depths 6/5 Set 60' of 8" Avc CAsing.
NO GAS, WATER, OF BOULDERS Were ENCOUNTERED DURING CASING.
If Casing Strings are cemented, show amounts & types used CemenTed  WITH 15 SACKS.
If Cement or Bentonite Plugs have been placed, show depths & amounts used None
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT FIESH WATER AT 100.
Depths gas encountered: None
Ground bed depth with type & amount of coke breeze used: 438 Depth.  Used 106 SACKS of Asbury 218R (5300#)
Depths anodes placed: 385,280,248,240,232,224,216,208,500,192,184,176,168,160,+162
Depths vent pipes placed: Sulface To 438.

Vent pipe perforations: Bottom 300.

ECEINE

Remarks:

OIL CON. DIN DIN. 3

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

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

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**APPENDIX C** 

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138 Revised 08/01/11

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

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR APPROVAL TO ACCEPT S	SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	PayKey: RB21200 PM: Chase Truby AFE: N55724
2. Originating Site: Jicarilla Gas Com B#1 CH	
3. Location of Material (Street Address, City, State or ULSTR): UL N Section 30 T26N R5W; 36.450981, -107.404642	Dec 2021 - JAn 2022
4. Source and Description of Waste: Source: Remediation activities associated with a natural gas pipeline leak. Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release. Estimated Volume _50 (yd)/ bbls Known Volume (to be entered by the operator at the end	7
5. GENERATOR CERTIFICATION STATEMENT OF WAS	STE STATUS
I, Thomas Long , representative or authorized agent for Enterprise Products Operating Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US En regulatory determination, the above described waste is: (Check the appropriate classification)	
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production exempt waste.  **Operator Use Only: Waste Acceptance Frequency   Monthly	on operations and are not mixed with non- Weekly Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardo subpart D, as amended. The following documentation is attached to demonstrate the above the appropriate items)	ous waste as defined in 40 CFR, part 261.
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐	Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEM	ENT FOR LANDFARMS
I, Thomas Long  12-9-2021, representative for Enterprise Products Operating author  Generator Signature the required testing/sign the Generator Waste Testing Certification.	orizes Envirotech, Inc. to complete
I,, representative for	ection 15 of 19.15.36 NMAC. The results to the requirements of Section 15 of
5. Transporter: Riley Sierra Oil Field Services and Subcontractors L+L, Ba; ley's	Rosenbaum, CF4M
OCD Permitted Surface Waste Management Facility  Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NM Address of Facility: Hilltop, NM Method of Treatment and/or Disposal:	andfill  Other
Waste Acceptance Status:	
PRINT NAME: Greg Crubbree TITLE: Enviro Mana SIGNATURE: TELEPHONE NO.:	Must Be Maintained As Permanent Record)  Ague DATE: 12/9/21  2-0615



APPENDIX D

Photographic Documentation

#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Jicarilla Gas Com B #1 CH (11/30/21) Ensolum Project No. 05A1226172



#### Photograph 1

Photograph Description: View of in process excavation activities.



#### Photograph 2

Photograph Description: View of in process excavation activities.



#### Photograph 3

Photograph Description: View of the final excavation.



Page 1 of 4

#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Jicarilla Gas Com B #1 CH (11/30/21) Ensolum Project No. 05A1226172



#### Photograph 4

Photograph Description: View of the upper section of the final flow path excavation.



#### Photograph 5

Photograph Description: View of the final flow path excavation. Photo depicts the end (lower section) of the flow path.



#### Photograph 6

Photograph Description: View of the excavation after potassium permanganate application.



#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Jicarilla Gas Com B #1 CH (11/30/21) Ensolum Project No. 05A1226172



#### Photograph 7

Photograph Description: View of the flow path excavation after potassium permanganate application.



#### Photograph 8

Photograph Description: View of the flow path excavation after potassium permanganate application.



#### Photograph 9

Photograph Description: View of the excavation after initial restoration.



### **SITE PHOTOGRAPHS**

Closure Report Enterprise Field Services, LLC Jicarilla Gas Com B #1 CH (11/30/21) Ensolum Project No. 05A1226172



### Photograph 10

Photograph Description: View of a portion of the flow path excavation after initial restoration.





APPENDIX E

Regulatory Correspondence

From: <u>Long, Thomas</u>

To: <u>Kyle Summers</u>; <u>Chad D"Aponti</u>

Subject: FW: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981, -107.404642

Date: Wednesday, January 26, 2022 7:54:04 AM

Attachments: <u>image001.jpg</u>

FYI

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



From: Long, Thomas

Sent: Wednesday, January 26, 2022 7:14 AM

To: Truby, Chase <CCTruby@eprod.com>; Roberts, Brian <bwroberts@eprod.com>

**Cc:** Marquis, James <JMarquis@eprod.com>

Subject: FW: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981,

-107.404642

All,

See the Jicarilla approval below.

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



**From:** Yahoo Warning <<u>kcmanwell@yahoo.com</u>>

**Sent:** Tuesday, January 25, 2022 9:56 PM **To:** Long, Thomas <<u>tilong@eprod.com</u>>

**Subject:** Re: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981, -107.404642

### [Use caution with links/attachments]

Tom Long,

After review of laboratory results for Jicarilla Gas Com B #1 CH, as previously mentioned the application of potassium Permanganate will be applied on the excavated location, with continued applications along the existing flow path. During all sampling procedures we have encountered bedrock, due to JANEPO stipulations approval has been granted for application of potassium Permanganate throughout entire contamination sites. I plan to be there during application. Thank You for your continued response during this process, any questions or Comments please contact Myself @ 505-330-8031.

Thank You, K.C. Manwell

On Tuesday, January 25, 2022, 04:53:27 PM MST, Long, Thomas < tilong@eprod.com > wrote:

Keith,

Please find the attached site sketch and lab report for the Jicarilla Gas Com B #1 CH excavation and flow path. Samples S-19 and S-20 in the excavation exceed the 100 ppm TPH standard. Flow path samples FP-1 through FP-3 exceed the 100 ppm TPH standard as well. I believe the flow path samples are on bedrock sandstone. We are scheduled to apply the potassium permanganate solution to the excavation tomorrow. Shall we also apply it to the areas of the flow path that have exceedances as well? Please let me know your thoughts on how you want to proceed. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

**Enterprise Products Company** 

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tilong@eprod.com



From: Velez, Nelson, EMNRD < Nelson. Velez@state.nm.us >

**Sent:** Monday, January 24, 2022 12:12 PM **To:** Long, Thomas <<u>tilong@eprod.com</u>>

Subject: RE: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W;

36.450981, -107.404642

### [Use caution with links/attachments]

Thank you for the notification, Tom.

#### Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@state.nm.us

From: Long, Thomas <tilong@eprod.com>
Sent: Monday, January 24, 2022 12:08 PM
To: Yahoo Warning <kcmanwell@yahoo.com>

**Cc:** Stone, Brian < bmstone@eprod.com >; Velez, Nelson, EMNRD < Nelson.Velez@state.nm.us > **Subject:** RE: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W;

36.450981, -107.404642

Keith,

This email is a notification that Enterprise will be applying the potassium permanganate solution to the excavation at the Jicarilla Gas Com B #1 CH tomorrow, January 25, 2020 at 0930. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

**Enterprise Products Company** 

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tilong@eprod.com



From: Yahoo Warning < kcmanwell@yahoo.com>

**Sent:** Friday, January 21, 2022 9:15 AM **To:** Long, Thomas <<u>tilong@eprod.com</u>>

Subject: Re: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W;

36.450981, -107.404642

[Use caution with links/attachments]

Thomas Long,

After review of laboratory results for Jicarilla Gas Com B #1, the results are above Jicarilla Standards. As a result of stipulations under JANEPO, approval is granted for Conditional Closure. Due to conditions encountered as solid bedrock and potential for a landslide, JANEPO has agreed with proposed plan for application of Potassium Permanganate and backfill of existing excavation. As agreed with Enterprise and JANEPO, a berm will be constructed on existing road to prevent erosion to the excavated location. Causing erosion of backfill, contamination and Potassium Permanganate to possibly migrate. Any questions or Comments, contact Myself at 505-330-8031.

Thank You,

K.C. Manwell

On Friday, January 21, 2022, 07:39:28 AM MST, Long, Thomas < tilong@eprod.com > wrote:

Keith,

Please find the attached site sketch and lab report for the Jicarilla Gas Com B #1 CH excavation. The following samples exceed the NMOCD remediation standard:

S-7 with 276.6 ppm BTEX and 3,840 ppm TPH – Depth at 18 feet bgs; encountered hard sandstone

S-8 with 14 ppm Benzene, 689 ppm BTEX and 6,800 ppm TPH - Depth at 18 feet bgs; encountered hard sandstone; Report has an E Flag, waiting on rerun.

S-10 with 323 ppm TPH – West Wall at 18 feet bgs

S-11 with 189 ppm TPH – Southwest Wall 12-18' bgs

S-14 with 4,600 ppm Chloride – Not sure on this analysis. Report has an E flag, waiting on rerun. We are also collecting a background sample.

S-16 with 127 PPM TPH at 0-6 feet bgs

As in previous discussions with you onsite and over the phone, we are at a point at which we cannot excavate deeper as that we have encountered hard sandstone. We also cannot excavate more laterally as that in may cause an unsafe situation of collapse or landslide because we are undermining the hill.

Enterprise requests to treat the entire excavation with a potassium permanganate solution and then backfill the excavation with native Jicarilla soils. Enterprise will continue remediation of the flow path of the spill by excavating the contaminant mass. Please acknowledge acceptance of this 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
logo
From: Yahoo Warning < kcmanwell@yahoo.com > Sent: Thursday, January 6, 2022 3:01 PM To: Long, Thomas < tilong@eprod.com > Subject: Re: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981, -107.404642
[Use caution with links/attachments]
Thomas Long,
Your request for a larger track hoe is granted approval by JAN-EPO, keep in mind the arch survey and cost involve with surface disturbance from BIA. Keep in touch for any amendments to the plan.
Thank You,
K.C. Manwell
On Thursday, January 6, 2022, 08:16:59 AM MST, Long, Thomas <ti>tilong@eprod.com</ti>
Kurt/Keith,

After discussion with the field crew and contractor, it was determined that a larger track hoe would be required to continue the remediation efforts by excavating. Enterprise requests permission to mobilize a larger track hoe to complete the remediation of this release. Enterprise will keep the requested track hoe on the previously disturbed areas to access the release site in order minimized any further land disturbance. Please acknowledge acceptance of this request. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

**Enterprise Products Company** 

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tilong@eprod.com



From: Sandoval, Kurt < <a href="mailto:Kurt.Sandoval@bia.gov">Kurt.Sandoval@bia.gov</a>>

Sent: Monday, January 3, 2022 8:11 AM

**To:** Long, Thomas <<u>tilong@eprod.com</u>>; Yahoo Warning <<u>kcmanwell@yahoo.com</u>>; kurt.sandoval97 <<u>kurt.sandoval97@gmail.com</u>>

- Kurt.sanuovais/ (@gmail.com

Cc: Stone, Brian < bmstone@eprod.com >; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'

< Cory. Smith@state.nm.us>

**Subject:** Re: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981, -107.404642

[Use caution with links/attachments]

Plan is acceptable.

From: Long, Thomas <tilong@eprod.com>
Sent: Tuesday, December 28, 2021 11:57 AM

To: Yahoo Warning <a href="mailto:kcmanwell@yahoo.com">kcmanwell@yahoo.com</a>; Sandoval, Kurt <a href="mailto:kcmanwell@

kurt.sandoval97 < kurt.sandoval97@gmail.com >

Cc: Stone, Brian < bmstone@eprod.com >; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'

< Cory. Smith@state.nm.us >

**Subject:** FW: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981, -107.404642

Keith/Kurt,

Please find the attached site sketch and lab report for the Jicarilla Gas Com B#1 CH excavation. The following soil sample results exceed the NMOCD Tier I remediation standard: S-3 (Base) with 108 ppm BTEX and 1,220 ppm TPH, S-4 with 331 ppm TPH, S-5 with 310 ppm TPH and S-6 with 128 ppm TPH. I think there is a good chance we can remediate the entire release in this area. I propose we continue excavating until the field screening results have decreased and then resample the entire excavation. I propose we hold off with the in-situ treatment with potassium permanganate until we give it another attempt with excavating the contaminant mass. Please acknowledge acceptance of these proposed activities. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

**Enterprise Products Company** 

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tilong@eprod.com



From: Long, Thomas

**Sent:** Tuesday, December 14, 2021 7:33 AM **To:** Yahoo Warning < <a href="mailto:kcmanwell@yahoo.com">kcmanwell@yahoo.com</a>

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

Subject: RE: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W;

36.450981, -107.404642

Keith,

This is a follow up to our phone conversation earlier. Enterprise is requesting to use a track hoe equipped with rubber tracks to continue the repairs and remediation activities that the Jicarilla Gas Com B #1 CH release site. Please acknowledge acceptance of this request.

Thomas J. Long

Senior Environmental Scientist

**Enterprise Products Company** 

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tilong@eprod.com



From: kurt.sandoval97 < <a href="mailto:kurt.sandoval97@gmail.com">kurt.sandoval97@gmail.com</a>>

Sent: Thursday, December 2, 2021 9:45 PM

**To:** Long, Thomas <<u>tilong@eprod.com</u>>; Yahoo Warning <<u>kcmanwell@yahoo.com</u>>;

janthpo@gmail.com; kurt.sandoval@bia.gov

 $\textbf{Cc:} \ Stone, Brian < \underline{bmstone@eprod.com} >; \ McDowell, \ Jack < \underline{JLMCDOWELL@eprod.com} >; \ Truby, \ Chase$ 

<CCTruby@eprod.com>; Marquis, James <<u>JMarquis@eprod.com</u>>

Subject: [EXTERNAL] RE: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981,

-107.404642

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

Plan is acceptable. When is the start date? Thank you for the opportunity to comment. Be careful and safe .

Sent via the Samsung Galaxy S10, an AT&T 5G Evolution capable smartphone

----- Original message -----

From: "Long, Thomas" < tilong@eprod.com>

Date: 12/2/21 2:33 PM (GMT-07:00)

To: Yahoo Warning <<u>kcmanwell@yahoo.com</u>>, <u>janthpo@gmail.com</u>, <u>kurt.sandoval97@gmail.com</u>, <u>kurt.sandoval@bia.gov</u>

Cc: "Stone, Brian" <<u>bmstone@eprod.com</u>>, "McDowell, Jack" <<u>JLMCDOWELL@eprod.com</u>>, "Truby, Chase" <<u>CCTruby@eprod.com</u>>, "Marquis, James" <<u>JMarquis@eprod.com</u>>

Subject: FW: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981, -107.404642

Keith/Kurt,

Please find the attached remediation plan for the Jicarilla Gas Com B#1 CH release site. Please let me know if this will suffice. If you have any questions, please call or email

Thomas J. Long

Senior Environmental Scientist

**Enterprise Products Company** 

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tilong@eprod.com

From: Long, Thomas

Sent: Wednesday, December 1, 2021 7:24 AM

To: 'Yahoo Warning' < kcmanwell@yahoo.com>

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

Subject: Jicarilla Gas Com B #1 CH - UL N Section 30 T26N R5W; 36.450981, -107.404642

Keith,

This email is a notification that Enterprise had a release of natural gas and natural gas liquids on the Jicarilla Gas Com B #1 CH pipeline yesterday, November 30, 2021 at approximately 3:00 p.m. Natural liquids flowed down a ravine/drainage. No washes were affected. The release is located at UL N Section 30 T26N R5W; 36.450981, -107.404642. I will keep you informed as to when the remediation will begin.

Thomas J. Long

Senior Environmental Scientist

**Enterprise Products Company** 

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com

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



**APPENDIX F** 

Table 1 – Soil Analytical Summary



# TABLE 1 Jicarilla Gas Com B #1 CH (11/30/21) SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type  C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup> (mg/kg)	Chloride (mg/kg)
	S-1         12.16.21         C         0 to           S-2         12.16.21         C         0 to           S-3         12.22.21         C         1           S-4         12.22.21         C         0 to           S-5         12.22.21         C         0 to           S-6         12.22.21         C         0 to			10	NE	NE	NE	50				100	600
			Composite	e Soil Sample	s Removed b	y Excavation a	nd Transport	ed to the Land	farm for Dipo	sal/Remediati	on		
S-1	12.16.21	С	0 to 3	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<10	<50	ND	<60
S-2	12.16.21	С	0 to 3	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.6	<48	ND	<60
S-3	12.22.21	С	10	1.3	30	6.6	70	110	990	230	<47	1,200	<60
S-4	12.22.21	С	0 to 10	0.11	0.66	0.36	4.2	5.3	81	250	<47	330	<60
S-5	12.22.21	С	0 to 7	0.17	2.7	1.0	12	16	170	140	<50	310	<59
S-6	12.22.21	С	0 to 10	0.14	1.5	0.48	5.3	7.4	73	55	<47	130	<60
					E	xcavation Con	nposite Soil S	Samples					
S-7	1.19.22	С	20	5.6	70	21	180	280	2,900	940	<50	3,800	<60
S-8	1.19.22	С	18	14	180	47	390	630	6,400	1,000	<470	7,400	<60
S-9	1.19.22	С	0 to 9	<0.023	0.091	<0.046	0.20	0.29	<4.6	<9.5	<47	ND	<60
S-10	1.19.22	С	9 to 18	<0.096	0.35	0.29	2.5	3.1	63	260	<47	320	<60
S-11	1.19.22	С	12 to 18	<0.11	1.1	0.81	6.3	8.2	110	79	<45	190	<60
S-12	1.19.22	С	6 to 12	<0.085	<0.17	<0.17	0.34	0.34	<17	20	<49	20	80
S-13	1.19.22	С	0 to 6	<0.018	<0.037	<0.037	<0.074	ND	<3.7	14	<48	14	72
S-14	1.19.22	С	12 to 20	<0.10	0.22	<0.21	1.1	1.3	<21	44	<50	44	4,100
S-15	1.19.22	С	6 to 12	<0.11	<0.21	<0.21	<0.42	ND	<21	19	<49	19	<60
S-16	1.19.22	С	0 to 6	<0.094	0.35	0.48	3.8	4.6	72	55	<50	130	<60
S-17	1.19.22	С	8 to 16	<0.089	0.32	<0.18	1.4	1.7	25	26	<50	51	<60
S-18	1.19.22	С	0 to 8	<0.093	<0.19	<0.19	<0.37	ND	<19	10	<46	10	<61
S-19	1.24.22	С	18	0.39	14	3.7	42	60	550	310	<48	860	<60
S-20	1.24.22	С	18	<0.099	0.53	<0.20	2.2	2.7	60	260	<48	320	71
S-21	1.24.22	С	0 to 12	<0.10	<0.20	<0.20	<0.40	ND	<20	<9.1	<45	ND	200
S-22	1.24.22	С	0 to 12	<0.11	<0.23	<0.23	1.1	1.1	<23	28	<48	28	69



# TABLE 1 Jicarilla Gas Com B #1 CH (11/30/21) SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup> (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Departmen Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50				100	600
					Composit	e Soil Samples	Collected from	om the Flow P	ath				
FP-1	1.24.22	С	1	0.33	22	5.2	140	170	2,200	700	<50	2,900	75
FP-2				<0.099	<0.20	<0.20	5.4	5.4	190	1,500	<490	1,700	340
FP-3				<0.12	2.3	1.5	22	26	380	920	60	1,400	<60
FP-4	1.24.22	С	0.5	<0.021	<0.042	<0.042	0.17	0.17	<4.2	10	<50	10	<60
FP-5	FP-5 1.24.22 C 0.5		0.5	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.3	<46	ND	<60

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

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

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

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



# APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



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

December 27, 2021

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

TEL: (903) 821-5603

FAX:

RE: Jicarilla Gas Com B1 EH OrderNo.: 2112B13

### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/17/2021 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/27/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

 Project:
 Jicarilla Gas Com B1 EH
 Collection Date: 12/16/2021 9:30:00 AM

 Lab ID:
 2112B13-001
 Matrix: SOIL
 Received Date: 12/17/2021 7:31:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/Kg	20	12/21/2021 8:50:26 AM 64644
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/20/2021 11:46:07 AM 64609
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/20/2021 11:46:07 AM 64609
Surr: DNOP	90.6	70-130	%Rec	1	12/20/2021 11:46:07 AM 64609
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/18/2021 5:06:00 PM 64595
Surr: BFB	93.4	70-130	%Rec	1	12/18/2021 5:06:00 PM 64595
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: <b>mb</b>
Benzene	ND	0.024	mg/Kg	1	12/18/2021 5:06:00 PM 64595
Toluene	ND	0.047	mg/Kg	1	12/18/2021 5:06:00 PM 64595
Ethylbenzene	ND	0.047	mg/Kg	1	12/18/2021 5:06:00 PM 64595
Xylenes, Total	ND	0.095	mg/Kg	1	12/18/2021 5:06:00 PM 64595
Surr: 4-Bromofluorobenzene	80.4	70-130	%Rec	1	12/18/2021 5:06:00 PM 64595

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

Qualifiers:

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

Page 1 of 6

Date Reported: 12/27/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 Jicarilla Gas Com B1 EH
 Collection Date: 12/16/2021 9:35:00 AM

 Lab ID:
 2112B13-002
 Matrix: SOIL
 Received Date: 12/17/2021 7:31:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>LRN</b>
Chloride	ND	60	mg/Kg	20	12/21/2021 9:27:40 AM 64644
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/20/2021 11:58:49 AM 64609
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/20/2021 11:58:49 AM 64609
Surr: DNOP	86.0	70-130	%Rec	1	12/20/2021 11:58:49 AM 64609
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/18/2021 5:25:00 PM 64595
Surr: BFB	90.3	70-130	%Rec	1	12/18/2021 5:25:00 PM 64595
EPA METHOD 8021B: VOLATILES					Analyst: <b>mb</b>
Benzene	ND	0.025	mg/Kg	1	12/18/2021 5:25:00 PM 64595
Toluene	ND	0.049	mg/Kg	1	12/18/2021 5:25:00 PM 64595
Ethylbenzene	ND	0.049	mg/Kg	1	12/18/2021 5:25:00 PM 64595
Xylenes, Total	ND	0.098	mg/Kg	1	12/18/2021 5:25:00 PM 64595
Surr: 4-Bromofluorobenzene	78.7	70-130	%Rec	1	12/18/2021 5:25:00 PM 64595

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

Qualifiers:

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

Page 2 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2112B13 27-Dec-21** 

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 EH

Sample ID: MB-64644 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 64644 RunNo: 84672

Prep Date: 12/20/2021 Analysis Date: 12/20/2021 SeqNo: 2977717 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-64644 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64644 RunNo: 84672

Prep Date: 12/20/2021 Analysis Date: 12/20/2021 SeqNo: 2977718 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.3 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 interference

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

### Hall Environmental Analysis Laboratory, Inc.

2112B13 27-Dec-21

WO#:

**Client:** ENSOLUM

**Project:** Jicarilla Gas Com B1 EH

Sample ID: MB-64609 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 64609 RunNo: 84660

Prep Date: 12/20/2021 Analysis Date: 12/20/2021 SeqNo: 2976310 Units: mg/Kg

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 8.4 10.00 84.4 70 130

Sample ID: LCS-64609 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 64609 RunNo: 84660

Prep Date: 12/20/2021 Analysis Date: 12/20/2021 SeqNo: 2976311 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 55
 10
 50.00
 0
 110
 68.9
 135

 Surr: DNOP
 4.2
 5.000
 83.9
 70
 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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 4 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2112B13** 

27-Dec-21

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 EH

Sample ID: mb-64595 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 64595 RunNo: 84644

Prep Date: 12/17/2021 Analysis Date: 12/18/2021 SeqNo: 2975896 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 960 1000 96.3 70 130

Sample ID: Ics-64595 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 64595 RunNo: 84644

1200

Prep Date: 12/17/2021 Analysis Date: 12/18/2021 SeqNo: 2975898 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 107 78.6 131

70

130

119

#### Qualifiers:

Surr: BFB

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

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2112B13 27-Dec-21** 

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 EH

Sample ID: mb-64595 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 64595 RunNo: 84644

Prep Date: 12/17/2021 Analysis Date: 12/18/2021 SeqNo: 2975944 Units: mg/Kg

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

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.88 1.000 87.5 70 130

Sample ID: Ics-64595 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 64595 RunNo: 84644

Prep Date: 12/17/2021	Analysis [	Date: 12	2/18/2021	8	SeqNo: 29	975946	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	80	120			
Toluene	0.92	0.050	1.000	0	92.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.6	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	70	130			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: ENSOLUM	Work Order Nur	mber: 2112B13		RcptNo:	1
Received By: Tracy Casarrubias	12/17/2021 7:31:0	00 AM			
Completed By: Tracy Casarrubias	12/17/2021 8:38:2	24 AM			
Reviewed By: WPG 12/17/	21				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
<u>Log In</u> 3. Was an attempt made to cool the samples?		Yes 🗸	No 🗆	NA 🗆	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🔽	No 🗌	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	y preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🔽	NA 🗌	
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes	No 🗌	NA 🗸	
10. Were any sample containers received broke	n?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	bottles checked for pH:	12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗸	No 🗌		1 (
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗆	Checked by: 3	112/17/21
Special Handling (if applicable)					
15. Was client notified of all discrepancies with t	his order?	Yes	No 🗌	NA 🔽	
Person Notified:	Date:				
By Whom:	Via:	eMail Ph	none  Fax	In Person	
Regarding:		The second secon			
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condition Se	al Intact Seal No	Seal Date S	Signed By		
1' 1.8 Good Yes					

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	12-16-61	JH.	工工							(2) 8.	%. %.			1 7	=							1	Time /255	Time 73	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

January 26, 2022

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

TEL: (903) 821-5603

**FAX** 

RE: Jicarilla Gas Com B1 CH OrderNo.: 2112D29

### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/23/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 30, 2021.

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. 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. All samples are reported as received unless otherwise indicated.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/26/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

 Project:
 Jicarilla Gas Com B1 CH
 Collection Date: 12/22/2021 11:00:00 AM

 Lab ID:
 2112D29-001
 Matrix: MEOH (SOIL)
 Received Date: 12/23/2021 7:40:00 AM

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 60 mg/Kg 12/27/2021 6:43:48 PM 64737 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 230 9.4 mg/Kg 12/27/2021 1:20:07 PM 64721 Motor Oil Range Organics (MRO) ND 12/27/2021 1:20:07 PM 64721 47 mg/Kg 1 Surr: DNOP 89.2 70-130 %Rec 12/27/2021 1:20:07 PM 64721 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 12/23/2021 8:05:22 PM 64694 Gasoline Range Organics (GRO) 990 68 mg/Kg 20 Surr: BFB 233 70-130 S %Rec 12/23/2021 8:05:22 PM 64694 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene 1.3 0.34 mg/Kg 20 12/23/2021 8:05:22 PM 64694 Toluene 30 0.68 mg/Kg 20 12/23/2021 8:05:22 PM 64694 Ethylbenzene 6.6 0.68 mg/Kg 20 12/23/2021 8:05:22 PM 64694 Xylenes, Total 70 mg/Kg 20 12/23/2021 8:05:22 PM 64694 1.4 Surr: 4-Bromofluorobenzene 112 70-130 %Rec 12/23/2021 8:05:22 PM 64694

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
- POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Date Reported: 1/26/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

**Project:** Jicarilla Gas Com B1 CH **Collection Date:** 12/22/2021 11:05:00 AM

**Lab ID:** 2112D29-002 **Matrix:** MEOH (SOIL) **Received Date:** 12/23/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	ND	60		mg/Kg	20	12/27/2021 7:20:52 PM	64737
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	250	9.3		mg/Kg	1	12/27/2021 1:30:35 PM	64721
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/27/2021 1:30:35 PM	64721
Surr: DNOP	95.9	70-130		%Rec	1	12/27/2021 1:30:35 PM	64721
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	81	20		mg/Kg	5	12/28/2021 9:18:59 AM	64736
Surr: BFB	211	70-130	S	%Rec	5	12/28/2021 9:18:59 AM	64736
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	0.11	0.099		mg/Kg	5	12/28/2021 9:18:59 AM	64736
Toluene	0.66	0.20		mg/Kg	5	12/28/2021 9:18:59 AM	64736
Ethylbenzene	0.36	0.20		mg/Kg	5	12/28/2021 9:18:59 AM	64736
Xylenes, Total	4.2	0.40		mg/Kg	5	12/28/2021 9:18:59 AM	64736
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	5	12/28/2021 9:18:59 AM	64736

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

Qualifiers:

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

Page 2 of 8

Date Reported: 1/26/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

**Project:** Jicarilla Gas Com B1 CH **Collection Date:** 12/22/2021 11:10:00 AM

**Lab ID:** 2112D29-003 **Matrix:** MEOH (SOIL) **Received Date:** 12/23/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	ND	59		mg/Kg	20	12/27/2021 7:33:12 PM	64737
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	140	10		mg/Kg	1	12/27/2021 1:41:06 PM	64721
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/27/2021 1:41:06 PM	64721
Surr: DNOP	89.0	70-130		%Rec	1	12/27/2021 1:41:06 PM	64721
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	170	21		mg/Kg	5	12/28/2021 9:42:34 AM	64736
Surr: BFB	253	70-130	S	%Rec	5	12/28/2021 9:42:34 AM	64736
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.17	0.11		mg/Kg	5	12/28/2021 9:42:34 AM	64736
Toluene	2.7	0.21		mg/Kg	5	12/28/2021 9:42:34 AM	64736
Ethylbenzene	1.0	0.21		mg/Kg	5	12/28/2021 9:42:34 AM	64736
Xylenes, Total	12	0.42		mg/Kg	5	12/28/2021 9:42:34 AM	64736
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	5	12/28/2021 9:42:34 AM	64736

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

Qualifiers:

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

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Date Reported: 1/26/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-6

**Project:** Jicarilla Gas Com B1 CH **Collection Date:** 12/22/2021 11:15:00 AM

**Lab ID:** 2112D29-004 **Matrix:** MEOH (SOIL) **Received Date:** 12/23/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LRN
Chloride	ND	60		mg/Kg	20	12/27/2021 7:45:34 PM	64737
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst:	SB
Diesel Range Organics (DRO)	55	9.4		mg/Kg	1	12/27/2021 1:51:38 PM	64721
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/27/2021 1:51:38 PM	64721
Surr: DNOP	97.0	70-130		%Rec	1	12/27/2021 1:51:38 PM	64721
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	73	18		mg/Kg	5	12/28/2021 10:06:05 AM	1 64736
Surr: BFB	165	70-130	S	%Rec	5	12/28/2021 10:06:05 AM	1 64736
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	0.14	0.091		mg/Kg	5	12/28/2021 10:06:05 AM	1 64736
Toluene	1.5	0.18		mg/Kg	5	12/28/2021 10:06:05 AM	1 64736
Ethylbenzene	0.48	0.18		mg/Kg	5	12/28/2021 10:06:05 AM	1 64736
Xylenes, Total	5.3	0.36		mg/Kg	5	12/28/2021 10:06:05 AM	1 64736
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	5	12/28/2021 10:06:05 AM	1 64736

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

Page 4 of 8

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D29 26-Jan-22** 

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 CH

Sample ID: MB-64737 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 64737 RunNo: 84790

Prep Date: 12/27/2021 Analysis Date: 12/27/2021 SeqNo: 2983088 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-64737 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64737 RunNo: 84790

Prep Date: 12/27/2021 Analysis Date: 12/27/2021 SeqNo: 2983089 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.1 90 110

### Qualifiers:

Page 5 of 8

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D29 26-Jan-22** 

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 CH

Sample ID: LCS-64721 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 64721 RunNo: 84779

Prep Date: 12/23/2021 Analysis Date: 12/27/2021 SeqNo: 2982379 Units: mg/Kg

HighLimit %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit Qual Diesel Range Organics (DRO) 45 10 50.00 0 90.1 68.9 135 Surr: DNOP 4.5 5.000 89.8 70 130

Sample ID: MB-64721 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 64721 RunNo: 84779

Prep Date: 12/23/2021 Analysis Date: 12/27/2021 SeqNo: 2982382 Units: mg/Kg

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 9.5 10.00 95.2 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 8

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2112D29 26-Jan-22

**ENSOLUM Client:** 

Jicarilla Gas Com B1 CH **Project:** 

Sample ID: Ics-64694 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 64694 RunNo: 84776 Prep Date: 12/22/2021 Analysis Date: 12/23/2021 SeqNo: 2981531 Units: mq/Kq PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 29 5.0 25.00 0 115 78.6 131

Surr: BFB 1200 1000 124 70 130

Sample ID: mb-64694 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 64694 RunNo: 84776

Prep Date: 12/22/2021 Analysis Date: 12/23/2021 SeqNo: 2981533 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND Surr: BFB 920 1000 92.1 70 130

Sample ID: mb-64736 TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK

Client ID: PBS Batch ID: 64736 RunNo: 84801

Prep Date: 12/27/2021 Analysis Date: 12/28/2021 SeqNo: 2983402 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 970 1000 97.4 70 130

Sample ID: Ics-64736 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 64736 RunNo: 84801

Prep Date: 12/27/2021 Analysis Date: 12/28/2021 SeqNo: 2983403 Units: mg/Kg

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 100 78.6 131 n Surr: BFB 1100 1000 109 70 130

#### Qualifiers:

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

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D29 26-Jan-22** 

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 CH

Sample ID: LCS-64694	SampT	ype: <b>LC</b>	S	Tes	tCode: El	tiles				
Client ID: LCSS	Batch	n ID: <b>646</b>	694	F	RunNo: 84	4776				
Prep Date: 12/22/2021	Analysis D	Date: 12	/23/2021	8	SeqNo: 29	981610	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: <b>mb-64694</b>	SampT	ype: ME	BLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	n ID: <b>64</b> 0	694	R	RunNo: <b>84776</b>						
Prep Date: 12/22/2021	Analysis D	ate: 12	2/23/2021	SeqNo: 2981612			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130				

Sample ID: <b>mb-64736</b>	SampT	Type: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64736			RunNo: <b>84801</b>						
Prep Date: 12/27/2021	Analysis D	Date: 12	2/28/2021	SeqNo: <b>2983430</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: LCS-64736	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 64736			RunNo: <b>84801</b>						
Prep Date: 12/27/2021	Analysis Date: 12/28/2021			SeqNo: 2983431			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	0.99	0.050	1.000	0	99.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: ENSOLUM	e: ENSOLUM Work Order Nu			RcptNo:	RcptNo: 1		
Received By: Isaiah Ortiz	ceived By: Isaiah Ortiz 12/23/2021 7:40:0		me ma Co.	m/L			
Completed By: Isaiah Ortiz				· -			
Reviewed By: KPG 123/11			•	<i>,</i> -			
Chain of Custody							
1. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present				
2. How was the sample delivered?		Courier					
Log In				_			
3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🗌			
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗌	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) properl	y preserved?	Yes 🗸	No 🗌				
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌			
9. Received at least 1 vial with headspace <1/4		Yes 🗌	No 🗆	NA 🗹			
<ol><li>Were any sample containers received broke</li></ol>	n?	Yes 🗆	No 🗹	# of preserved			
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	bottles checked for pH:	12 unless noted)		
2. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗆	Adjusted2			
3. Is it clear what analyses were requested?		Yes 🔽	No 🗆		مامماد مد		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No □	Checked by:	311 (2/73/2		
Special Handling (if applicable)			~				
15. Was client notified of all discrepancies with t	his order?	Yes 🗌	No 🗌	NA 🗹			
Person Notified:	Date:	Commission of Marion Pharmace and Commission of Commission	terring but personners at receptors.				
By Whom:	Via:	eMail Pl	hone 🗌 Fax [	In Person			
Regarding:		iiikoiden keele kiidikkii oo oo ja	lineral marie (marie (marie) (	el Billion Constitution and constitution and constitution of constitution of constitution and constitution a			
Client Instructions:		entropiete (1) (1) de la internación de la company en 2 de Maril Table de la inicial del com	1994 - N. S.	del X din de distribuit de des de d			
16. Additional remarks:							
7. Cooler Information Cooler No Temp °C Condition Se 1 1.6 Good Yes	al Intact Seal No	Seal Date	Signed By				

eceived by OCD: 5/9/2022 7:1	7:40 AM	Page 73 of 109
MENTAL RATORY 7109		Property alytical report.
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	### TPH:8015D(GRO / DRO / MRO)  ### S081 Pesticides/8082 PCB's  ### PAHs by 8310 or 8270SIMS  ### RCRA 8 Metals  ### CI, F, Br, No., Po., Po., Po., Po., Po., Po., Po., P	Remarks: Fin Ton Long Ry Kry R 331308  A F E #  possibility. Any sub-contracted data will be clearly notated on the ana
Turn-Around Time: 2 hay  □ Standard   Rush   12-37-3   Project Name: C#  Jica (;     4   Las lon   BJ   EK   Project #: #	Project Manager:  Sampler: C 13 Apont: On Ice:	Time: Relinquished by: Received by:  Receive
Chain-of-Custody Record Client: Ensolum, LLC, Mailing Address: Lob S Kin Crande Soit A 87410 Phone #:	email or Fax#:  QA/QC Package:  □ Standard □ Level 4 (Full Validation)  Accreditation: □ Az Compliance □ NELAC □ Other □ EDD (Type) □ Az Compliance □ EDD (Type) □ Az Compliance □ Az Compliance □ Az Compliance □ Az Compliance □ Az M/W \$ \$^{-3}\$  % M/W \$ \$^{-3}\$	Date: Time: Relinquished by: Relinquished by: Date: Time: Relinquished by: $\frac{\partial}{\partial r} \ln r \ln r$



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

January 26, 2022

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

TEL: (903) 821-5603

FAX

RE: Jicarilla GasCom B1 CH OrderNo.: 2201769

#### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 1/20/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued January 25, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Xylenes, Total

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2201769

Date Reported: 1/26/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-7

 Project:
 Jicarilla GasCom B1 CH
 Collection Date: 1/19/2022 9:30:00 AM

 Lab ID:
 2201769-001
 Matrix: MEOH (SOIL)
 Received Date: 1/20/2022 7:00:00 AM

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 1/20/2022 11:48:27 AM 65120 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 940 10 mg/Kg 1/20/2022 10:39:03 AM 65116 Motor Oil Range Organics (MRO) ND 1/20/2022 10:39:03 AM 65116 50 mg/Kg 1 Surr: DNOP 71.7 51.1-141 %Rec 1/20/2022 10:39:03 AM 65116 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb 1/20/2022 1:50:00 PM Gasoline Range Organics (GRO) 2900 220 mg/Kg 50 R85281 70-130 Surr: BFB 273 S %Rec 50 1/20/2022 1:50:00 PM R85281 **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene 5.6 0.11 mg/Kg 5 1/20/2022 9:35:00 AM R85281 Toluene 70 2.2 mg/Kg 50 1/20/2022 1:50:00 PM R85281 Ethylbenzene 21 0.22 mg/Kg 5 1/20/2022 9:35:00 AM R85281

180

134

4.4

S

70-130

mg/Kg

%Rec

50

1/20/2022 1:50:00 PM

1/20/2022 1:50:00 PM

R85281

R85281

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
- POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/26/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-8

 Project:
 Jicarilla GasCom B1 CH
 Collection Date: 1/19/2022 9:35:00 AM

 Lab ID:
 2201769-002
 Matrix: MEOH (SOIL)
 Received Date: 1/20/2022 7:00:00 AM

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 1/20/2022 12:00:51 PM 65120 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 1000 93 mg/Kg 1/20/2022 12:15:22 PM 65116 Motor Oil Range Organics (MRO) ND 1/20/2022 12:15:22 PM 65116 470 mg/Kg Surr: DNOP 0 51.1-141 S %Rec 1/20/2022 12:15:22 PM 65116 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) 100 1/20/2022 2:29:00 PM 6400 R85281 410 mg/Kg Surr: BFB 241 70-130 S %Rec 100 1/20/2022 2:29:00 PM R85281 **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene 14 0.10 mg/Kg 5 1/20/2022 9:54:00 AM R85281 Toluene 180 4.1 mg/Kg 100 1/20/2022 2:29:00 PM R85281 Ethylbenzene 47 4.1 mg/Kg 100 1/20/2022 2:29:00 PM R85281 Xylenes, Total 390 8.2 mg/Kg 100 1/20/2022 2:29:00 PM R85281 Surr: 4-Bromofluorobenzene 129 70-130 %Rec 100 1/20/2022 2:29:00 PM R85281

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

Qualifiers:

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

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Date Reported: 1/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-9

 Project:
 Jicarilla GasCom B1 CH
 Collection Date: 1/19/2022 9:40:00 AM

 Lab ID:
 2201769-003
 Matrix: MEOH (SOIL)
 Received Date: 1/20/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	1/20/2022 12:13:15 PM	65120
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/20/2022 11:03:04 AM	65116
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/20/2022 11:03:04 AM	65116
Surr: DNOP	73.6	51.1-141	%Rec	1	1/20/2022 11:03:04 AM	65116
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/20/2022 3:09:00 PM	R85281
Surr: BFB	89.0	70-130	%Rec	1	1/20/2022 3:09:00 PM	R85281
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.023	mg/Kg	1	1/20/2022 3:09:00 PM	R85281
Toluene	0.091	0.046	mg/Kg	1	1/20/2022 3:09:00 PM	R85281
Ethylbenzene	ND	0.046	mg/Kg	1	1/20/2022 3:09:00 PM	R85281
Xylenes, Total	0.20	0.092	mg/Kg	1	1/20/2022 3:09:00 PM	R85281
Surr: 4-Bromofluorobenzene	89.7	70-130	%Rec	1	1/20/2022 3:09:00 PM	R85281

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

Qualifiers:

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

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2201769-004

Lab ID:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

#### **Analytical Report** Lab Order 2201769

Received Date: 1/20/2022 7:00:00 AM

Date Reported: 1/26/2022

1/20/2022 10:34:00 AM R85281

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: ENSOLUM** Client Sample ID: S-10

**Project:** Jicarilla GasCom B1 CH Collection Date: 1/19/2022 9:45:00 AM Matrix: MEOH (SOIL)

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 1/20/2022 12:25:40 PM 65120 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 260 9.3 mg/Kg 1/20/2022 11:15:16 AM 65116 Motor Oil Range Organics (MRO) ND 1/20/2022 11:15:16 AM 65116 47 mg/Kg 1 Surr: DNOP 78.2 51.1-141 %Rec 1/20/2022 11:15:16 AM 65116 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) 1/20/2022 10:34:00 AM R85281 63 mg/Kg 5 19 Surr: BFB 198 70-130 S %Rec 5 1/20/2022 10:34:00 AM R85281 **EPA METHOD 8021B: VOLATILES** Analyst: mb

ND

0.35

0.29

2.5

118

0.096

0.19

0.19

0.38

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

5

5

5

5

5

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
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- E
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit RL

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Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2201769

Date Reported: 1/26/2022

1/20/2022 10:53:00 AM R85281

Analyst: mb

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-11

 Project:
 Jicarilla GasCom B1 CH
 Collection Date: 1/19/2022 9:50:00 AM

 Lab ID:
 2201769-005
 Matrix: MEOH (SOIL)
 Received Date: 1/20/2022 7:00:00 AM

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 1/20/2022 12:38:05 PM 65120 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 79 9.0 mg/Kg 1/20/2022 11:27:22 AM 65116 Motor Oil Range Organics (MRO) ND 1/20/2022 11:27:22 AM 65116 45 mg/Kg 1 Surr: DNOP 78.3 51.1-141 %Rec 1/20/2022 11:27:22 AM 65116 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) 1/20/2022 10:53:00 AM R85281 110 23 mg/Kg 5

70-130

0.11

0.23

0.23

0.46

70-130

S

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

5

5

5

5

5

5

201

ND

1.1

0.81

6.3

113

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

#### Qualifiers:

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

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2201769-006

Surr: 4-Bromofluorobenzene

Lab ID:

#### **Analytical Report** Lab Order 2201769

Received Date: 1/20/2022 7:00:00 AM

Date Reported: 1/26/2022

1/20/2022 11:13:00 AM R85281

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: ENSOLUM** Client Sample ID: S-12

**Project:** Jicarilla GasCom B1 CH Collection Date: 1/19/2022 9:55:00 AM Matrix: MEOH (SOIL)

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 80 60 mg/Kg 1/20/2022 12:50:29 PM 65120 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 20 9.9 mg/Kg 1/20/2022 11:39:18 AM 65116 Motor Oil Range Organics (MRO) ND 1/20/2022 11:39:18 AM 65116 49 mg/Kg 1 Surr: DNOP 78.8 51.1-141 %Rec 1/20/2022 11:39:18 AM 65116 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) 1/20/2022 11:13:00 AM R85281 ND 5 17 mg/Kg Surr: BFB 101 %Rec 5 1/20/2022 11:13:00 AM R85281 70-130 **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.085 mg/Kg 5 1/20/2022 11:13:00 AM R85281 Toluene ND 0.17 mg/Kg 5 1/20/2022 11:13:00 AM R85281 Ethylbenzene ND 0.17 mg/Kg 5 1/20/2022 11:13:00 AM R85281 Xylenes, Total 0.34 0.34 mg/Kg 5 1/20/2022 11:13:00 AM R85281

92.9

70-130

%Rec

5

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
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- E
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit RL

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Date Reported: 1/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-13

Project: Jicarilla GasCom B1 CH Collection Date: 1/19/2022 10:00:00 AM

**Lab ID:** 2201769-007 **Matrix:** MEOH (SOIL) **Received Date:** 1/20/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	72	61	mg/Kg	20	1/20/2022 1:02:53 PM	65120
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	14	9.6	mg/Kg	1	1/20/2022 11:51:14 AM	65116
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/20/2022 11:51:14 AM	65116
Surr: DNOP	78.0	51.1-141	%Rec	1	1/20/2022 11:51:14 AM	65116
EPA METHOD 8015D: GASOLINE RANGE					Analyst	mb
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	1/20/2022 11:32:00 AM	R85281
Surr: BFB	86.0	70-130	%Rec	1	1/20/2022 11:32:00 AM	R85281
EPA METHOD 8021B: VOLATILES					Analyst	mb
Benzene	ND	0.018	mg/Kg	1	1/20/2022 11:32:00 AM	R85281
Toluene	ND	0.037	mg/Kg	1	1/20/2022 11:32:00 AM	R85281
Ethylbenzene	ND	0.037	mg/Kg	1	1/20/2022 11:32:00 AM	R85281
Xylenes, Total	ND	0.074	mg/Kg	1	1/20/2022 11:32:00 AM	R85281
Surr: 4-Bromofluorobenzene	88.2	70-130	%Rec	1	1/20/2022 11:32:00 AM	R85281

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

Qualifiers:

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

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Date Reported: 1/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-14

 Project:
 Jicarilla GasCom B1 CH
 Collection Date: 1/19/2022 10:05:00 AM

 Lab ID:
 2201769-008
 Matrix: MEOH (SOIL)
 Received Date: 1/20/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	4100	150	mg/Kg	50	1/21/2022 8:35:04 AM	65120
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	:: TOM
Diesel Range Organics (DRO)	44	9.9	mg/Kg	1	1/20/2022 12:03:13 PM	l 65116
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/20/2022 12:03:13 PM	l 65116
Surr: DNOP	77.1	51.1-141	%Rec	1	1/20/2022 12:03:13 PM	l 65116
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: mb
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	1/20/2022 11:52:00 AM	R85281
Surr: BFB	104	70-130	%Rec	5	1/20/2022 11:52:00 AM	R85281
EPA METHOD 8021B: VOLATILES					Analyst	:: mb
Benzene	ND	0.10	mg/Kg	5	1/20/2022 11:52:00 AM	R85281
Toluene	0.22	0.21	mg/Kg	5	1/20/2022 11:52:00 AM	R85281
Ethylbenzene	ND	0.21	mg/Kg	5	1/20/2022 11:52:00 AM	R85281
Xylenes, Total	1.1	0.42	mg/Kg	5	1/20/2022 11:52:00 AM	R85281
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	5	1/20/2022 11:52:00 AM	R85281

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

Qualifiers:

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

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Date Reported: 1/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-15

 Project:
 Jicarilla GasCom B1 CH
 Collection Date: 1/19/2022 10:10:00 AM

 Lab ID:
 2201769-009
 Matrix: MEOH (SOIL)
 Received Date: 1/20/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JMT
Chloride	ND	60	mg/Kg	20	1/20/2022 1:52:30 PM	65120
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: ТОМ
Diesel Range Organics (DRO)	19	9.8	mg/Kg	1	1/20/2022 11:38:51 AM	l 65116
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/20/2022 11:38:51 AM	l 65116
Surr: DNOP	99.8	51.1-141	%Rec	1	1/20/2022 11:38:51 AM	l 65116
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: mb
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	1/20/2022 12:12:00 PM	R85281
Surr: BFB	90.2	70-130	%Rec	5	1/20/2022 12:12:00 PM	R85281
EPA METHOD 8021B: VOLATILES					Analyst	:: mb
Benzene	ND	0.11	mg/Kg	5	1/20/2022 12:12:00 PM	R85281
Toluene	ND	0.21	mg/Kg	5	1/20/2022 12:12:00 PM	R85281
Ethylbenzene	ND	0.21	mg/Kg	5	1/20/2022 12:12:00 PM	R85281
Xylenes, Total	ND	0.42	mg/Kg	5	1/20/2022 12:12:00 PM	R85281
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	5	1/20/2022 12:12:00 PM	R85281

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

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Date Reported: 1/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-16

 Project:
 Jicarilla GasCom B1 CH
 Collection Date: 1/19/2022 10:15:00 AM

 Lab ID:
 2201769-010
 Matrix: MEOH (SOIL)
 Received Date: 1/20/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	1/20/2022 2:04:55 PM	65120
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	55	9.9		mg/Kg	1	1/20/2022 12:02:36 PM	65116
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/20/2022 12:02:36 PM	65116
Surr: DNOP	105	51.1-141		%Rec	1	1/20/2022 12:02:36 PM	65116
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: mb
Gasoline Range Organics (GRO)	72	19		mg/Kg	5	1/20/2022 12:31:00 PM	R85281
Surr: BFB	193	70-130	S	%Rec	5	1/20/2022 12:31:00 PM	R85281
EPA METHOD 8021B: VOLATILES						Analyst	: mb
Benzene	ND	0.094		mg/Kg	5	1/20/2022 12:31:00 PM	R85281
Toluene	0.35	0.19		mg/Kg	5	1/20/2022 12:31:00 PM	R85281
Ethylbenzene	0.48	0.19		mg/Kg	5	1/20/2022 12:31:00 PM	R85281
Xylenes, Total	3.8	0.38		mg/Kg	5	1/20/2022 12:31:00 PM	R85281
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	5	1/20/2022 12:31:00 PM	R85281

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

Qualifiers:

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

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Date Reported: 1/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-17

**Project:** Jicarilla GasCom B1 CH Collection Date: 1/19/2022 10:20:00 AM

**Lab ID:** 2201769-011 **Matrix:** MEOH (SOIL) **Received Date:** 1/20/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	1/20/2022 2:17:20 PM	65120
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: TOM
Diesel Range Organics (DRO)	26	10		mg/Kg	1	1/20/2022 12:27:20 PM	65116
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/20/2022 12:27:20 PM	65116
Surr: DNOP	80.0	51.1-141		%Rec	1	1/20/2022 12:27:20 PM	65116
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: mb
Gasoline Range Organics (GRO)	25	18		mg/Kg	5	1/20/2022 1:11:00 PM	R85281
Surr: BFB	130	70-130	S	%Rec	5	1/20/2022 1:11:00 PM	R85281
EPA METHOD 8021B: VOLATILES						Analyst	: mb
Benzene	ND	0.089		mg/Kg	5	1/20/2022 1:11:00 PM	R85281
Toluene	0.32	0.18		mg/Kg	5	1/20/2022 1:11:00 PM	R85281
Ethylbenzene	ND	0.18		mg/Kg	5	1/20/2022 1:11:00 PM	R85281
Xylenes, Total	1.4	0.35		mg/Kg	5	1/20/2022 1:11:00 PM	R85281
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	1/20/2022 1:11:00 PM	R85281

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

Qualifiers:

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

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Date Reported: 1/26/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: ENSOLUM** Client Sample ID: S-18

**Project:** Jicarilla GasCom B1 CH Collection Date: 1/19/2022 10:25:00 AM Lab ID: 2201769-012 Matrix: MEOH (SOIL) Received Date: 1/20/2022 7:00:00 AM

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 61 mg/Kg 1/20/2022 2:29:45 PM **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

65120 Analyst: TOM Diesel Range Organics (DRO) 10 9.2 mg/Kg 1/20/2022 12:39:17 PM 65116 Motor Oil Range Organics (MRO) ND 1/20/2022 12:39:17 PM 65116 46 mg/Kg 1 Surr: DNOP 80.3 51.1-141 %Rec 1/20/2022 12:39:17 PM 65116 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) 1/20/2022 1:30:00 PM ND 5 R85281 19 mg/Kg Surr: BFB 95.5 70-130 %Rec 5 1/20/2022 1:30:00 PM R85281 **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.093 mg/Kg 5 1/20/2022 1:30:00 PM R85281 Toluene ND 0.19 mg/Kg 5 1/20/2022 1:30:00 PM R85281 Ethylbenzene ND 0.19 mg/Kg 5 1/20/2022 1:30:00 PM R85281 Xylenes, Total ND 0.37 mg/Kg 5 1/20/2022 1:30:00 PM R85281 Surr: 4-Bromofluorobenzene 97.9 70-130 %Rec 5 1/20/2022 1:30:00 PM R85281

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
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- E
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit RL

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201769 26-Jan-22** 

Client: ENSOLUM

**Project:** Jicarilla GasCom B1 CH

Sample ID: MB-65120 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65120 RunNo: 85296

Prep Date: 1/20/2022 Analysis Date: 1/20/2022 SeqNo: 3001297 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-65120 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65120 RunNo: 85296

Prep Date: 1/20/2022 Analysis Date: 1/20/2022 SeqNo: 3001298 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.6 90 110

#### Qualifiers:

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Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201769 26-Jan-22** 

Client: ENSOLUM

**Project:** Jicarilla GasCom B1 CH

Sample ID: MB-65116 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **65116** RunNo: **85287** 

Prep Date: 1/20/2022 Analysis Date: 1/20/2022 SeqNo: 3000501 Units: mg/Kg

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 8.2 10.00 81.6 51.1 141

Sample ID: LCS-65116 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 65116 RunNo: 85287

Prep Date: 1/20/2022 Analysis Date: 1/20/2022 SeqNo: 3000502 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 43 10 50.00 0 86.3 68.9 135

 Diesel Range Organics (DRO)
 43
 10
 50.00
 0
 86.3
 68.9
 135

 Surr: DNOP
 4.0
 5.000
 80.7
 51.1
 141

Sample ID: 2201769-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **\$-7** Batch ID: **65116** RunNo: **85287** 

Prep Date: 1/20/2022 Analysis Date: 1/20/2022 SeqNo: 3000635 Units: mg/Kg

**PQL** SPK Ref Val %REC Qual Analyte Result SPK value LowLimit HighLimit %RPD **RPDLimit** 944.3 Diesel Range Organics (DRO) 930 9.9 49.65 -29.2 39.3 155 S

 Surr: DNOP
 3.3
 4.965
 66.9
 51.1
 141

Sample ID: 2201769-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **S-7** Batch ID: **65116** RunNo: **85287** 

Prep Date: 1/20/2022 Analysis Date: 1/20/2022 SeqNo: 3000636 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result **PQL** LowLimit Diesel Range Organics (DRO) 890 9.8 48.88 944.3 -118 39.3 155 4.76 23.4 Surr: DNOP 3.1 4.888 63.5 51.1 141 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201769** 

26-Jan-22

Client: ENSOLUM

**Project:** Jicarilla GasCom B1 CH

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

Client ID: PBS Batch ID: R85281 RunNo: 85281

Prep Date: Analysis Date: 1/20/2022 SeqNo: 3000341 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 920 1000 91.7 70 130

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

Client ID: LCSS Batch ID: R85281 RunNo: 85281

Prep Date: Analysis Date: 1/20/2022 SeqNo: 3000342 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 24 5.0 25.00 0 94.8 78.6 131

Surr: BFB 1100 1000 112 70 130

Sample ID: 2201769-003ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-9 Batch ID: R85281 RunNo: 85281

Prep Date: Analysis Date: 1/20/2022 SeqNo: 3001112 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 21
 4.6
 23.10
 0
 89.1
 70
 130

 Surr: BFB
 860
 924.2
 92.6
 70
 130

Sample ID: 2201769-003amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-9 Batch ID: R85281 RunNo: 85281

Prep Date: Analysis Date: 1/20/2022 SeqNo: 3001114 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 21 4.6 23.10 89.2 70 130 0.179 20 870 Surr: BFB 924.2 93.8 70 130 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201769 26-Jan-22** 

Client: ENSOLUM

**Project:** Jicarilla GasCom B1 CH

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

Client ID: PBS Batch ID: R85281 RunNo: 85281

Prep Date: Analysis Date: 1/20/2022 SeqNo: 3000346 Units: mg/Kg

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

Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.98 1.000 97.8 70 130

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

Client ID: LCSS Batch ID: R85281 RunNo: 85281

Prep Date:	Analysis [	Date: 1/	20/2022	S	SeqNo: 3	000347	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	0.99	0.050	1.000	0	99.2	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	70	130			

Sample ID: 2201769-007ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: S-13 Batch ID: R85281 RunNo: 85281

Prep Date:	e: Analysis Date: 1/20/2022			5	SeqNo: <b>3001136</b>			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.018	0.7396	0	100	80	120			
Toluene	0.77	0.037	0.7396	0	104	80	120			
Ethylbenzene	0.73	0.037	0.7396	0	98.4	80	120			
Xylenes, Total	2.2	0.074	2.219	0.02649	99.9	80	120			
Surr: 4-Bromofluorohenzene	0.64		0.7396		86.8	70	130			

Sample ID: 2201769-007amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: S-13 Batch ID: R85281 RunNo: 85281

Prep Date:	Analysis Date: 1/20/2022			8	SeqNo: <b>3001138</b>			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.018	0.7396	0	95.7	80	120	4.48	20	
Toluene	0.74	0.037	0.7396	0	100	80	120	3.39	20	
Ethylbenzene	0.70	0.037	0.7396	0	94.5	80	120	3.99	20	
Xylenes, Total	2.2	0.074	2.219	0.02649	96.3	80	120	3.57	20	
Surr: 4-Bromofluorobenzene	0.61		0.7396		82.4	70	130	0	0	

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Name: ENSOLUM Work Orde	er Number: 2201769		RcptNo: 1
Received By: Tracy Casarrubias 1/20/2022 7:	00:00 AM		
Completed By: Sean Livingston 1/20/2022 8:	05:44 AM	Salyah	
Reviewed By: KK # 1/20/2	2	Drum Wystan	
Chain of Custody $ x \neq x $ $ x \neq x $			
1. Is Chain of Custody complete?	Yes 🗸	No 🗌 Not	Present
2. How was the sample delivered?	Courier		
<u>Log In</u>			
3. Was an attempt made to cool the samples?	Yes 🗸	No 🗌	NA 🗌
4. Were all samples received at a temperature of >0° C to 6.0	°C Yes 🗸	No 🗌	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 🗸	NA 🗌
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
Were any sample containers received broken?	Yes 🗆	No 🗸 # of pre	eserved
Does paperwork match bottle labels?     (Note discrepancies on chain of custody)	Yes 🗸	No D bottles for pH:	checked (<2 or >12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗌 💮 A	Adjusted?
3. Is it clear what analyses were requested?	Yes 🗸	No 🗆	
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No 🗆 🕒	hecked by: JN 120/22
pecial Handling (if applicable)			
5. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified:	Date:		
By Whom:	Via: eMail P	none 🗌 Fax 🔲 In Pe	erson
Regarding:			office and challenged in the second and a second a second and a second and a second and a second and a second a second and
Client Instructions:  6. Additional remarks:			TO STORY AND A REAL PROPERTY AND A STORY
7. Cooler Information	av II aga mara a		
Cooler No Temp °C Condition Seal Intact Seal 1 0.4 Good	No Seal Date	Signed By	
0000			

Received by OCD: 5/9/2022	7:40 AM			Page 92 of 109
HALL ENVIRONMENT ANALYSIS LABORATC www.hallenvironmental.com kins NE - Albuquerque, NM 87109 845-3975 Fax 505-345-4107 Analysis Request	PAHs by 8310 or 8270SIMS  RCRA 8 Metals  CITY BL MOS MOS, POL 30S  8260 (VOA)  8270 (Semi-VOA)  Total Coliform (Present/Absent)			Date Time Remarks: $\rho_{m}$ $\rho$
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	BTEX / MTBE-/ TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1)			Remarks: Pm For Sery AFE# possibility. Any sub-contra
100 Sulta 1-20-21 Con BI EX	4; 1 No 1 No 1 (°C) HEAL NO.	200 803 803 803 803 803 803 803 803 803 8	500 500 510 011	Date Time Relation Date Time Date Time Date Time Time This serves as notice of this po
Time:  ## Rush  ## Gas	Ager:  Ummus/S  M DS/M  Ves  (Including CF): OS  Preservative  Type		Cal Cal	
Turn-Around  ☐ Standard Project Name	2			Received by: Received by: bcontracted to othe
Chain-of-Custody Record  The new lie is the leade in the second in the s	2 de pont; © ensolum Lem  □ Level 4 (Full Validation) □ Az Compliance □ Other  Matrix Sample Name	5-8 8-8 01-5 11-5 5-13	S-13 S-14 S-15 S-17 S-18	Time: Relinquished by: Via:    325
Tain-of-Cu				Refinquished by: Refinquished by: ary, samples submitted t
Client: Ens Mailing Address: \$\infty \tau + A Phone #:	email or Fax#:  QA/QC Package:  Standard  Accreditation:  NELAC  EDD (Type)	119 935 119 940 119 950 119 950 119 950	m 0 0 0 0 0	Make: Time: $\frac{1925}{192}$ Date: Time: $\frac{1}{19}$ $\frac{1}{18}$ $\frac{1}{12}$



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

January 28, 2022

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

TEL: (903) 821-5603

FAX

RE: Jicarilla Gas Com B1 CH OrderNo.: 2201931

#### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/25/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/28/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-19

**Project:** Jicarilla Gas Com B1 CH **Collection Date:** 1/24/2022 9:30:00 AM

**Lab ID:** 2201931-001 **Matrix:** MEOH (SOIL) **Received Date:** 1/25/2022 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	1/25/2022 10:28:10 AM	65186
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	310	9.5		mg/Kg	1	1/25/2022 10:56:06 AM	65184
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/25/2022 10:56:06 AM	65184
Surr: DNOP	96.6	51.1-141		%Rec	1	1/25/2022 10:56:06 AM	65184
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	550	19		mg/Kg	5	1/25/2022 9:39:49 AM	G85392
Surr: BFB	551	70-130	S	%Rec	5	1/25/2022 9:39:49 AM	G85392
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.39	0.094		mg/Kg	5	1/25/2022 9:39:49 AM	B85392
Toluene	14	0.19		mg/Kg	5	1/25/2022 9:39:49 AM	B85392
Ethylbenzene	3.7	0.19		mg/Kg	5	1/25/2022 9:39:49 AM	B85392
Xylenes, Total	42	0.38		mg/Kg	5	1/25/2022 9:39:49 AM	B85392
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	5	1/25/2022 9:39:49 AM	B85392

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

Qualifiers:

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

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Date Reported: 1/28/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-20

**Project:** Jicarilla Gas Com B1 CH **Collection Date:** 1/24/2022 9:35:00 AM

**Lab ID:** 2201931-002 **Matrix:** MEOH (SOIL) **Received Date:** 1/25/2022 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	71	60		mg/Kg	20	1/25/2022 10:40:34 AM	65186
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	260	9.7		mg/Kg	1	1/25/2022 11:19:52 AM	65184
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/25/2022 11:19:52 AM	65184
Surr: DNOP	96.4	51.1-141		%Rec	1	1/25/2022 11:19:52 AM	65184
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	60	20		mg/Kg	5	1/25/2022 10:03:11 AM	G85392
Surr: BFB	187	70-130	S	%Rec	5	1/25/2022 10:03:11 AM	G85392
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.099		mg/Kg	5	1/25/2022 10:03:11 AM	B85392
Toluene	0.53	0.20		mg/Kg	5	1/25/2022 10:03:11 AM	B85392
Ethylbenzene	ND	0.20		mg/Kg	5	1/25/2022 10:03:11 AM	B85392
Xylenes, Total	2.2	0.40		mg/Kg	5	1/25/2022 10:03:11 AM	B85392
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	5	1/25/2022 10:03:11 AM	B85392

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

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Date Reported: 1/28/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-21

**Project:** Jicarilla Gas Com B1 CH **Collection Date:** 1/24/2022 9:40:00 AM

**Lab ID:** 2201931-003 **Matrix:** MEOH (SOIL) **Received Date:** 1/25/2022 7:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	200	60	mg/Kg	20	1/25/2022 10:52:59 AM	65186
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/25/2022 11:43:42 AM	65184
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/25/2022 11:43:42 AM	65184
Surr: DNOP	96.6	51.1-141	%Rec	1	1/25/2022 11:43:42 AM	65184
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	20	mg/Kg	5	1/25/2022 10:26:40 AM	G85392
Surr: BFB	102	70-130	%Rec	5	1/25/2022 10:26:40 AM	G85392
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.10	mg/Kg	5	1/25/2022 10:26:40 AM	B85392
Toluene	ND	0.20	mg/Kg	5	1/25/2022 10:26:40 AM	B85392
Ethylbenzene	ND	0.20	mg/Kg	5	1/25/2022 10:26:40 AM	B85392
Xylenes, Total	ND	0.40	mg/Kg	5	1/25/2022 10:26:40 AM	B85392
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	5	1/25/2022 10:26:40 AM	B85392

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

Qualifiers:

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

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Date Reported: 1/28/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-22

**Project:** Jicarilla Gas Com B1 CH **Collection Date:** 1/24/2022 9:45:00 AM

**Lab ID:** 2201931-004 **Matrix:** MEOH (SOIL) **Received Date:** 1/25/2022 7:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: CAS
Chloride	69	60	mg/K	g 20	1/25/2022 11:05:23 AM	l 65186
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	28	9.7	mg/K	g 1	1/25/2022 12:07:28 PM	l 65184
Motor Oil Range Organics (MRO)	ND	48	mg/K	g 1	1/25/2022 12:07:28 PM	l 65184
Surr: DNOP	95.5	51.1-141	%Re	1	1/25/2022 12:07:28 PM	l 65184
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	23	mg/K	g 5	1/25/2022 10:50:07 AM	G85392
Surr: BFB	108	70-130	%Re	5	1/25/2022 10:50:07 AM	G85392
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.11	mg/K	g 5	1/25/2022 10:50:07 AM	B85392
Toluene	ND	0.23	mg/K	g 5	1/25/2022 10:50:07 AM	B85392
Ethylbenzene	ND	0.23	mg/K	g 5	1/25/2022 10:50:07 AM	B85392
Xylenes, Total	1.1	0.45	mg/K	g 5	1/25/2022 10:50:07 AM	B85392
Surr: 4-Bromofluorobenzene	102	70-130	%Re	5	1/25/2022 10:50:07 AM	B85392

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

Qualifiers:

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

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Date Reported: 1/28/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-1

**Project:** Jicarilla Gas Com B1 CH Collection Date: 1/24/2022 9:50:00 AM

**Lab ID:** 2201931-005 **Matrix:** MEOH (SOIL) **Received Date:** 1/25/2022 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	75	60		mg/Kg	20	1/25/2022 11:17:47 AM	65186
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	700	10		mg/Kg	1	1/25/2022 11:28:22 AM	65184
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/25/2022 11:28:22 AM	65184
Surr: DNOP	91.6	51.1-141		%Rec	1	1/25/2022 11:28:22 AM	65184
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	2200	220		mg/Kg	50	1/25/2022 1:11:31 PM	G85392
Surr: BFB	314	70-130	S	%Rec	50	1/25/2022 1:11:31 PM	G85392
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.33	0.11		mg/Kg	5	1/25/2022 11:13:39 AM	B85392
Toluene	22	0.22		mg/Kg	5	1/25/2022 11:13:39 AM	B85392
Ethylbenzene	5.2	0.22		mg/Kg	5	1/25/2022 11:13:39 AM	B85392
Xylenes, Total	140	4.5		mg/Kg	50	1/25/2022 1:11:31 PM	B85392
Surr: 4-Bromofluorobenzene	193	70-130	S	%Rec	5	1/25/2022 11:13:39 AM	B85392

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

Qualifiers:

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

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Date Reported: 1/28/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-2

**Project:** Jicarilla Gas Com B1 CH **Collection Date:** 1/24/2022 9:55:00 AM

**Lab ID:** 2201931-006 **Matrix:** MEOH (SOIL) **Received Date:** 1/25/2022 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	340	60		mg/Kg	20	1/25/2022 11:30:11 AM	65186
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	1500	98		mg/Kg	10	1/26/2022 3:50:51 PM	65184
Motor Oil Range Organics (MRO)	ND	490	D	mg/Kg	10	1/26/2022 3:50:51 PM	65184
Surr: DNOP	0	51.1-141	S	%Rec	10	1/26/2022 3:50:51 PM	65184
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	190	20		mg/Kg	5	1/25/2022 1:58:54 PM	G85392
Surr: BFB	406	70-130	S	%Rec	5	1/25/2022 1:58:54 PM	G85392
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.099		mg/Kg	5	1/25/2022 1:58:54 PM	B85392
Toluene	ND	0.20		mg/Kg	5	1/25/2022 1:58:54 PM	B85392
Ethylbenzene	ND	0.20		mg/Kg	5	1/25/2022 1:58:54 PM	B85392
Xylenes, Total	5.4	0.40		mg/Kg	5	1/25/2022 1:58:54 PM	B85392
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	1/25/2022 1:58:54 PM	B85392

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

Qualifiers:

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

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Date Reported: 1/28/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-3

Project: Jicarilla Gas Com B1 CH Collection Date: 1/24/2022 10:00:00 AM

**Lab ID:** 2201931-007 **Matrix:** MEOH (SOIL) **Received Date:** 1/25/2022 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	1/25/2022 11:42:35 AM	65186
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	920	9.5		mg/Kg	1	1/25/2022 12:16:36 PM	65184
Motor Oil Range Organics (MRO)	60	48		mg/Kg	1	1/25/2022 12:16:36 PM	65184
Surr: DNOP	103	51.1-141		%Rec	1	1/25/2022 12:16:36 PM	65184
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	380	24		mg/Kg	5	1/25/2022 12:00:43 PM	G85392
Surr: BFB	496	70-130	S	%Rec	5	1/25/2022 12:00:43 PM	G85392
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12		mg/Kg	5	1/25/2022 12:00:43 PM	B85392
Toluene	2.3	0.24		mg/Kg	5	1/25/2022 12:00:43 PM	B85392
Ethylbenzene	1.5	0.24		mg/Kg	5	1/25/2022 12:00:43 PM	B85392
Xylenes, Total	22	0.48		mg/Kg	5	1/25/2022 12:00:43 PM	B85392
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	5	1/25/2022 12:00:43 PM	B85392

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

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Date Reported: 1/28/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-4

**Project:** Jicarilla Gas Com B1 CH Collection Date: 1/24/2022 10:05:00 AM

**Lab ID:** 2201931-008 **Matrix:** MEOH (SOIL) **Received Date:** 1/25/2022 7:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	1/25/2022 11:55:00 AM	65186
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	SB
Diesel Range Organics (DRO)	10	10	mg/Kg	1	1/25/2022 12:40:42 PM	65184
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/25/2022 12:40:42 PM	65184
Surr: DNOP	91.6	51.1-141	%Rec	1	1/25/2022 12:40:42 PM	65184
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	1/25/2022 12:24:21 PM	G85392
Surr: BFB	118	70-130	%Rec	1	1/25/2022 12:24:21 PM	G85392
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	1/25/2022 12:24:21 PM	B85392
Toluene	ND	0.042	mg/Kg	1	1/25/2022 12:24:21 PM	B85392
Ethylbenzene	ND	0.042	mg/Kg	1	1/25/2022 12:24:21 PM	B85392
Xylenes, Total	0.17	0.084	mg/Kg	1	1/25/2022 12:24:21 PM	B85392
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	1/25/2022 12:24:21 PM	B85392

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

Qualifiers:

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

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Xylenes, Total

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2201931

Date Reported: 1/28/2022

1/25/2022 12:48:06 PM B85392

1/25/2022 12:48:06 PM B85392

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-5

 Project:
 Jicarilla Gas Com B1 CH
 Collection Date: 1/24/2022 10:10:00 AM

 Lab ID:
 2201931-009
 Matrix: MEOH (SOIL)
 Received Date: 1/25/2022 7:50:00 AM

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 60 mg/Kg 1/25/2022 12:32:12 PM 65186 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.3 mg/Kg 1/25/2022 12:55:17 PM 65184 Motor Oil Range Organics (MRO) ND 1/25/2022 12:55:17 PM 65184 46 mg/Kg 1 Surr: DNOP 97.1 51.1-141 %Rec 1/25/2022 12:55:17 PM 65184 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 1/25/2022 12:48:06 PM G85392 Gasoline Range Organics (GRO) ND 4.2 mg/Kg 1 Surr: BFB 102 70-130 %Rec 1/25/2022 12:48:06 PM G85392 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.021 mg/Kg 1/25/2022 12:48:06 PM B85392 Toluene ND 0.042 mg/Kg 1 1/25/2022 12:48:06 PM B85392 Ethylbenzene ND 0.042 mg/Kg 1/25/2022 12:48:06 PM B85392

ND

100

0.084

70-130

mg/Kg

%Rec

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

Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201931** 

28-Jan-22

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 CH

Sample ID: MB-65186 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65186 RunNo: 85410

Prep Date: 1/25/2022 Analysis Date: 1/25/2022 SeqNo: 3005331 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-65186 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65186 RunNo: 85410

Prep Date: 1/25/2022 Analysis Date: 1/25/2022 SeqNo: 3005332 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 96.7 90 110

#### Qualifiers:

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Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2201931 28-Jan-22

**ENSOLUM Client:** 

**Project:** Jicarilla Gas Com B1 CH

Sample ID: MB-65184 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 65184 RunNo: 85383

Prep Date: 1/25/2022 Analysis Date: 1/25/2022 SeqNo: 3004697 Units: mq/Kq

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

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.8 10.00 98.3 51.1 141

Sample ID: LCS-65184 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS RunNo: 85383 Batch ID: 65184

Prep Date: 1/25/2022 Analysis Date: 1/25/2022 SeqNo: 3004698 Units: mg/Kg

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

Diesel Range Organics (DRO) 46 10 50.00 n 91.4 68.9 135 Surr: DNOP 4.5 5.000 90.5 51.1 141

Sample ID: 2201931-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-19 Batch ID: 65184 RunNo: 85383

Prep Date: 1/25/2022 Analysis Date: 1/25/2022 SeqNo: 3004700 Units: mg/Kg

**PQL** SPK Ref Val %REC Qual Analyte Result SPK value LowLimit HighLimit %RPD **RPDLimit** Diesel Range Organics (DRO) 320 9.4 46.99 314.9 13.6 39.3 155 S

51 1

141

TestCode: EPA Method 8015M/D: Diesel Range Organics

Surr: DNOP 4.2 4.699 89.6

SampType: MSD Client ID: S-19 Batch ID: 65184 RunNo: 85383

Prep Date: 1/25/2022 Analysis Date: 1/25/2022 SeqNo: 3005224 Units: mg/Kg

**PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 330 10 50.40 314.9 38.7 39.3 155 4.00 23.4 Surr: DNOP 4.9 5.040 97.6 51.1 141 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample ID: 2201931-001AMSD

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value Е

Analyte detected below quantitation limits

Sample pH Not In Range P

RI. Reporting Limit Page 11 of 13

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201931 28-Jan-22** 

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 CH

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

Client ID: **PBS** Batch ID: **G85392** RunNo: **85392** 

Prep Date: Analysis Date: 1/25/2022 SeqNo: 3005082 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 100 70 130

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

Client ID: LCSS Batch ID: G85392 RunNo: 85392

Prep Date: Analysis Date: 1/25/2022 SeqNo: 3005083 Units: mg/Kg

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

Gasoline Range Organics (GRO) 22 5.0 25.00 0 88.9 78.6 131

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 88.9
 78.6
 131

 Surr: BFB
 1100
 1000
 111
 70
 130

Sample ID: 2201931-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-19 Batch ID: G85392 RunNo: 85392

Prep Date: Analysis Date: 1/25/2022 SeqNo: 3005084 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 680 19 94.27 548.8 142 70 130 S Surr: BFB 23000 3771 602 70 130 S

Sample ID: 2201931-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-19 Batch ID: G85392 RunNo: 85392

Prep Date: Analysis Date: 1/25/2022 SeqNo: 3005085 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 670 19 94.27 548.8 132 70 130 1.40 S 20 Surr: BFB 22000 3771 586 70 130 0 0 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201931** 

28-Jan-22

Client: ENSOLUM

**Project:** Jicarilla Gas Com B1 CH

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

Client ID: PBS Batch ID: B85392 RunNo: 85392

Prep Date: Analysis Date: 1/25/2022 SeqNo: 3005118 Units: mg/Kg

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

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 99.7 70 130

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

Client ID: **LCSS** Batch ID: **B85392** RunNo: **85392** 

Prep Date:	Analysis [	Date: 1/	25/2022	S	SeqNo: 3	005119	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.0	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: 2201931-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: S-20 Batch ID: B85392 RunNo: 85392

Prep Date:	Analysis [	Date: 1/	25/2022	S	SeqNo: 3	005120	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.8	0.099	3.975	0.06359	94.1	80	120			
Toluene	4.5	0.20	3.975	0.5286	99.0	80	120			
Ethylbenzene	4.0	0.20	3.975	0.1928	97.0	80	120			
Xylenes, Total	14	0.40	11.92	2.197	99.8	80	120			
Surr: 4-Bromofluorobenzene	4.2		3.975		105	70	130			

Sample ID: 2201931-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **S-20** Batch ID: **B85392** RunNo: **85392** 

Olicit ID. 3-20	Dato	11 1D. <b>DO</b>	JJ32	'	(uiii 10. <b>0</b> .	JJ32				
Prep Date:	Analysis D	Date: 1/	25/2022	9	SeqNo: 3	005121	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.7	0.099	3.975	0.06359	92.6	80	120	1.63	20	
Toluene	4.4	0.20	3.975	0.5286	96.8	80	120	2.01	20	
Ethylbenzene	4.0	0.20	3.975	0.1928	96.0	80	120	0.977	20	
Xylenes, Total	14	0.40	11.92	2.197	99.0	80	120	0.710	20	
Surr: 4-Bromofluorobenzene	4.2		3.975		107	70	130	0	0	

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

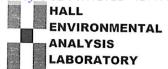
E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Na	ame: ENSOLU	JM	Wor	k Order Nu	mber: 2201931		RcptNo	: 1
Received	By: <b>Sean L</b> i	ivingston	1/25/2	022 7:50:00	O AM	5. /	not-	
Complete	ed By: Tracy C	asarrubias		022 8:08:47			701	
Reviewed		1	0/22					
Chain of	f Custody							
1. Is Chai	in of Custody cor	nplete?			Yes 🗸	No 🗌	Not Present	
2. How wa	as the sample de	livered?			Courier			
Log In								
	n attempt made to	cool the sam	ples?		Yes 🗸	No 🗌	NA 🗆	
4. Were al	ll samples receive	ed at a temper	ature of >0° C	to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample	e(s) in proper con	tainer(s)?			Yes 🗸	No 🗌		
6. Sufficier	nt sample volume	for indicated	test(s)?		Yes 🗸	No 🗌		
7. Are sam	nples (except VO	A and ONG) p	operly preserv	ed?	Yes 🗸	No 🗌		
8. Was pre	eservative added	to bottles?			Yes	No 🗸	NA 🗆	
9. Received	d at least 1 vial w	vith headspace	<1/4" for AQ \	VOA?	Yes	No 🗌	NA 🗹	
0. Were ar	ny sample contai	ners received I	oroken?		Yes	No 🗹	# of preserved	
	aperwork match b screpancies on c		<b>/</b> )		Yes 🗸	No 🗆	bottles checked for pH:	>12 unless noted)
2. Are matr	rices correctly ide	entified on Cha	in of Custody?		Yes 🗸	No 🗌	Adjusted?	in a motody
	r what analyses v		1?		Yes 🗸	No 🗌		. 1
4. Were all (If no, no	holding times ab otify customer for	le to be met? authorization.)	n 17		Yes 🗸	No 🗌	Checked by:	125/22
pecial Ha	andling (if ap	plicable)				_		
5. Was clie	ent notified of all	discrepancies	with this order?	?	Yes	No 🗌	NA 🗹	
Pe	erson Notified:		~~	Date	·	CONTRACTOR OF THE PROPERTY OF		
Ву	y Whom:			Via:	eMail	] Phone $\square$ Fax	☐ In Person	
	egarding:			was a description of the second				
Cli	ient Instructions:		The state of the s		Company of the second s		CONTRACTOR	
6. Addition	nal remarks:							
	Information							
Coole	er No Temp °C		Seal Intact	Seal No	Seal Date	Signed By		
7	0.8	Good	Yes					

Received by OCD: 5/9/2022 7:1	7:40 AM					Page 108 of 109
ENVIRONMENTAL YSIS LABORATORY environmental.com Albuquerque, NM 87109 Fax 505-345-4107 nalysis Request						
OR.		4 5	3			
IALL ENVIRONME NALYSIS LABORA www.hallenvironmental.com ns NE - Albuquerque, NM 87109 15-3975 Fax 505-345-4107 Analysis Request	(Present/Absent)	Total Colifor				++-   ;
LENVIRO LYSIS LAE allenvironmental.cc - Albuquerque, NI brax 505-345- Analysis Request	(AOV	-imə2) 0728				
HALL ENVI ANALYSIS www.hallenvironme kins NE - Albuquerd 845-3975 Fax 50	**************************************	(AOV) 0928				200
		RCRA 8 Me	1	1 7 7		70m Con 100 13 310 as
HALL ANAL ANAL www.hal kins NE - 345-3975	30 or 8270SIMS					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
HALL ANAL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975		EDB (Metho				E 3
4901 H	GRO / DRO / MRO)					SS: F
4 .	(1208) 28MT \ 38					Remarks:
A A H	(7000) 14,12,730				7 7 7 7	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Sans 1-25-5	ON C		100	004	007- 008-	Date Time 3.5    3 4/2.2  Date Time   25/21   50
Time: 1100 Ses (	ger:	ixe	last last		Cool o	Viat Via:
Turn-Around Tire  ☐ Standard Project Name:	Project Manager:    Sumy   Sampler:   D   On Ice:   A   # of Coolers:   1	Cooler Temp(including CF):  Container Preservat Type and # Type	l or say			Received by: Received by:
Chain-of-Custody Record  Ensulum, U.C.  19 Address: Lol Ship Grande  1 + A STMO  = #:	☐ Level 4 (Full Validation) ☐ Az Compliance ☐ Other	Sample Name	5-19	5-52	125-5 175-4 175-5	Time: Relinquished by:    Received by:
1-of-Cus		Matrix	7 7 7	~~~	777	Relinquished by: Relinquished by:
Client: En	email or Fax#:  QA/QC Package:  Standard  Accreditation:  NELAC  EDD (Type)	Time ,	930	950	1005 1005 1016	Date: Time: 7/1/22 1315 Date: Time: 124 72 1813
Client: Mailing A	email or Fax  QA/QC Packa  □ Standard  Accreditatior  □ NELAC  □ EDD (Typ	Date 17	124	2020	1/24	Date: 74/22 Date: 124/22

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

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

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

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

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

CONDITIONS

Action 105131

#### **CONDITIONS**

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	105131
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/20/2022