



June 17, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
EVGSAU 3308-007 Flowline
Incident Numbers nAPP2320559406 and nAPP2409337860
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the EVGSAU 3308-007 Flowline (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from two releases of produced water and crude oil at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2320559406 and nAPP2409337860.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 33, Township 17 South, Range 35 East, in Lea County, New Mexico (32.7935801° N, -103.4706964° W) and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO).

On July 21, 2023, corrosion of a flowline resulted in the release of approximately 1 barrel (bbl) of produced water and 1 bbl crude oil onto the surrounding pasture. No fluids were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on July 31, 2023. The release was assigned Incident Number nAPP2320559406.

On March 31, 2024, corrosion of the same flowline resulted in the release of approximately 9 bbls of produced water and 6 bbls crude oil onto the surrounding pasture in the same area as the July 21, 2023, release. A vacuum truck recovered approximately 6 bbls of produced water and 4 bbls of crude oil. Maverick reported the release to the NMOCD on a Form C-141 on April 3, 2024. The release was assigned Incident Number nAPP2409337860.

Since the release occurred in the pasture, compliance with the Cultural Properties Protection (CPP) Rule was required. Ensolum contracted Beaver Creek Archeology to conduct an Archaeological Records Management System (ARMS) review. Based on a review of prior cultural resource surveys that overlap the release extent, no cultural resources were identified within and/or around the release extent requiring

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oversight or modifications to remediation efforts. A copy of the NMSLO Cultural Resources Cover Sheet is included as Appendix A.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The groundwater wells used for depth to groundwater determination are presented on Figure 1 and the well records are provided in Appendix B. The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Site assessment activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six assessment soil samples (SS01 through SS04, SS09, and SS10) were collected around the visible release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the second release. Four assessment soil samples (SS05 through SS08) were collected within the release extent at a depth of 0.5 feet bgs to assess the surface soil within the release. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix C.

The assessment soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories for analysis of the following constituents of concern (COC): BTEX following United States

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Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500.

Laboratory analytical results for assessment soil samples SS01 through SS04, SS09, and SS10, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the release. Laboratory analytical results for assessment soil samples SS05 through SS08, collected within the release extent, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria or reclamation requirements. Based on the laboratory analytical results and visible staining in the release area, excavation and delineation activities were warranted.

EXCAVATION AND DELINEATION ACTIVITIES

Between May 1, 2024 and May 14, 2024, Ensolum personnel were at the Site to oversee excavation of impacted soil. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Excavation activities were performed using a hydro vacuum, track-mounted backhoe, and transport vehicles. The excavation was completed to depths ranging from 4 feet to 4.5 feet bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS26 were collected from the floor of the excavation at depths ranging from 4 feet to 4.5 feet bgs. Composite soil samples SW01 through SW08 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3. Photographic documentation was completed during the excavation activities and a photographic log is included in Appendix C.

One pothole (PH01) was advanced within the open excavation to a depth of 11.5 feet bgs. Soil from the pothole was field screened for VOCs and chloride. Final depth of the pothole was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria. Field screening results and observations for the pothole were logged on a lithologic soil sampling log, which is included in Appendix D. Discrete delineation soil samples were selected from the pothole for laboratory analysis; the sample with the highest field screening result and the sample from the final pothole depth. The pothole and delineation soil sample locations are presented on Figure 2. The excavation and delineation soil samples were handled following the same procedures as described above and submitted to Cardinal Laboratories for analysis of BTEX, TPH, and chloride.

Laboratory analytical results for excavation floor samples FS01 through FS26 and excavation sidewall samples SW01 through SW08, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements for samples collected in the top four feet.

Laboratory analytical results for the delineation samples collected from pothole PH01 indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the final depth delineation sample, collected at a depth of 11.5 feet, was compliant with the most stringent Table I Closure Criteria and provided vertical delineation of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix E.

The excavation measured approximately 4,800 square feet in areal extent. A total of approximately 1,400 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was

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transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured topsoil. One representative 5-point composite sample (BF01) was collected from the backfill topsoil material. The backfill soil sample was handled and analyzed following the same procedures as described above. Laboratory analytical results for the backfill soil sample confirmed compliance with the NMOCD requirement for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included as Appendix D.

Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. The disturbed pasture area will be seeded during June 2024 with the NMSLO loamy sites seed mix at the rate specified in pounds of pure live seed (PLS) per acre.

Common Name (Variety)	PLS/Acre
Black Grama (VNS, Southern)	1.0
Blue Grama (Lovington)	1.0
Sideoats Grama (Vaughn, El Reno)	4.0
Sand Dropseed (VNS, Southern)	2.0
Alkali Sacaton (VNS, Southern)	1.0
Little Bluestem (Cimarron, Pastura)	1.5

The seed mix will be distributed using a drill seeder. Photographs of the reclaimed excavation area are provided in Appendix B.

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and site degradation, and to monitor for and treat invasive and noxious weed species.

- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Annual inspections will take place at the location to assess revegetation progress.
- If necessary, an additional application of the NMSLO seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the July 21, 2023, and March 31, 2024, releases of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations

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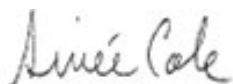
Page 5

were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater is estimated to be between 51 feet and 100 feet bgs and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Numbers nAPP2320559406 and nAPP2409337860.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC



Aimee Cole
Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources, LLC
New Mexico State Land Office

Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	NMSLO Cultural Resources Cover Sheet
Appendix B	Referenced Well Records
Appendix C	Photographic Log
Appendix D	Lithologic Soil Sampling Log
Appendix E	Laboratory Analytical Reports & Chain of Custody Documentation
Appendix F	NMOCD Correspondence

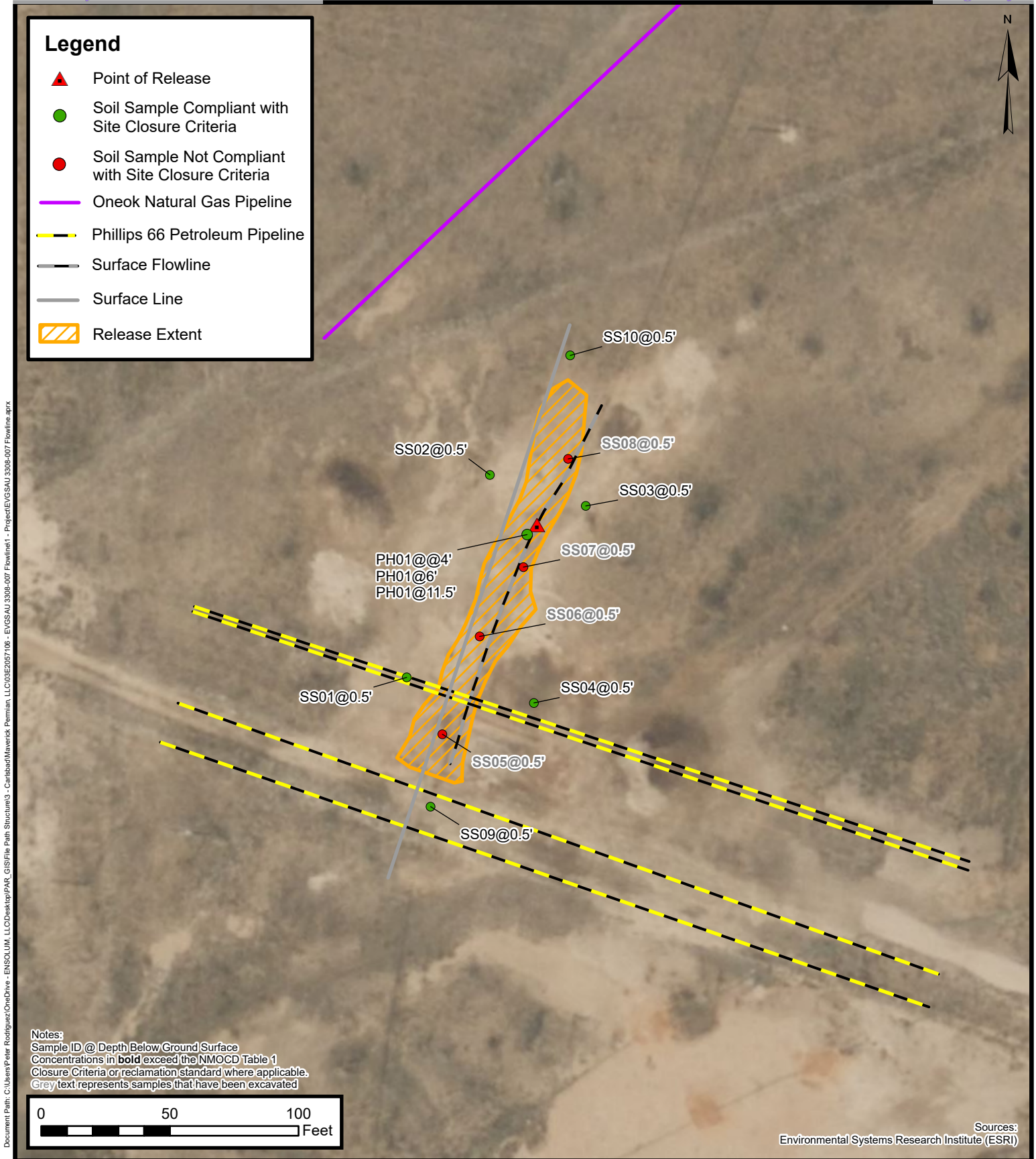


FIGURES



E-33-17S-35E
Lea County, New Mexico

1



Assessment Soil Sample Locations

EVGSAU 3308-007 Flowline

Maverick Permian, LLC

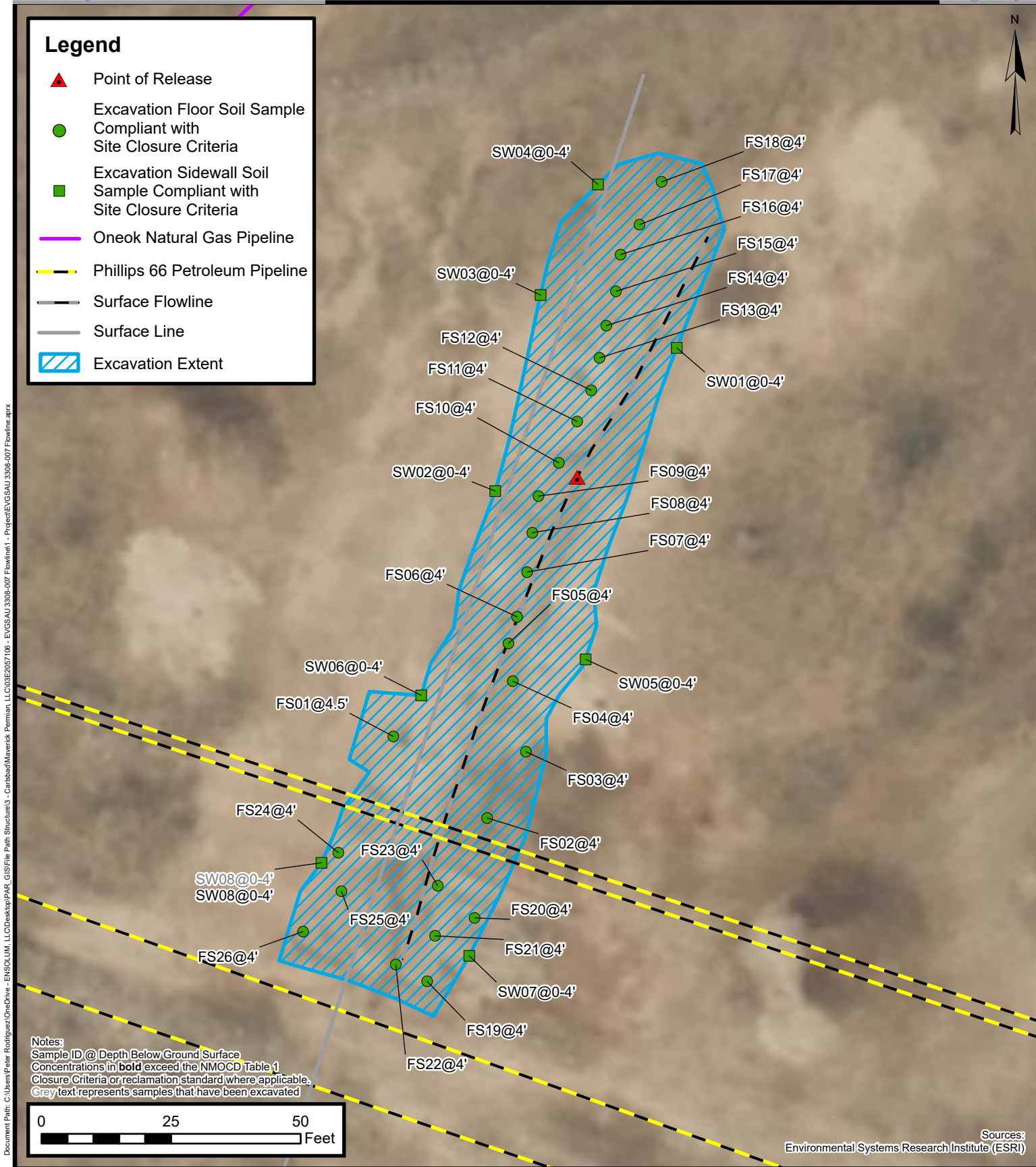
Incident Number: nAPP2320559406 and nAPP2409337860

E-33-17S-35E

Lea County, New Mexico

FIGURE

2



Excavation Soil Sample Locations

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Lea County, New Mexico

FIGURE

3





TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU 3308-007 Flowline Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirement for the top four feet			NE	NE	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	04/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	04/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	04/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	04/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS05	03/14/2024	0.5	<0.050	5.74	266	37,900	7,600	38,166	45,766	36,000
SS06	03/14/2024	0.5	<0.050	<0.300	<10.0	6,450	2,340	6,450	8,790	1,710
SS07	03/14/2024	0.5	<0.050	<0.300	<10.0	19.5	12.7	19.5	32.2	6,000
SS08	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,400
SS09	04/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS10	04/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
Delineation Soil Samples										
PH01	04/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,330
PH01	04/17/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,720
PH01	05/08/2024	11.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
Excavation Floor Soil Samples										
FS01	05/01/2024	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520
FS02	05/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS03	05/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,550
FS04	05/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,130
FS05	05/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,040
FS06	05/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,880
FS07	05/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,240
FS08	05/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,560



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 EVGSAU 3308-007 Flowline
 Maverick Permian, LLC
 Lea County, New Mexico

Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirement for the top four feet			NE	NE	NE	NE	NE	NE	100	600
FS09	05/01/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,800
FS10	05/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,800
FS11	05/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,760
FS12	05/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,000
FS13	05/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,600
FS14	05/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,880
FS15	05/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,280
FS16	05/02/2024	4	<0.050	<0.300	<10.0	12.7	<10.0	12.7	12.7	2,040
FS17	05/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,360
FS18	05/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS19	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS20	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS21	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
FS22	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,560
FS23	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,760
FS24	05/09/2024	4	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	2,280
FS25	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,800
FS26	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
Excavation Sidewall Soil Samples										
SW01*	4/23/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW02*	4/29/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW03*	4/23/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW04*	4/23/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW05*	4/29/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU 3308-007 Flowline Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirement for the top four feet			NE	NE	NE	NE	NE	NE	100	600
SW06*	5/1/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW07*	5/9/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW08*	5/10/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
SW08*	5/14/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
Backfill Soil Sample										
BF01	5/7/2024	-	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

NA: Not Analyzed

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation requirement in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.



APPENDIX A

NMSLO Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

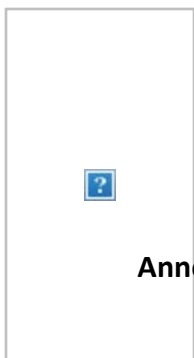
From: [Raina Hanley](#)
To: [Aimee Cole](#)
Subject: Fw: multiple ARMS submissions for Ensolum on behalf of Maverick Permian (BCA24-1707-1709)
Date: Friday, April 5, 2024 12:23:57 PM
Attachments: [image002.jpg](#)
[image005.jpg](#)
[image007.jpg](#)
[image008.jpg](#)

[**EXTERNAL EMAIL**]

From: Curry, Anne R. <acurry@slo.state.nm.us>
Sent: Friday, April 5, 2024 9:46 AM
To: Raina Hanley <RHanley@bcarch.org>
Subject: RE: multiple ARMS submissions for Ensolum on behalf of Maverick Permian (BCA24-1707-1709)

Good morning,

Thank you for the submission of the three attached Cover Sheets. Since the proposed remediation activities will take place in areas that have been covered by archaeological survey and/or have been previously disturbed, Ensolum/ Maverick Permian is free to move forward with remediation. Please reach out if you have additional questions-



Anne Curry


*Archaeologist
Cultural Resources Office*

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From: Raina Hanley <RHanley@bcarch.org>

Sent: Thursday, March 14, 2024 10:39 AM

To: CRO Info <croinfo@slo.state.nm.us>

Subject: [EXTERNAL] multiple ARMS submissions for Ensolum on behalf of Maverick Permian (BCA24-1707-1709)

Good Morning,

Attached please find the following cultural resource cover sheets for three ARMS reviews completed and submitted through the CPP for Ensolum on behalf of Maverick Permian:

- Maverick Permians's Leamex 018 (BCA24-1707)
- Maverick Permians's EVGSAU 3308-007 Flowline (#1) (BCA24-1708)
- Maverick Permians's EVGSAU 3308-007 Flowline (#2) (BCA24-1709)

Please let us know if you have any questions or need any additional information.

Thank you,
Raina

Raina Hanley
Chief Operating Officer

Beaver Creek Archaeology & Environmental
1632 Capitol Way
Bismarck, ND 58501
Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental
712 West Quay Avenue
Artesia, NM 88210
Ph: (575) 746-6142 | Fx: (701) 663-5589



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APPENDIX B

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	L 04578				33	17S	35E	643962	3629198*		
<hr/>											
Driller License: 99		Driller Company:				O.R. MUSSELWHITE WATER WELL SE					
Driller Name:											
Drill Start Date: 01/12/1961		Drill Finish Date:				01/14/1961		Plug Date:		01/14/1961	
Log File Date: 01/17/1961		PCW Rcv Date:						Source:		Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:			
Casing Size: 6.63		Depth Well:				126 feet		Depth Water:		60 feet	
<hr/>											
Water Bearing Stratifications:					Top	Bottom	Description				
					90	126	Sandstone/Gravel/Conglomerate				
<hr/>											
Casing Perforations:					Top	Bottom					
					66	126					

*UTM location was derived from PLSS - see Help

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

5/29/24 11:21 AM

POINT OF DIVERSION SUMMARY



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 04880		2	3	33	17S	35E	643757	3629002*	

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date: 04/18/1962 **Drill Finish Date:** 04/18/1962 **Plug Date:** 06/14/1962

Log File Date: 05/28/1962 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 7.00 **Depth Well:** 145 feet **Depth Water:** 90 feet

Water Bearing Stratifications:	Top	Bottom	Description
	90	145	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	145

*UTM location was derived from PLSS - see Help

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

4/3/24 1:24 PM

POINT OF DIVERSION SUMMARY



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Data Category:

Groundwater

▼


Geographic Area:

United States

▼

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Agency code = usgs
site_no list =

- 324740103282801

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324740103282801 17S.35E.32.21142

Lea County, New Mexico
Latitude 32°47'51", Longitude 103°28'39" NAD27
Land-surface elevation 3,965.00 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1976-03-04			D62610		3895.44	NGVD29	1	Z			A
1976-03-04			D62611		3896.93	NAVD88	1	Z			A
1976-03-04			D72019	69.56			1	Z			A
1981-01-20			D62610		3892.69	NGVD29	1	Z			A
1981-01-20			D62611		3894.18	NAVD88	1	Z			A
1981-01-20			D72019	72.31			1	Z			A
1986-04-04			D62610		3881.25	NGVD29	1	Z			A
1986-04-04			D62611		3882.74	NAVD88	1	Z			A
1986-04-04			D72019	83.75			1	Z			A
1990-12-20			D62610		3878.92	NGVD29	1	Z			A
1990-12-20			D62611		3880.41	NAVD88	1	Z			A
1990-12-20			D72019	86.08			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2024-05-29 13:30:15 EDT

0.29 0.22 nadww01






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USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	United States	GO

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Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324720103280101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324720103280101 17S.35E.33.13321

Lea County, New Mexico

Latitude 32°47'35", Longitude 103°28'10" NAD27

Land-surface elevation 3,952.00 feet above NGVD29

The depth of the well is 220 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1981-01-21			D	62610	3890.82	NGVD29	1	Z			A
1981-01-21			D	62611	3892.31	NAVD88	1	Z			A
1981-01-21			D	72019	61.18		1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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APPENDIX C

Photographic Log

**Photographic Log**

Maverick Permian, LLC

EVGSAU 3308-007 Flowline

Incident Numbers nAPP2320559406 and
nAPP2409337860

Photograph 1

Date: July 21, 2023

Description: Initial release

View: North



Photograph 2

Date: 4/11/2024

Description: Release area

View: North



Photograph 3

Date: 5/3/2024

Description: Excavation activities

View: North



Photograph 4

Date: 5/8/2024

Description: Excavation activities

View: North

**Photographic Log**

Maverick Permian, LLC

EVGSAU 3308-007 Flowline

Incident Numbers nAPP2320559406 and
nAPP2409337860

Photograph 5
Description Excavation
View: West

Date: 5-09-2024



Photograph 6
Description: Excavation
View: Northwest

Date: 5/20/2024



Photograph 7
Description Backfilled/reclaimed excavation area
View: West

Date: 6/11/2024




Photograph 8
Description: Backfilled/reclaimed excavation area
View: Northwest

Date: 6/11/2024



APPENDIX D

Lithologic Soil Sampling Logs

<div></div>								Sample Name: PH01		Date: 04/17/2024	
								Site Name: EVGSAU 3308-007 Flowline			
								Incident Number: nAPP2314650185			
								Job Number: 03E2057106			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Mario Sarkis		Method: Hand auger	
Coordinates: 32.793668, -103.470659								Hole Diameter: ~3"		Total Depth: 11.5 ft bgs	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
								Open Excavation 0 to 4 feet bgs			
Dry	1,664	0.8	N	PH01	4	4	PT	Loose, very dark brown, medium to very fine grain size, dry			
Dry	3,304	0.8	N	PH01	5	5					
Dry	5,236	0.8	N	PH01	6	6	Caliche	Caliche/Sedimentary Rock			
Dry	2,200	0.8	N	PH01	7.5	7					
							Rock	Sedimentary Rock			
Dry	464	0.7	N	PH01	11.5	11.5					
								TD at 11.5 ft bgs			



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 19, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (07-2023)

Enclosed are the results of analyses for samples received by the laboratory on 03/14/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 01 0.5' (H241333-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	206	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	213	107	200	0.106	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 02 0.5' (H241333-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.22	111	2.00	1.58		
Toluene*	<0.050	0.050	03/15/2024	ND	2.19	110	2.00	1.40		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.13	106	2.00	1.38		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.34	106	6.00	0.650		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	206	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	213	107	200	0.106	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 03 0.5' (H241333-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	0.333		
Toluene*	<0.050	0.050	03/15/2024	ND	2.24	112	2.00	5.30		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.32	116	2.00	7.83		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.04	117	6.00	9.03		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	206	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	213	107	200	0.106	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 04 0.5' (H241333-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	0.333	
Toluene*	<0.050	0.050	03/15/2024	ND	2.24	112	2.00	5.30	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.32	116	2.00	7.83	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.04	117	6.00	9.03	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	206	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	213	107	200	0.106	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 05 0.5' (H241333-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2024	ND	2.16	108	2.00	0.333		
Toluene*	0.101	0.050	03/16/2024	ND	2.24	112	2.00	5.30	GC-NC1	
Ethylbenzene*	1.24	0.050	03/16/2024	ND	2.32	116	2.00	7.83		
Total Xylenes*	4.39	0.150	03/16/2024	ND	7.04	117	6.00	9.03		
Total BTEX	5.74	0.300	03/16/2024	ND						GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36000	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	266	50.0	03/15/2024	ND	206	103	200	3.17		
DRO >C10-C28*	37900	50.0	03/15/2024	ND	213	107	200	0.106		
EXT DRO >C28-C36	7600	50.0	03/15/2024	ND						

Surrogate: 1-Chlorooctane 205 % 48.2-134

Surrogate: 1-Chlorooctadecane 839 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 06 0.5' (H241333-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	0.333		
Toluene*	<0.050	0.050	03/15/2024	ND	2.24	112	2.00	5.30		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.32	116	2.00	7.83		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.04	117	6.00	9.03		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	206	103	200	3.17	
DRO >C10-C28*	6450	10.0	03/15/2024	ND	213	107	200	0.106	
EXT DRO >C28-C36	2340	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 191 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 07 0.5' (H241333-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	0.333		
Toluene*	<0.050	0.050	03/15/2024	ND	2.24	112	2.00	5.30		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.32	116	2.00	7.83		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.04	117	6.00	9.03		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	206	103	200	3.17	
DRO >C10-C28*	19.5	10.0	03/15/2024	ND	213	107	200	0.106	
EXT DRO >C28-C36	12.7	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/14/2024	Sampling Date:	03/14/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK		

Sample ID: SS 08 0.5' (H241333-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	0.333		
Toluene*	<0.050	0.050	03/15/2024	ND	2.24	112	2.00	5.30		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.32	116	2.00	7.83		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	7.04	117	6.00	9.03		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	03/15/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	206	103	200	3.17	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	213	107	200	0.106	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC										BILL TO										ANALYSIS REQUEST									
Project Manager: Aimee Cole										P.O. #:																			
Address: 601 N Marlenfeld Street, Suite 400										Aimee Cole																			
City: Midland										State: TX										Zip: 79701									
Phone #: 720-384-7365										Fax #:										Address: Elysium, LLC									
Project #: 03E2057106										Project Owner:										City:									
Project Name: EUGSAU 3308-007 Flowline Release (07-2023)										State:										Zip:									
Project Location:										Phone #																			
Sampler Name: NOT Noah Baker										Fax #:																			
FOR LAB USE ONLY										PRESERV										SAMPLING									
Lab I.D.										Sample I.D.										Depth (feet)									
1										501										0.5'									
2										502										0.5'									
3										503										0.5'									
4										504										0.5'									
5										505										0.5'									
6										506										0.5'									
7										507										0.5'									
8										508										0.5'									
NE										W										3/14/24									
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Relinquished By: <i>John Paul</i>										Date: 3-14-24										Received By: <i>Heather Blalock</i>									
Relinquished By: <i>John Paul</i>										Time: 1:00										Received By: <i>Heather Blalock</i>									
Date: <i>3-14-24</i>										Time: <i>1:00</i>										Received By: <i>Heather Blalock</i>									
Delivered By: (Circle One)										Observed Temp. °C: 4.3										Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Sampler - UPS - Bus - Other:										Corrected Temp. °C:										Checked By: <i>AP</i>									
FORM-000 FK-3-27-10/07/21										Turnaround Time: <i>Standard</i>										Bacteria (only) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
										Thermometer ID: <i>#16</i>										Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
										Correction Factor: <i>0.0</i>										Observed Temp. °C: <i>4.3</i>									
										Corrected Temp. °C: <i>4.3</i>																			
										Remarks: <i>q (0100) PUGSQU, COM</i>																			

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 18, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (07-2023)

Enclosed are the results of analyses for samples received by the laboratory on 04/17/24 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/17/2024	Sampling Date:	04/17/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: PH 01 4.0' (H242048-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/17/2024	ND	2.07	103	2.00	2.17		
Toluene*	<0.050	0.050	04/17/2024	ND	2.00	100	2.00	2.27		
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	1.94	97.2	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/17/2024	ND	5.68	94.7	6.00	1.99		
Total BTEx	<0.300	0.300	04/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	04/18/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2024	ND	207	103	200	1.09	
DRO >C10-C28*	<10.0	10.0	04/18/2024	ND	216	108	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/17/2024	Sampling Date:	04/17/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: PH 01 6.0' (H242048-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2024	ND	2.07	103	2.00	2.17	
Toluene*	<0.050	0.050	04/17/2024	ND	2.00	100	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	1.94	97.2	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/17/2024	ND	5.68	94.7	6.00	1.99	
Total BTEX	<0.300	0.300	04/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	04/18/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2024	ND	207	103	200	1.09	
DRO >C10-C28*	<10.0	10.0	04/18/2024	ND	216	108	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 23, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (07-2023)

Enclosed are the results of analyses for samples received by the laboratory on 04/17/24 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/17/2024	Sampling Date:	04/17/2024
Reported:	04/23/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SS 01 0.5' (H242052-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48		
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91		
Total BTEX	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2024	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	196	97.8	200	3.94	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	197	98.5	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/17/2024	Sampling Date:	04/17/2024
Reported:	04/23/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SS 02 0.5' (H242052-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48		
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91		
Total BTEX	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2024	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/17/2024	Sampling Date:	04/17/2024
Reported:	04/23/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SS 03 0.5' (H242052-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48		
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91		
Total BTEX	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2024	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/17/2024	Sampling Date:	04/17/2024
Reported:	04/23/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SS 04 0.5' (H242052-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48		
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91		
Total BTEX	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/19/2024	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/17/2024	Sampling Date:	04/17/2024
Reported:	04/23/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SS 09 0.5' (H242052-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48		
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91		
Total BTEX	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/19/2024	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/17/2024	Sampling Date:	04/17/2024
Reported:	04/23/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SS 10 0.5' (H242052-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48		
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91		
Total BTEX	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/19/2024	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Aimee Cole
Address: 3122 National Parks Hwy
City: Carlsbad
State: NM Zip: 88220
Phone #: (720) 384-7365 Fax #: 384-7365
Project #: 03E205706 Project Owner:
Project Name: EV654u 3308-007 Flowline Release
Project Location: 33.7935-103.4726
Sampler Name: Mario Salkis

BILL TO
P.O. #: Company: ENSOLUM, LLC
Attn: Aimee Cole
Address:
City:
State: Zip:
Phone #: 780-384-7365
Fax #:

CASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the fees. All claims including those for negligence and any other cause whatsoever, shall be limited to the amount paid by the client for the fees.																				
H242004		Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chlorides
	1	5501	0.5	G	1											4/17/24	0924			
	2	5502	0.5	G	1											4/17/24	0930			
	3	5503	0.5	G	1											4/17/24	0933			
	4	5504	0.5	G	1											4/17/24	1028			
	5	5509	0.5	G	1											4/17/24	1030			
	6	5510	0.5	G	1											4/17/24	0946			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 4/17/24
Received By: *[Signature]* Date: 4/17/24
Time: 1518
Remarks: *aloke@ensolum.com/msalkis@ensolum.com*

Delivered By: (Circle One) Observed Temp. °C: 10.2 Sample Condition: Cool Intact ☒ Yes ☐ No
Sampler - UPS - Bus - Other: Corrected Temp. °C: ☐ Yes ☐ No
CHECKED BY: *[Signature]*
Turnaround Time: Standard ☒ Rush ☐
Thermometer ID: #443-#140
Correction Factor: -0.3°C
Bacteria (only) Sample Condition: Cool Intact ☐ Yes ☐ No
Corrected Temp. °C:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 29, 2024

AIMEE COLE
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (07-2023)

Enclosed are the results of analyses for samples received by the laboratory on 04/23/24 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/29/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SW 01 0-4' (H242161-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2024	ND	2.16	108	2.00	5.91	
Toluene*	<0.050	0.050	04/24/2024	ND	2.10	105	2.00	6.19	
Ethylbenzene*	<0.050	0.050	04/24/2024	ND	2.12	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	04/24/2024	ND	6.42	107	6.00	5.95	
Total BTX	<0.300	0.300	04/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	197	98.7	200	0.715	
DRO >C10-C28*	<10.0	10.0	04/24/2024	ND	192	96.1	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/29/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SW 03 0-4' (H242161-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2024	ND	2.16	108	2.00	5.91		
Toluene*	<0.050	0.050	04/24/2024	ND	2.10	105	2.00	6.19		
Ethylbenzene*	<0.050	0.050	04/24/2024	ND	2.12	106	2.00	5.35		
Total Xylenes*	<0.150	0.150	04/24/2024	ND	6.42	107	6.00	5.95		
Total BTEx	<0.300	0.300	04/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	197	98.7	200	0.715	
DRO >C10-C28*	<10.0	10.0	04/24/2024	ND	192	96.1	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/29/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4706		

Sample ID: SW 04 0-4' (H242161-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2024	ND	2.16	108	2.00	5.91		
Toluene*	<0.050	0.050	04/24/2024	ND	2.10	105	2.00	6.19		
Ethylbenzene*	<0.050	0.050	04/24/2024	ND	2.12	106	2.00	5.35		
Total Xylenes*	<0.150	0.150	04/24/2024	ND	6.42	107	6.00	5.95		
Total BTEX	<0.300	0.300	04/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	197	98.7	200	0.715		
DRO >C10-C28*	<10.0	10.0	04/24/2024	ND	192	96.1	200	1.52		
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND						

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: (720) 384-7365

Fax #:

Project #: 03E2057106

Project Owner:

Project Name: EVGSA 3308-007 Pipeline Release

Project Location: 32.7935, -103.4706

Sampler Name: Mario Sarrhin

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Ensolum, LLC

Attn: Aimee Cole

Address:

City:

State: Zip:

Phone #: 720-384-7365

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

TPH

Chlorides

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Relinquished By:

Received By:

Date: 4/25/24

Time: 1536

Date:

Received By:

Time:

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Yes No

Thermometer ID

Correction Factor

Yes No

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 06, 2024

AIMEE COLE
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (07-2023)

Enclosed are the results of analyses for samples received by the laboratory on 04/30/24 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: SW 02 0-4' (H242318-01)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.12	106	2.00	2.70	
Toluene*	<0.050	0.050	05/03/2024	ND	2.18	109	2.00	1.64	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.18	109	2.00	1.25	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.64	111	6.00	1.17	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/04/2024	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	207	104	200	0.601	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	200	99.8	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: SW 05 0-4' (H242318-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.12	106	2.00	2.70		
Toluene*	<0.050	0.050	05/03/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.64	111	6.00	1.17		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/04/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	207	104	200	0.601	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	200	99.8	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 03, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/01/24 16:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/01/2024	Sampling Date:	05/01/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Shalyn Rodriguez
Project Location:	32.7935, -103.4706		

Sample ID: FS 01 4.5 (H242348-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 02 4 (H242348-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 03 4 (H242348-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 04 4 (H242348-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2130	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 05 4 (H242348-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 06 4 (H242348-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 07 4 (H242348-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01	
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 4 (H242348-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 09 4 (H242348-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/01/2024
 Reported: 05/03/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4706

Sampling Date: 05/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 0-4 (H242348-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/02/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	209	105	200	0.246	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	212	106	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: (720) 384-7365

Project #: 03E2057106

Project Name: EVGS HV 3308-007 Flowline Release

Project Location: 38.7935, -103.4706

Sampler Name: Mario Salkis

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Ensolum, LLC

Attn: Aimee Cole

Address:

City:

State:

Phone #: 720-384-7365

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX					PRESERV.		SAMPLING		ANALYSIS REQUEST				
							GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
12443348	FS01	4.5	C	I												DATE	TIME	BT EX	TP H	CI-
	FS02	4	C	I												5/1/24	1337			
	FS03	4	C	I													1333			
	FS04	4	C	I													1337			
	FS05	4	C	I													1342			
	FS06	4	C	I													1347			
	FS07	4	C	I													1351			
	FS08	4	C	I													1353			
	FS09	4	C	I													1356			
	FS06	4	C	I													1359			
	SW06	0-4	C	I													0952			

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Relinquished By:

Date: 5/1/24
Time: 1403

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Date: 5/1/24
Time: 1403



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 06, 2024

AIMEE COLE
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (07-2023)

Enclosed are the results of analyses for samples received by the laboratory on 05/02/24 14:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 10 4' (H242378-01)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	1.95	97.3	2.00	0.0331	
Toluene*	<0.050	0.050	05/03/2024	ND	1.99	99.4	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.01	101	2.00	0.795	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	5.85	97.5	6.00	0.994	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	05/06/2024	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 11 4' (H242378-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	1.95	97.3	2.00	0.0331	
Toluene*	<0.050	0.050	05/03/2024	ND	1.99	99.4	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.01	101	2.00	0.795	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	5.85	97.5	6.00	0.994	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	05/06/2024	ND	400	100	400	7.69	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 12 4' (H242378-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	1.95	97.3	2.00	0.0331		
Toluene*	<0.050	0.050	05/03/2024	ND	1.99	99.4	2.00	1.08		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.01	101	2.00	0.795		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	5.85	97.5	6.00	0.994		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	05/06/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 13 4' (H242378-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	1.95	97.3	2.00	0.0331	
Toluene*	<0.050	0.050	05/03/2024	ND	1.99	99.4	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.01	101	2.00	0.795	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	5.85	97.5	6.00	0.994	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	05/06/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 14 4' (H242378-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	1.95	97.3	2.00	0.0331	
Toluene*	<0.050	0.050	05/03/2024	ND	1.99	99.4	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.01	101	2.00	0.795	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	5.85	97.5	6.00	0.994	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	05/06/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 15 4' (H242378-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.01	100	2.00	2.56		
Toluene*	<0.050	0.050	05/03/2024	ND	2.06	103	2.00	0.756		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	108	2.00	1.41		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.47	108	6.00	1.66		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	05/06/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 16 4' (H242378-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.01	100	2.00	2.56		
Toluene*	<0.050	0.050	05/03/2024	ND	2.06	103	2.00	0.756		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	108	2.00	1.41		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.47	108	6.00	1.66		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	05/06/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	12.7	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 17 4' (H242378-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.01	100	2.00	2.56		
Toluene*	<0.050	0.050	05/03/2024	ND	2.06	103	2.00	0.756		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	108	2.00	1.41		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.47	108	6.00	1.66		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	05/06/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: FS 18 4' (H242378-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.01	100	2.00	2.56		
Toluene*	<0.050	0.050	05/03/2024	ND	2.06	103	2.00	0.756		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	108	2.00	1.41		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.47	108	6.00	1.66		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/06/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	107	200	1.91	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	227	114	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC						BILL TO						ANALYSIS REQUEST						
Project Manager: Aimée Cole						P.O. #:												
Address: 3122 National Parks Hwy						Company: ENSOLUM, LLC												
City: Carlsbad						Attn: Aimee Cole												
State: NM Zip: 88220						Address:												
Phone #: (720) 384-7365 Fax #:						City:												
Project #: 03F2057106 Project Owner:						State:												
Project Name: EVGSAV 3308-007 Flowline Release						Zip:												
Project Location: 3A-7935,-103,4708						Phone #: 720-384-7365												
Sample Name: M&N O Salt H ₂ S						Fax #:												
<small>FOR LAB USE ONLY</small>																		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING								
					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :													
					ACID/BASE: ICE / COOL OTHER :													
											DATE	TIME						
H24B378	FS10	4	C	1							5/2/24	1120	V	BTEX	V	TPH	V	CI-
	FS11		C	1								1123	V	V	V	V		
	FS12		C	1								1127	V	V	V	V		
	FS13		C	1								1132	V	V	V	V		
	FS14		C	1								1136	V	V	V	V		
	FS15		C	1								1140	V	V	V	V		
	FS16		C	1								1144	V	V	V	V		
	FS17		C	1								1154	V	V	V	V		
	FS18		C	1								1159	V	V	V	V		
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																		
Relinquished By:						Date: 5/2/24						Received By:						
						Time: 1428						Signature:						
Relinquished By:						Date:						Received By:						
						Time:												
Delivered By: (Circle One)						Observed Temp.: °C						Sample Condition						
Sampler - UPS - Bus - Other:						Corrected Temp.:						Cool Intact						
						7.6°C						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
												<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
												CHECKED BY:						
												(Initials)						
												Turnaround Time:						
												Standard						
												Rush						
												<input checked="" type="checkbox"/>						
												Bacteria (only)						
												Cool Intact						
												<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
												Observed Temp. °C						
												Corrected Temp. °C						
												Remarks:						
												o/e @ensolum.com/MSarah@elsolum.com						



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 09, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: EVGSAU 3308-007 FLOWLINE RELEASE (07-2023)

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 11:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 AIMEE COLE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE (	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.7935,-103.4708		

Sample ID: BF 01 (H242459-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2024	ND	2.17	109	2.00	0.854		
Toluene*	<0.050	0.050	05/07/2024	ND	2.24	112	2.00	0.726		
Ethylbenzene*	<0.050	0.050	05/07/2024	ND	2.23	111	2.00	0.529		
Total Xylenes*	<0.150	0.150	05/07/2024	ND	6.81	114	6.00	0.740		
Total BTEX	<0.300	0.300	05/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2024	ND	200	99.9	200	1.05	
DRO >C10-C28*	<10.0	10.0	05/08/2024	ND	205	102	200	0.402	
EXT DRO >C28-C36	<10.0	10.0	05/08/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

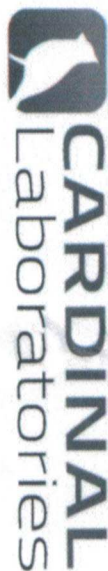
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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 10, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/08/24 12:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/08/2024	Sampling Date:	05/08/2024
Reported:	05/10/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Tamara Oldaker
Project Location:	32.7935, -103.4708		

Sample ID: PH 01 11.5 (H242496-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2024	ND	2.05	102	2.00	6.55	
Toluene*	<0.050	0.050	05/08/2024	ND	1.99	99.4	2.00	6.27	
Ethylbenzene*	<0.050	0.050	05/08/2024	ND	1.94	97.1	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/08/2024	ND	5.69	94.9	6.00	5.92	
Total BTX	<0.300	0.300	05/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/09/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2024	ND	197	98.5	200	0.881	
DRO >C10-C28*	<10.0	10.0	05/08/2024	ND	210	105	200	0.132	
EXT DRO >C28-C36	<10.0	10.0	05/08/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



**101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 13, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/09/24 15:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 4 (H242536-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/10/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	190	94.9	200	2.04	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	187	93.5	200	0.00589	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 4 (H242536-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/10/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	190	94.9	200	2.04	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	187	93.5	200	0.00589	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 21 4 (H242536-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	05/10/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	190	94.9	200	2.04	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	187	93.5	200	0.00589	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 22 4 (H242536-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	05/10/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	190	94.9	200	2.04	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	187	93.5	200	0.00589	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 23 4 (H242536-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	05/10/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	190	94.9	200	2.04	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	187	93.5	200	0.00589	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 24 4 (H242536-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	05/10/2024	ND	416	104	400	3.77	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	188	94.2	200	1.38	
DRO >C10-C28*	10.6	10.0	05/10/2024	ND	208	104	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 4 (H242536-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	05/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	188	94.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	208	104	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 4 (H242536-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	186	92.9	200	1.69	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	177	88.6	200	0.942	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/09/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 07 0-4 (H242536-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2024	ND	2.03	101	2.00	1.57	
Toluene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	0.906	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.06	103	2.00	1.86	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.71	112	6.00	1.91	
Total BTX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2024	ND	186	92.9	200	1.69	
DRO >C10-C28*	<10.0	10.0	05/10/2024	ND	177	88.6	200	0.942	
EXT DRO >C28-C36	<10.0	10.0	05/10/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC					
Project Manager: Almee Cole					
Address: 3122 National Parks Hwy					
City: Carlsbad					
State: NM Zip: 88220					
Phone #: (720) 384-7365 Fax #:					
Project #: 03E20S7106 Project Owner:					
Project Name: EVGSHU 3308-007 Flowline Release					
Project Location: 32.7935,-103.4708					
Sample Name: Mario Sarais					
FOR LAB USE ONLY					
Lab I.D.					
Sample I.D.					
Depth (feet)					
(G)/RAB OR (C)/OMP					
# CONTAINERS					
GROUNDWATER					
WASTEWATER					
SOIL					
OIL					
SLUDGE					
OTHER :					
ACID/BASE:					
ICE / COOL					
OTHER :					
DATE					
TIME					
BTEx					
TPH					
Chlorides					

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Relinquished By: [Signature]

Date: 5/4/24 Received By: [Signature]

Time: 1513

Date: [] Received By: []

Time: []

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: [X] Sample Condition
☒ Yes ☐ No Intact ☒ Yes ☐ No

CHECKED BY: [Signature]

Turnaround Time: \$140 Standard Rush ☒
Thermometer ID #119 Correction Factor .05°C Bacteria (only) Sample Condition
☒ Cool ☐ Intact Observed Temp. °C
☒ Yes ☐ No Corrected Temp. °C

REMARKS:
cole@ensolum.com/mario.sarais@ensolum.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 13, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/10/24 13:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 05/10/2024
 Reported: 05/13/2024
 Project Name: EVGSAU 3308-007 FLOWLINE RELEASE
 Project Number: 03E2057106
 Project Location: 32.7935, -103.4708

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 08 0-4 (H242571-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2024	ND	2.12	106	2.00	1.15	
Toluene*	<0.050	0.050	05/11/2024	ND	2.13	106	2.00	4.37	
Ethylbenzene*	<0.050	0.050	05/11/2024	ND	2.14	107	2.00	4.53	
Total Xylenes*	<0.150	0.150	05/11/2024	ND	6.94	116	6.00	3.11	
Total BTEX	<0.300	0.300	05/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	05/13/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	182	90.9	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/13/2024	ND	193	96.6	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 17, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 3308-007 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 11:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/15/2024	Sampling Date:	05/15/2024
Reported:	05/17/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3308-007 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	03E2057106	Sample Received By:	Alyssa Parras
Project Location:	32.7935, -103.4708		

Sample ID: SW08 0 - 4 (H242671-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.6	2.00	1.20	
Toluene*	<0.050	0.050	05/15/2024	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.42	107	6.00	1.17	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	177	88.3	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	173	86.4	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: (720) 384-7365

Fax #:

Project #: 03E2057106

Project Owner:

Project Name: EVGSAV3308-007 Flowline Release

Project Location: 32.7435, -103.4708

Sampler Name: Mario Sackis

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Ensolum, LLC

Attn: Aimee Cole

Address:

City:

State: Zip:

Phone #: 720-384-7365

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

H242071

SW08

0-4

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

5/15/24

0945

BTEX MS

TPH

Chlorides

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Relinquished By:

Date: 5/15/24

Received By:

Relinquished By:

Date: 1/4/27

Received By:

Time:

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Yes

Thermometer ID

Rush

Cool Intact

Observed Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



APPENDIX F

NMOCD Correspondence

From: [Velez, Nelson, EMNRD](#)
To: [Aimee Cole](#)
Subject: Re: [EXTERNAL] Closure Criteria Pre-Approval - EVGSAU 3308-007 Flowline (nAPP2320559406 & nAPP2409337860)
Date: Tuesday, April 23, 2024 10:36:27 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-e3aqa135.png](#)

[**EXTERNAL EMAIL **]

Good morning Aimee,

Thank you for the correspondence. The conditions pointed out are sufficient; therefore, your request to apply the depth to water >50 but <100 ft. to determine the closure standard is approved.

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

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

Regards,

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



From: Aimee Cole <acole@ensolum.com>
Sent: Tuesday, April 23, 2024 10:18 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] Closure Criteria Pre-Approval - EVGSAU 3308-007 Flowline (nAPP2320559406 & nAPP2409337860)

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

Hi Nelson,

We are in the process of excavating impacted soil at the EVGSAU 3308-007 Flowline site.

- Incident Numbers: nAPP2320559406 & nAPP2409337860.
- GPS Coordinates: 32.7935801, -103.4706964

This email is requesting pre-approval of the Closure Criteria to apply below 4 feet so we can backfill immediately following excavation activities. The release occurred in the pasture; therefore, the top four feet will be excavated to below reclamation requirements. The release will also be laterally and vertically delineated to below the most stringent Table I Closure Criteria.

Please see the below justification and let me know if you approve of applying 1,000 mg/kg GRO+DRO, 2,500mg/kg TPH, and 10,000 mg/kg chloride below 4 feet.

Justification:

- Incident ID nJXK1609752883 is located approximately 300 feet from the subject site and was approved for closure in 04-2024 with the same requested Closure Criteria below 4 feet.
- Multiple water wells surrounding the site indicate a regional depth to groundwater between 51 and 100' (3 wells within 0.5 miles).
- USGS well 324720103280101 and NMOSE wells L-04564/L-04829 are plotted within 1,000 feet of the site. The wells were field verified and were not found.
 - USGS well 324720103280101 is listed as inactive and was not located anywhere in the vicinity of the documented coordinates.
 - NMOSE wells L-04564/L-04829 were located at an oil well and were permitted for secondary recovery of oil (no fresh water well exists).
- No other receptors were identified within the distances specified in 19-15-29 NMAC.

Let me know if you need any additional information or if you would like to discuss.

Thank you!



Aimee Cole
Associate Principal
720-384-7365
Ensolum, LLC
in f X

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 355171

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	355171
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2320559406
Incident Name	NAPP2320559406 EVGSAU 3308 007 @ 0
Incident Type	Other
Incident Status	Reclamation Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EVGSAU 3308 007
Date Release Discovered	07/21/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Crude Oil | Released: 1 BBL | Recovered: 0 BBL | Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 1 BBL | Recovered: 0 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS, Page 2

Action 355171

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	355171
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 06/17/2024
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QUESTIONS, Page 3

Action 355171

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
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	355171
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	4720
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	12.7
GRO+DRO	(EPA SW-846 Method 8015M)	12.7
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	04/17/2024
On what date will (or did) the final sampling or liner inspection occur	05/15/2024
On what date will (or was) the remediation complete(d)	05/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	4800
What is the estimated volume (in cubic yards) that will be reclaimed	1400
What is the estimated surface area (in square feet) that will be remediated	4800
What is the estimated volume (in cubic yards) that will be remediated	1400

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 355171

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	355171
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 06/17/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 355171

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 355171
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 355171

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
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Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	333519
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/17/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4800
What was the total volume (cubic yards) remediated	1400
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4800
What was the total volume (in cubic yards) reclaimed	1400
Summarize any additional remediation activities not included by answers (above)	The Closure Request and sampling notifications are for two overlapping releases: Incident Number nAPP2320559406 and nAPP2409337860

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

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 06/17/2024
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QUESTIONS, Page 7

Action 355171

QUESTIONS (continued)

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	Action Number:	355171
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	4800
What was the total volume of replacement material (in cubic yards) for this site	1400

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	06/28/2024

Summarize any additional reclamation activities not included by answers (above)	The excavation was backfilled with clean, locally procured topsoil and contoured to match the surrounding topography. The disturbed area will be seeded with a NMSLO approved seed mix.
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 06/17/2024
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QUESTIONS, Page 8

Action 355171

QUESTIONS (continued)

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	Action Number: 355171
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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CONDITIONS

Action 355171

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
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	Action Number:
	355171
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	7/22/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/22/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	7/22/2024