ENSOLUM

August 9, 2023

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
Cone Jalmat South Satellite Header
Incident Number NAPP2301881992
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Cone Jalmat South Satellite Header (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water 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 NAPP2301881992.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 25, Township 22 South, Range 35 East, in Lea County, New Mexico (32.36785° N, -103.32104° W) and is associated with oil and gas exploration and production operations on private land.

On January 7, 2023, internal corrosion on the main line from the header resulted in the release of approximately 5.85 barrels (bbls) of crude oil and 13.66 bbls of produced water onto the surrounding pasture. No released 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 January 16, 2023. The release was assigned Incident Number NAPP2301881992.

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 desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well J-00040-POD 1, located approximately 0.73 miles northeast of the Site. The well was drilled during July 2019 to a depth of 800

feet bgs and has a reported depth to groundwater of 270 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The Site is greater than 300 feet from a continuously flowing or significant watercourse. 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: 20,000 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

On January 10, 2023, site assessment activities were completed at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Assessment soil samples SS01 through SS07 were collected within and around the release extent at a depth of 0.5 feet bgs to confirm the lateral extent of 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 B.

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 Eurofins Laboratories for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for assessment soil samples SS01 through SS03, collected within the release extent, indicated that TPH and chloride concentrations exceeded the Site Closure Criteria or reclamation requirements. Laboratory analytical results for assessment soil samples SS04 through SS07, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and provided lateral definition of the release. Based on visible staining in the release area and laboratory analytical results for the assessment soil samples, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between July 26, 2023 and August 2, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil as indicated by visible staining in the release area and laboratory analytical results for the assessment soil samples. To direct excavation activities, soil was field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Excavation activities were performed utilizing a track-mounted backhoe and transport vehicles. The excavation was completed to depths ranging from 3 feet to 10 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 FS21 were collected from the floor of the excavation at depths ranging from 3 feet to 10 feet bgs. Composite soil samples SW01 through SW12, SW04A, and SW11A were collected from the sidewalls of the excavation at depths ranging from the ground surface to 10 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS21 and excavation sidewall samples SW01 through SW03, SW04A, SW05 through SW10, SW11A, and SW12, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Laboratory analytical results for excavation sidewall samples SW04 and SW11 initially exceeded the reclamation requirement for TPH or chloride; additional soil was removed from these areas and subsequent sidewall samples SW04A and SW11A were compliant. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 4,000 square feet in areal extent. A total of approximately 1,325 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was 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.

CLOSURE REQUEST

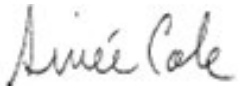
Site assessment and excavation activities were conducted at the Site to address the January 7, 2023, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Based on the laboratory analytical results, no further remediation is required. Maverick backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 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 NAPP2301881992. NMOCD Notifications are included in Appendix D and the final Form C-141 is included in Appendix E.

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

Sincerely,
Ensolum, LLC

Julianna Falcomata
Staff Geologist



Aimee Cole
Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources

Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment and Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain of Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final C-141

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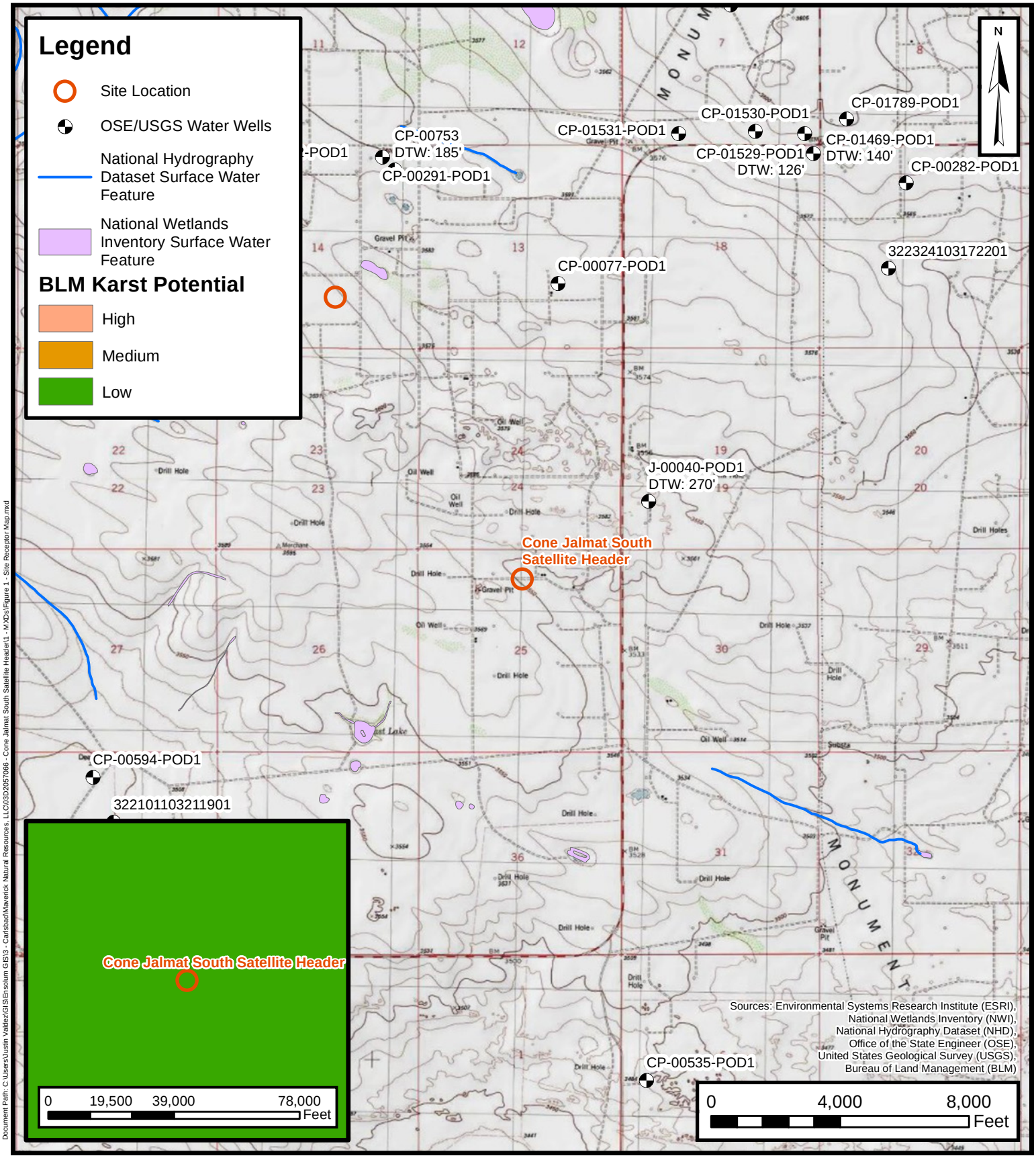
FIGURES



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\3 - Carlsbad\Maverick Natural Resources, LLC\03D2057066 - Cone Jalmat South Satellite Header\r1 - MXDs\Figure 1 - Site Receptor Map.mxd

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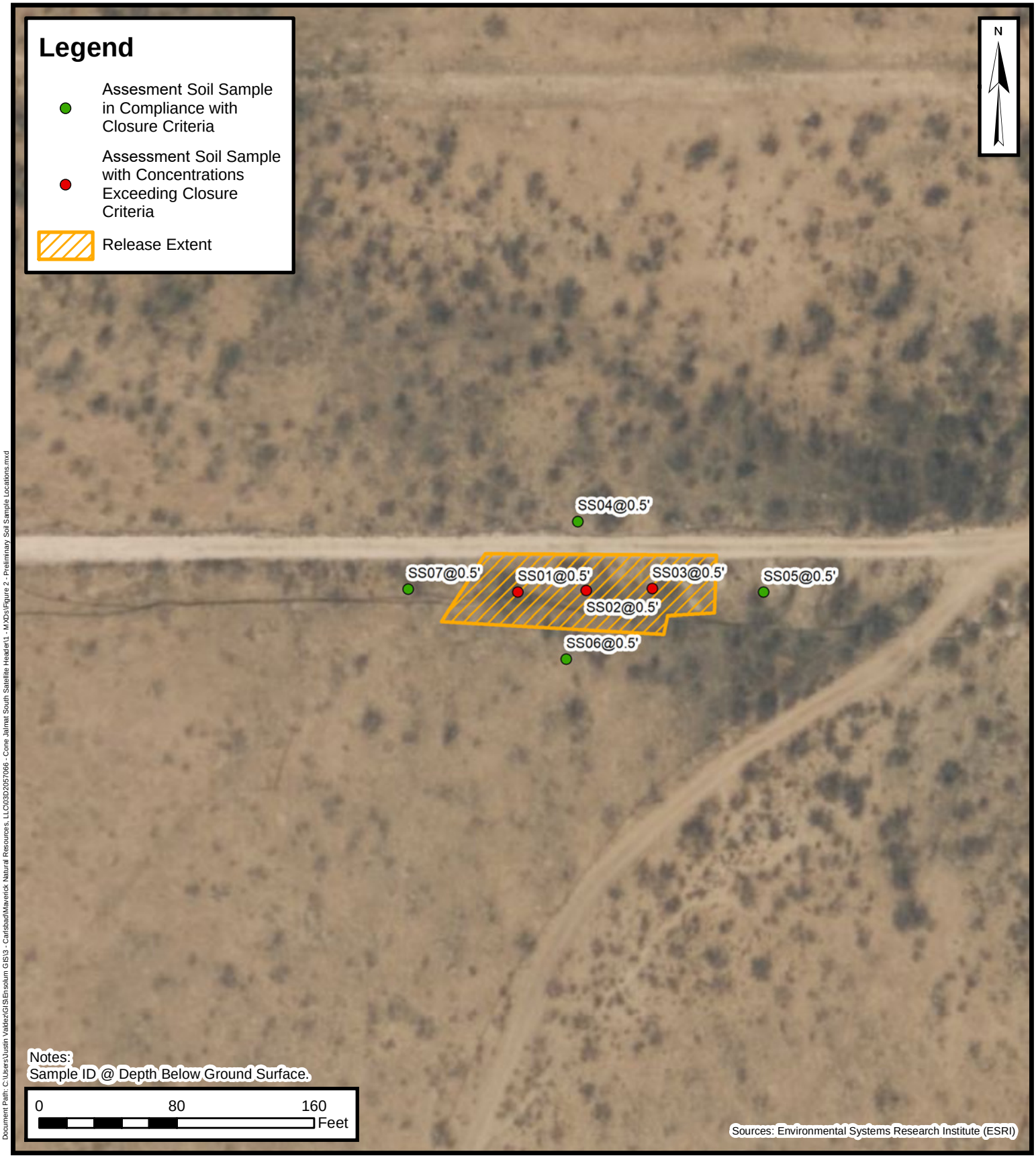
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Maverick Permian, LLC
Cone Jalmat South Satellite Header
Incident Number: NAPP2301881992
Unit B, Sec 25, T22S, 35E
Lea County, New Mexico

FIGURE
1



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\3 - Carlsbad\Maverick Natural Resources, LLC\03D2057066 - Cone Jalmat South Satellite Header\1 - MXDs\Figure 2 - Preliminary Soil Sample Locations.mxd

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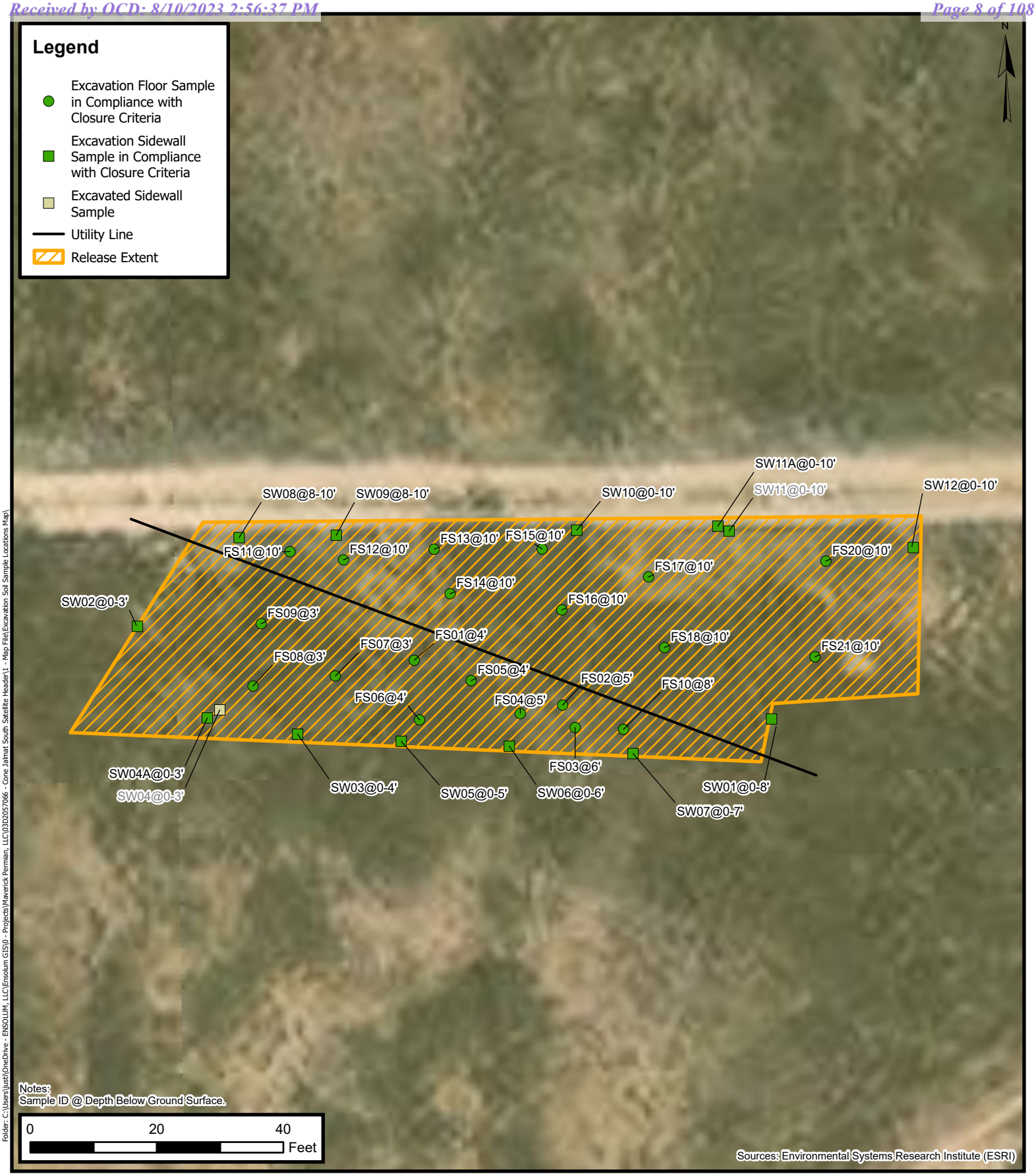
Preliminary Soil Sample Locations

Maverick Permian, LLC
Cone Jalmat South Satellite Header
Incident Number: NAPP2301881992
Unit B, Sec 25, T22S, 35E
Lea County, New Mexico

FIGURE
2



Folder: C:\Users\just\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Maverick Permian, LLC\03202057066 - Cone Jalmat South Satellite Header\1 - Map File\Excavation Soil Sample Locations Map\

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Excavation Soil Sample Locations

Maverick Permian, LLC
Cone Jalmat South Satellite Header
Incident Number: NAPP230188199
Unit B, Sec 25, T22S, 35E
Lea County, New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Cone Jalmat South Satellite Header
Maverick Permian, LLC
Lea County, New Mexico

Sample Designation	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 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Assessment Soil Samples										
SS01	01/10/2023	0.5	<0.0402	7.49	252	408	<49.9	**660**	**660**	**1,360**
SS02	01/10/2023	0.5	0.189	8.53	4,980	3,640	<250	**8,620**	**8,620**	**4,340**
SS03	01/10/2023	0.5	<0.0398	8.93	2,810	3,830	<249	**6,640**	**6,640**	**1,850**
SS04	01/10/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	84.4
SS05	01/10/2023	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	72.6
SS06	01/10/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	69.3
SS07	01/10/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	90.6
Excavation Floor Soil Samples										
FS01	7/26/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS02	7/26/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS03	7/26/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS04	7/26/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
FS05	7/26/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS06	7/26/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS07	7/26/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS08	7/26/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS09	7/26/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS10	7/26/2023	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS11	7/27/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS12	7/27/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS13	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS14	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS15	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS16	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Cone Jalmat South Satellite Header
Maverick Permian, LLC
Lea County, New Mexico

Sample Designation	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 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
FS17	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS18	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS19	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS20	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS21	7/31/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
Excavation Sidewall Soil Samples										
SW01	7/26/2023	0 - 8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW02	7/26/2023	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW03	7/26/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW04	7/26/2023	0 - 3	<0.050	<0.300	<10.0	164	63.9	164	**227.9**	32.0
SW04A	7/31/2023	0 - 3	<0.050	<0.300	<10.0	24.8	<10.0	<10.0	<10.0	32.0
SW05	7/26/2023	0 - 5	<0.050	<0.300	<10.0	24.8	<10.0	24.8	24.8	48.0
SW06	7/26/2023	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW07	7/26/2023	0 - 7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW08	7/27/2023	0 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW09	7/27/2023	0 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW10	7/31/2023	0 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW11	7/31/2023	0 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**1,120**
SW11A	8/2/2023	0 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW12	7/31/2023	0 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

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

Grey text represents samples that have been excavated

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APPENDIX A

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
NA	J 00040 POD1	4	1	3	18	26N	36E	658962	3583082

Driller License: 1723 **Driller Company:** SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

Driller Name:

Drill Start Date: 07/14/2019 **Drill Finish Date:** 07/14/2019 **Plug Date:** 07/14/2019

Log File Date: 01/02/2020 **PCW Rcv Date:** **Source:**

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

Casing Size: **Depth Well:** **Depth Water:** 270 feet

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2020 JAN -6 PM 3:34

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
J-00040-POD1	N/A	J-00040

WELL OWNER NAME(S)	PHONE (OPTIONAL)
City of Jal	(575) 395-3340

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
PO Drawer 340	Jal	NM	88252

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	2	24.288821	N
	LONGITUDE	103	18	37.033518	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW 1/4 SE 1/4 NW 1/4 SW 1/4 of Sec 18 26S 36E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1723	Randy Stewart	Stewart Brothers Drilling Company

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/14/2019	7/14/2019	N/A	800	270

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☐ AIR ☑ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

RECEIVED
JAN - 2 2020
STATE ENGINEER OFFICE
LAS CRUCES

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. J-40	POD NO. 1	TRN NO. 652646
LOCATION Exp1 26N.36E.18.314	WELL TAG ID NO. —	PAGE 1 OF 2

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	50	50	Red-brown, fine-grained, sub-rounded, moderately sorted, quartz-lithic sand	Y ✓ N	
50	70	20	Yellow-brown, fine-grained, well rounded, sorted, quartz-lithic sand	Y ✓ N	
70	120	50	Tan-brown, upper fine-medium grained, well rounded & sorted, quartz-lithic san	Y ✓ N	
120	340	220	Tan-brown, upper fine-med. grained, well rounded & sorted, quartz-lithic sand	✓ Y N	
340	370	30	Tan-brown, fine sand to fine gravel, poorly sorted, quartz-lithic sand	✓ Y N	
370	440	70	Tan-brown, fine to medium grained, well rounded & sorted, quartz-lithic sand	✓ Y N	
440	600	160	Brown, fine to medium grained, well rounded, well sorted, quartz-lithic sand	✓ Y N	
600	730	130	Light brown, fine-medium grained, well rounded & sorted, quartz-lithic sand	✓ Y N	
730	800	70	Yellowish red, silty clay w/minor fine sand fraction	✓ Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
☐ PUMP ☐ AIR LIFT ☐ BAILER ☑ OTHER – SPECIFY: None

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Stratigraphic test boring, plugged and abandoned after drilling.

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JAN - 2 2020
STATE ENGINEER OFFICE
ROSWELL

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
Ian Lauer

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Randy Stewart — 12/23/19

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

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APPENDIX B

Photographic Log

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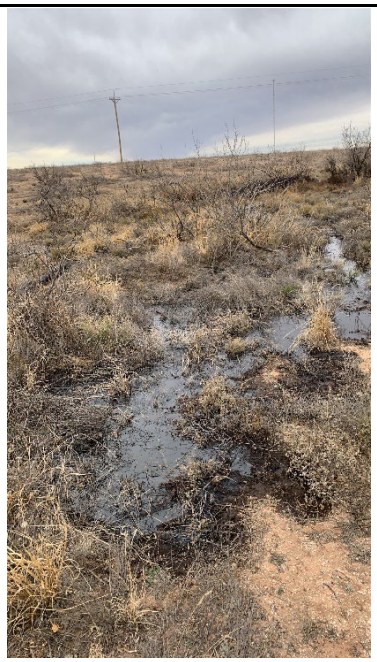
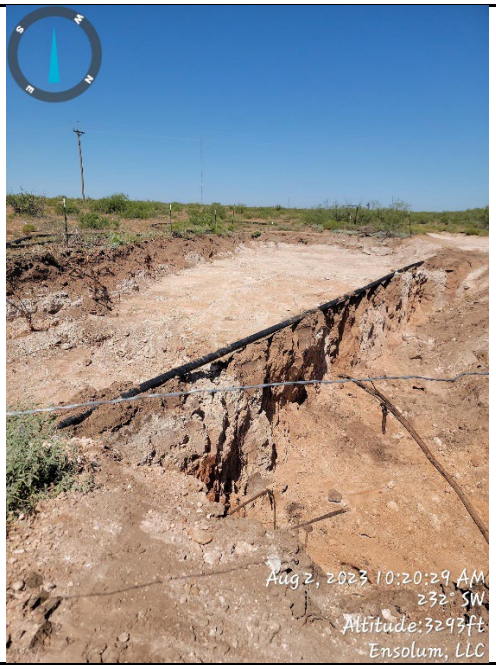
Photographic Log
Maverick Permian, LLC
Cone Jalmat South Satellite Header
NAPP2301881992

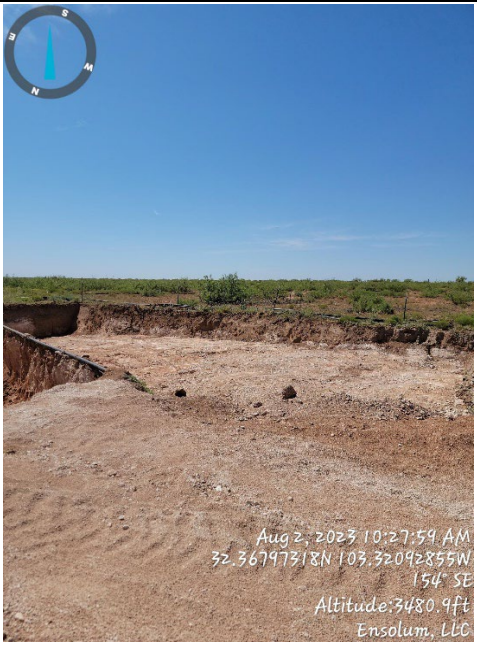


Photograph 1 Date: 1/7/2023
Description: Initial release

Photograph 2 Date: 7/26/2023
Description: Excavation activities



Photograph 3 Date: 8/2/2023
Description: Excavation activities



Photograph 4 Date: 8/2/2023
Description: Final excavation extent

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/16/2023 6:25:37 PM

JOB DESCRIPTION

Cone Jalmat S Satellite Header
SDG NUMBER Lea

JOB NUMBER

890-3817-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

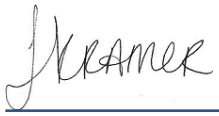
See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/16/2023 6:25:37 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Laboratory Job ID: 890-3817-1
SDG: Lea

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-3817-1
Project/Site: Cone Jalmat S Satellite Header SDG: Lea

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Job ID: 890-3817-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3817-1

Receipt
The samples were received on 1/10/2023 2:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3817-1), SS02 (890-3817-2), SS03 (890-3817-3), SS04 (890-3817-4), SS05 (890-3817-5), SS06 (890-3817-6) and SS07 (890-3817-7).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SS02 (890-3817-2) and SS03 (890-3817-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43832 and analytical batch 880-43866 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-43869/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-43824 and analytical batch 880-43928 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43824 and analytical batch 880-43928 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Client Sample ID: SS01

Lab Sample ID: 890-3817-1
Matrix: Solid
Date Collected: 01/10/23 10:00
Date Received: 01/10/23 14:03
Sample Depth: 0

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		01/12/23 14:48	01/14/23 08:03	20
Toluene	**0.918**		0.0402		mg/Kg		01/12/23 14:48	01/14/23 08:03	20
Ethylbenzene	**2.16**		0.0402		mg/Kg		01/12/23 14:48	01/14/23 08:03	20
m-Xylene & p-Xylene	**2.77**		0.0805		mg/Kg		01/12/23 14:48	01/14/23 08:03	20
o-Xylene	**1.64**		0.0402		mg/Kg		01/12/23 14:48	01/14/23 08:03	20
Xylenes, Total	**4.41**		0.0805		mg/Kg		01/12/23 14:48	01/14/23 08:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/12/23 14:48*	*01/14/23 08:03*	*20*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*01/12/23 14:48*	*01/14/23 08:03*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**7.49**		0.0805		mg/Kg			01/16/23 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**660**		49.9		mg/Kg			01/16/23 16:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**252**		49.9		mg/Kg		01/13/23 08:39	01/16/23 04:42	1
Diesel Range Organics (Over C10-C28)	**408**		49.9		mg/Kg		01/13/23 08:39	01/16/23 04:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/23 08:39	01/16/23 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*01/13/23 08:39*	*01/16/23 04:42*	*1*
o-Terphenyl	*109*		*70 - 130*	*01/13/23 08:39*	*01/16/23 04:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1360**		5.05		mg/Kg			01/13/23 23:34	1

Client Sample ID: SS02

Lab Sample ID: 890-3817-2
Matrix: Solid
Date Collected: 01/10/23 10:10
Date Received: 01/10/23 14:03
Sample Depth: 0

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.189**		0.0401		mg/Kg		01/12/23 14:48	01/14/23 08:24	20
Toluene	**0.706**		0.0401		mg/Kg		01/12/23 14:48	01/14/23 08:24	20
Ethylbenzene	**2.67**		0.0401		mg/Kg		01/12/23 14:48	01/14/23 08:24	20
m-Xylene & p-Xylene	**4.49**		0.0802		mg/Kg		01/12/23 14:48	01/14/23 08:24	20
o-Xylene	**0.476**		0.0401		mg/Kg		01/12/23 14:48	01/14/23 08:24	20
Xylenes, Total	**4.97**		0.0802		mg/Kg		01/12/23 14:48	01/14/23 08:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*12*	*S1-*	*70 - 130*	*01/12/23 14:48*	*01/14/23 08:24*	*20*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Client Sample ID: SS02

Date Collected: 01/10/23 10:10
Date Received: 01/10/23 14:03
Sample Depth: 0

Lab Sample ID: 890-3817-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*3*	*S1-*	*70 - 130*	*01/12/23 14:48*	*01/14/23 08:24*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**8.53**		0.0802	mg/Kg			01/16/23 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**8620**		250	mg/Kg			01/16/23 16:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**4980**		250	mg/Kg		01/13/23 08:39	01/16/23 03:38	5
Diesel Range Organics (Over C10-C28)	**3640**		250	mg/Kg		01/13/23 08:39	01/16/23 03:38	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		01/13/23 08:39	01/16/23 03:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/13/23 08:39*	*01/16/23 03:38*	*5*
o-Terphenyl	*113*		*70 - 130*	*01/13/23 08:39*	*01/16/23 03:38*	*5*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4340**		24.9	mg/Kg			01/13/23 23:52	5

Client Sample ID: SS03

Date Collected: 01/10/23 10:20
Date Received: 01/10/23 14:03
Sample Depth: 0

Lab Sample ID: 890-3817-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398	mg/Kg		01/12/23 14:48	01/14/23 08:44	20
Toluene	**0.684**		0.0398	mg/Kg		01/12/23 14:48	01/14/23 08:44	20
Ethylbenzene	**2.79**		0.0398	mg/Kg		01/12/23 14:48	01/14/23 08:44	20
m-Xylene & p-Xylene	**4.96**		0.0797	mg/Kg		01/12/23 14:48	01/14/23 08:44	20
o-Xylene	**0.492**		0.0398	mg/Kg		01/12/23 14:48	01/14/23 08:44	20
Xylenes, Total	**5.45**		0.0797	mg/Kg		01/12/23 14:48	01/14/23 08:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*24*	*S1-*	*70 - 130*	*01/12/23 14:48*	*01/14/23 08:44*	*20*
1,4-Difluorobenzene (Surr)	*2*	*S1-*	*70 - 130*	*01/12/23 14:48*	*01/14/23 08:44*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**8.93**		0.0797	mg/Kg			01/16/23 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**6640**		249	mg/Kg			01/16/23 16:39	1

Client Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Client Sample ID: SS03

Date Collected: 01/10/23 10:20
Date Received: 01/10/23 14:03
Sample Depth: 0

Lab Sample ID: 890-3817-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2810		249		mg/Kg		01/13/23 08:39	01/16/23 04:00	5
Diesel Range Organics (Over C10-C28)	3830		249		mg/Kg		01/13/23 08:39	01/16/23 04:00	5
OII Range Organics (Over C28-C36)	<249	U	249		mg/Kg		01/13/23 08:39	01/16/23 04:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*01/13/23 08:39*	*01/16/23 04:00*	*5*
o-Terphenyl	*125*		*70 - 130*	*01/13/23 08:39*	*01/16/23 04:00*	*5*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1850		25.0		mg/Kg			01/13/23 23:58	5

Client Sample ID: SS04

Date Collected: 01/10/23 10:45
Date Received: 01/10/23 14:03
Sample Depth: 0

Lab Sample ID: 890-3817-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201		mg/Kg		01/12/23 14:48	01/14/23 00:46	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		01/12/23 14:48	01/14/23 00:46	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		01/12/23 14:48	01/14/23 00:46	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		01/12/23 14:48	01/14/23 00:46	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		01/12/23 14:48	01/14/23 00:46	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		01/12/23 14:48	01/14/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/12/23 14:48*	*01/14/23 00:46*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/12/23 14:48*	*01/14/23 00:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/16/23 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/16/23 16:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/23 08:39	01/16/23 01:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/23 08:39	01/16/23 01:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/23 08:39	01/16/23 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*01/13/23 08:39*	*01/16/23 01:50*	*1*
o-Terphenyl	*97*		*70 - 130*	*01/13/23 08:39*	*01/16/23 01:50*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Client Sample ID: SS04

Lab Sample ID: 890-3817-4
Matrix: Solid
Date Collected: 01/10/23 10:45
Date Received: 01/10/23 14:03
Sample Depth: 0

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.4		4.98		mg/Kg			01/14/23 00:05	1

Client Sample ID: SS05

Lab Sample ID: 890-3817-5
Matrix: Solid
Date Collected: 01/10/23 10:55
Date Received: 01/10/23 14:03
Sample Depth: 0

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/12/23 14:48	01/14/23 01:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/12/23 14:48	01/14/23 01:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/12/23 14:48	01/14/23 01:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/12/23 14:48	01/14/23 01:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/12/23 14:48	01/14/23 01:06	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/12/23 14:48	01/14/23 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/12/23 14:48*	*01/14/23 01:06*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/12/23 14:48*	*01/14/23 01:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/16/23 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/16/23 16:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*01/13/23 08:39*	*01/16/23 02:12*	*1*
o-Terphenyl	*105*		*70 - 130*	*01/13/23 08:39*	*01/16/23 02:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		4.96		mg/Kg			01/14/23 00:11	1

Client Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Client Sample ID: SS06

Lab Sample ID: 890-3817-6
Matrix: Solid
Date Collected: 01/10/23 11:05
Date Received: 01/10/23 14:03
Sample Depth: 0

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/12/23 14:48	01/14/23 01:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/12/23 14:48	01/14/23 01:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/12/23 14:48	01/14/23 01:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/12/23 14:48	01/14/23 01:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/12/23 14:48	01/14/23 01:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/12/23 14:48	01/14/23 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*01/12/23 14:48*	*01/14/23 01:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/12/23 14:48*	*01/14/23 01:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/16/23 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/16/23 16:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*01/13/23 08:39*	*01/16/23 02:34*	*1*
o-Terphenyl	*99*		*70 - 130*	*01/13/23 08:39*	*01/16/23 02:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.3**		4.95		mg/Kg			01/14/23 00:29	1

Client Sample ID: SS07

Lab Sample ID: 890-3817-7
Matrix: Solid
Date Collected: 01/10/23 11:15
Date Received: 01/10/23 14:03
Sample Depth: 0

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:48	01/14/23 05:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:48	01/14/23 05:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:48	01/14/23 05:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/12/23 14:48	01/14/23 05:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/12/23 14:48	01/14/23 05:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/12/23 14:48	01/14/23 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/12/23 14:48*	*01/14/23 05:40*	*1*

Client Sample Results

Client: Ensolum
Job ID: 890-3817-1
Project/Site: Cone Jalmat S Satellite Header
SDG: Lea

Client Sample ID: SS07
Lab Sample ID: 890-3817-7
Date Collected: 01/10/23 11:15
Matrix: Solid
Date Received: 01/10/23 14:03
Sample Depth: 0

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/12/23 14:48*	*01/14/23 05:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/16/23 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/16/23 16:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/16/23 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*98*		*70 - 130*	*01/13/23 08:39*	*01/16/23 02:56*	*1*
o-Terphenyl	*97*		*70 - 130*	*01/13/23 08:39*	*01/16/23 02:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.6**		5.01		mg/Kg			01/14/23 00:35	1

Surrogate Summary

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3817-1	SS01	103	70
890-3817-2	SS02	12 S1-	3 S1-
890-3817-3	SS03	24 S1-	2 S1-
890-3817-4	SS04	119	96
890-3817-4 MS	SS04	121	100
890-3817-4 MSD	SS04	129	98
890-3817-5	SS05	117	96
890-3817-6	SS06	125	105
890-3817-7	SS07	114	102
LCS 880-43832/1-A	Lab Control Sample	108	102
LCSD 880-43832/2-A	Lab Control Sample Dup	106	104
MB 880-43654/5-A	Method Blank	106	103
MB 880-43832/5-B	Method Blank	109	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3792-A-1-E MS	Matrix Spike	81	81
890-3792-A-1-F MSD	Matrix Spike Duplicate	97	82
890-3817-1	SS01	112	109
890-3817-2	SS02	107	113
890-3817-3	SS03	123	125
890-3817-4	SS04	97	97
890-3817-5	SS05	103	105
890-3817-6	SS06	99	99
890-3817-7	SS07	98	97
LCS 880-43869/2-A	Lab Control Sample	113	105
LCSD 880-43869/3-A	Lab Control Sample Dup	116	108
MB 880-43869/1-A	Method Blank	158 S1+	167 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43654/5-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43654

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/23 13:07	01/13/23 12:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/23 13:07	01/13/23 12:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/23 13:07	01/13/23 12:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/23 13:07	01/13/23 12:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/23 13:07	01/13/23 12:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/23 13:07	01/13/23 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/10/23 13:07*	*01/13/23 12:31*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/10/23 13:07*	*01/13/23 12:31*	*1*

Lab Sample ID: MB 880-43832/5-B
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43832

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/12/23 14:48	01/14/23 00:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/12/23 14:48	01/14/23 00:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/12/23 14:48*	*01/14/23 00:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/12/23 14:48*	*01/14/23 00:17*	*1*

Lab Sample ID: LCS 880-43832/1-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43832

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1081		mg/Kg		108	70 - 130		
Toluene			0.100	0.1031		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.09995		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2033		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.09880		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-43832/2-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43832

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08851		mg/Kg		89	70 - 130	20	35

QC Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-43832/2-A
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43832

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08351		mg/Kg		84	70 - 130	21	35
Ethylbenzene			0.100	0.08255		mg/Kg		83	70 - 130	19	35
m-Xylene & p-Xylene			0.200	0.1689		mg/Kg		84	70 - 130	18	35
o-Xylene			0.100	0.08398		mg/Kg		84	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-3817-4 MS
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: SS04
Prep Type: Total/NA
Prep Batch: 43832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.101	0.03806	F1	mg/Kg		38	70 - 130
Toluene	<0.00201	U F1	0.101	0.03900	F1	mg/Kg		38	70 - 130
Ethylbenzene	<0.00201	U F1	0.101	0.04328	F1	mg/Kg		43	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.08599	F1	mg/Kg		42	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.04492	F1	mg/Kg		44	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-3817-4 MSD
Matrix: Solid
Analysis Batch: 43866

Client Sample ID: SS04
Prep Type: Total/NA
Prep Batch: 43832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0990	0.02633	F1 F2	mg/Kg		27	70 - 130	36	35
Toluene	<0.00201	U F1	0.0990	0.02875	F1	mg/Kg		28	70 - 130	30	35
Ethylbenzene	<0.00201	U F1	0.0990	0.03064	F1	mg/Kg		31	70 - 130	34	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.06396	F1	mg/Kg		32	70 - 130	29	35
o-Xylene	<0.00201	U F1	0.0990	0.03464	F1	mg/Kg		34	70 - 130	26	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43869/1-A
Matrix: Solid
Analysis Batch: 43945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43869

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/15/23 19:47	1

QC Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-43869/1-A
Matrix: Solid
Analysis Batch: 43945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43869

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/15/23 19:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/23 08:39	01/15/23 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*01/13/23 08:39*	*01/15/23 19:47*	*1*
o-Terphenyl	*167*	*S1+*	*70 - 130*	*01/13/23 08:39*	*01/15/23 19:47*	*1*

Lab Sample ID: LCS 880-43869/2-A
Matrix: Solid
Analysis Batch: 43945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43869

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	850.0		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	958.3		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-43869/3-A
Matrix: Solid
Analysis Batch: 43945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43869

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	969.8		mg/Kg		97	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	903.3		mg/Kg		90	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 890-3792-A-1-E MS
Matrix: Solid
Analysis Batch: 43945

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	895.8		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	895.5		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3792-A-1-F MSD
Matrix: Solid
Analysis Batch: 43945

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	959.7		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	917.4		mg/Kg		89	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43824/1-A
Matrix: Solid
Analysis Batch: 43928

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/13/23 23:15	1

Lab Sample ID: LCS 880-43824/2-A
Matrix: Solid
Analysis Batch: 43928

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	270.5		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-43824/3-A
Matrix: Solid
Analysis Batch: 43928

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	265.2		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 890-3817-1 MS
Matrix: Solid
Analysis Batch: 43928

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1360		253	1554	E 4	mg/Kg		75	90 - 110		

Lab Sample ID: 890-3817-1 MSD
Matrix: Solid
Analysis Batch: 43928

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1360		253	1573	E 4	mg/Kg		82	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

GC VOA

Prep Batch: 43654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43654/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 43832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-1	SS01	Total/NA	Solid	5035	
890-3817-2	SS02	Total/NA	Solid	5035	
890-3817-3	SS03	Total/NA	Solid	5035	
890-3817-4	SS04	Total/NA	Solid	5035	
890-3817-5	SS05	Total/NA	Solid	5035	
890-3817-6	SS06	Total/NA	Solid	5035	
890-3817-7	SS07	Total/NA	Solid	5035	
MB 880-43832/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-43832/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43832/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3817-4 MS	SS04	Total/NA	Solid	5035	
890-3817-4 MSD	SS04	Total/NA	Solid	5035	

Analysis Batch: 43866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-1	SS01	Total/NA	Solid	8021B	43832
890-3817-2	SS02	Total/NA	Solid	8021B	43832
890-3817-3	SS03	Total/NA	Solid	8021B	43832
890-3817-4	SS04	Total/NA	Solid	8021B	43832
890-3817-5	SS05	Total/NA	Solid	8021B	43832
890-3817-6	SS06	Total/NA	Solid	8021B	43832
890-3817-7	SS07	Total/NA	Solid	8021B	43832
MB 880-43654/5-A	Method Blank	Total/NA	Solid	8021B	43654
MB 880-43832/5-B	Method Blank	Total/NA	Solid	8021B	43832
LCS 880-43832/1-A	Lab Control Sample	Total/NA	Solid	8021B	43832
LCSD 880-43832/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43832
890-3817-4 MS	SS04	Total/NA	Solid	8021B	43832
890-3817-4 MSD	SS04	Total/NA	Solid	8021B	43832

Analysis Batch: 44101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-1	SS01	Total/NA	Solid	Total BTEX	
890-3817-2	SS02	Total/NA	Solid	Total BTEX	
890-3817-3	SS03	Total/NA	Solid	Total BTEX	
890-3817-4	SS04	Total/NA	Solid	Total BTEX	
890-3817-5	SS05	Total/NA	Solid	Total BTEX	
890-3817-6	SS06	Total/NA	Solid	Total BTEX	
890-3817-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-1	SS01	Total/NA	Solid	8015NM Prep	
890-3817-2	SS02	Total/NA	Solid	8015NM Prep	
890-3817-3	SS03	Total/NA	Solid	8015NM Prep	
890-3817-4	SS04	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

GC Semi VOA (Continued)

Prep Batch: 43869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-5	SS05	Total/NA	Solid	8015NM Prep	
890-3817-6	SS06	Total/NA	Solid	8015NM Prep	
890-3817-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-43869/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43869/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43869/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3792-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3792-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-1	SS01	Total/NA	Solid	8015B NM	43869
890-3817-2	SS02	Total/NA	Solid	8015B NM	43869
890-3817-3	SS03	Total/NA	Solid	8015B NM	43869
890-3817-4	SS04	Total/NA	Solid	8015B NM	43869
890-3817-5	SS05	Total/NA	Solid	8015B NM	43869
890-3817-6	SS06	Total/NA	Solid	8015B NM	43869
890-3817-7	SS07	Total/NA	Solid	8015B NM	43869
MB 880-43869/1-A	Method Blank	Total/NA	Solid	8015B NM	43869
LCS 880-43869/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43869
LCSD 880-43869/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43869
890-3792-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	43869
890-3792-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43869

Analysis Batch: 44046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-1	SS01	Total/NA	Solid	8015 NM	
890-3817-2	SS02	Total/NA	Solid	8015 NM	
890-3817-3	SS03	Total/NA	Solid	8015 NM	
890-3817-4	SS04	Total/NA	Solid	8015 NM	
890-3817-5	SS05	Total/NA	Solid	8015 NM	
890-3817-6	SS06	Total/NA	Solid	8015 NM	
890-3817-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-1	SS01	Soluble	Solid	DI Leach	
890-3817-2	SS02	Soluble	Solid	DI Leach	
890-3817-3	SS03	Soluble	Solid	DI Leach	
890-3817-4	SS04	Soluble	Solid	DI Leach	
890-3817-5	SS05	Soluble	Solid	DI Leach	
890-3817-6	SS06	Soluble	Solid	DI Leach	
890-3817-7	SS07	Soluble	Solid	DI Leach	
MB 880-43824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3817-1 MS	SS01	Soluble	Solid	DI Leach	
890-3817-1 MSD	SS01	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

HPLC/IC

Analysis Batch: 43928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3817-1	SS01	Soluble	Solid	300.0	43824
890-3817-2	SS02	Soluble	Solid	300.0	43824
890-3817-3	SS03	Soluble	Solid	300.0	43824
890-3817-4	SS04	Soluble	Solid	300.0	43824
890-3817-5	SS05	Soluble	Solid	300.0	43824
890-3817-6	SS06	Soluble	Solid	300.0	43824
890-3817-7	SS07	Soluble	Solid	300.0	43824
MB 880-43824/1-A	Method Blank	Soluble	Solid	300.0	43824
LCS 880-43824/2-A	Lab Control Sample	Soluble	Solid	300.0	43824
LCSD 880-43824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43824
890-3817-1 MS	SS01	Soluble	Solid	300.0	43824
890-3817-1 MSD	SS01	Soluble	Solid	300.0	43824

Lab Chronicle

Client: Ensolum
Job ID: 890-3817-1
Project/Site: Cone Jalmat S Satellite Header
SDG: Lea

Client Sample ID: SS01
Lab Sample ID: 890-3817-1
Date Collected: 01/10/23 10:00
Matrix: Solid
Date Received: 01/10/23 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43832	01/12/23 14:48	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43866	01/14/23 08:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44101	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44046	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43869	01/13/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/16/23 04:42	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	43824	01/12/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			43928	01/13/23 23:34	CH	EET MID

Client Sample ID: SS02
Lab Sample ID: 890-3817-2
Date Collected: 01/10/23 10:10
Matrix: Solid
Date Received: 01/10/23 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43832	01/12/23 14:48	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43866	01/14/23 08:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44101	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44046	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43869	01/13/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43945	01/16/23 03:38	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43824	01/12/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			43928	01/13/23 23:52	CH	EET MID

Client Sample ID: SS03
Lab Sample ID: 890-3817-3
Date Collected: 01/10/23 10:20
Matrix: Solid
Date Received: 01/10/23 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43832	01/12/23 14:48	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43866	01/14/23 08:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44101	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44046	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43869	01/13/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43945	01/16/23 04:00	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43824	01/12/23 14:04	KS	EET MID
Soluble	Analysis	300.0		5			43928	01/13/23 23:58	CH	EET MID

Client Sample ID: SS04
Lab Sample ID: 890-3817-4
Date Collected: 01/10/23 10:45
Matrix: Solid
Date Received: 01/10/23 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43832	01/12/23 14:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 00:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44101	01/16/23 17:00	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Job ID: 890-3817-1
Project/Site: Cone Jalmat S Satellite Header
SDG: Lea

Client Sample ID: SS04
Lab Sample ID: 890-3817-4
Date Collected: 01/10/23 10:45
Matrix: Solid
Date Received: 01/10/23 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44046	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43869	01/13/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/16/23 01:50	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43824	01/12/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			43928	01/14/23 00:05	CH	EET MID

Client Sample ID: SS05
Lab Sample ID: 890-3817-5
Date Collected: 01/10/23 10:55
Matrix: Solid
Date Received: 01/10/23 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	43832	01/12/23 14:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44101	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44046	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43869	01/13/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/16/23 02:12	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43824	01/12/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			43928	01/14/23 00:11	CH	EET MID

Client Sample ID: SS06
Lab Sample ID: 890-3817-6
Date Collected: 01/10/23 11:05
Matrix: Solid
Date Received: 01/10/23 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	43832	01/12/23 14:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44101	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44046	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43869	01/13/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/16/23 02:34	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	43824	01/12/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			43928	01/14/23 00:29	CH	EET MID

Client Sample ID: SS07
Lab Sample ID: 890-3817-7
Date Collected: 01/10/23 11:15
Matrix: Solid
Date Received: 01/10/23 14:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43832	01/12/23 14:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43866	01/14/23 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44101	01/16/23 17:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44046	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43869	01/13/23 08:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/16/23 02:56	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Job ID: 890-3817-1
Project/Site: Cone Jalmat S Satellite Header
SDG: Lea

Client Sample ID: SS07
Date Collected: 01/10/23 11:15
Date Received: 01/10/23 14:03

Lab Sample ID: 890-3817-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	43824	01/12/23 14:04	KS	EET MID
Soluble	Analysis	300.0		1			43928	01/14/23 00:35	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Job ID: 890-3817-1
Project/Site: Cone Jalmat S Satellite Header
SDG: Lea

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum Job ID: 890-3817-1
Project/Site: Cone Jalmat S Satellite Header SDG: Lea

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Cone Jalmat S Satellite Header

Job ID: 890-3817-1
SDG: Lea

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3817-1	SS01	Solid	01/10/23 10:00	01/10/23 14:03	0
890-3817-2	SS02	Solid	01/10/23 10:10	01/10/23 14:03	0
890-3817-3	SS03	Solid	01/10/23 10:20	01/10/23 14:03	0
890-3817-4	SS04	Solid	01/10/23 10:45	01/10/23 14:03	0
890-3817-5	SS05	Solid	01/10/23 10:55	01/10/23 14:03	0
890-3817-6	SS06	Solid	01/10/23 11:05	01/10/23 14:03	0
890-3817-7	SS07	Solid	01/10/23 11:15	01/10/23 14:03	0

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	kjennings@ensolum.com, hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Cone Jalmat S. Satellite Header	Turn Around	
Project Number:	03D2057066	☑ Routine ☐ Rush	
Project Location:	Lea	Due Date:	
Sampler's Name:	Peter Van Patten	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.8
Total Containers:		Corrected Temperature:	4.6

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

890-3817 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	Soil	1/10/2023	1000	0'	Comp	1	x	x	x	
SS02	Soil	1/10/2023	1010	0'	Comp	1	x	x	x	
SS03	Soil	1/10/2023	1020	0'	Comp	1	x	x	x	
SS04	Soil	1/10/2023	1045	0'	Comp	1	x	x	x	
SS05	Soil	1/10/2023	1055	0'	Comp	1	x	x	x	
SS06	Soil	1/10/2023	1105	0'	Comp	1	x	x	x	
SS07	Soil	1/10/2023	1115	0'	Comp	1	x	x	x	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Peter Van Patten	Chase Cyp	1.10.22 1403	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3817-1
SDG Number: Lea

Login Number: 3817
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3817-1
SDG Number: Lea

Login Number: 3817
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/12/23 10:37 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

CARDINAL Laboratories

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

July 27, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CONE JALMAT SOUTH SATELLITE HEADER

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 01 4' (H233919-01)

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	07/27/2023	ND	1.98	98.8	2.00	0.168	
Toluene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.5	2.00	0.418	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	0.0535	
Total BTEX	<0.300	0.300	07/27/2023	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	**128**	16.0	07/27/2023	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	07/26/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *98.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 02 5' (H233919-02)

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	07/27/2023	ND	1.98	98.8	2.00	0.168	
Toluene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.5	2.00	0.418	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	0.0535	
Total BTEX	<0.300	0.300	07/27/2023	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	**80.0**	16.0	07/27/2023	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	07/26/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *93.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 03 6' (H233919-03)

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	07/27/2023	ND	1.98	98.8	2.00	0.168	
Toluene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.5	2.00	0.418	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	0.0535	
Total BTEX	<0.300	0.300	07/27/2023	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	**32.0**	16.0	07/27/2023	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	07/26/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *93.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 04 5' (H233919-04)

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	07/27/2023	ND	1.98	98.8	2.00	0.168	
Toluene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.5	2.00	0.418	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	0.0535	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *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	**576**	16.0	07/27/2023	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	07/26/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *95.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

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Celey D. Keene

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 05 4' (H233919-05)

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	07/27/2023	ND	1.98	98.8	2.00	0.168	
Toluene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.5	2.00	0.418	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	0.0535	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	07/27/2023	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	07/26/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *109 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 06 4' (H233919-06)

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	07/27/2023	ND	1.98	98.8	2.00	0.168	
Toluene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.5	2.00	0.418	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	0.0535	
Total BTEX	<0.300	0.300	07/27/2023	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	07/27/2023	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	07/26/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *99.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 07 3' (H233919-07)

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	07/27/2023	ND	1.98	98.8	2.00	0.168	
Toluene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.5	2.00	0.418	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	0.0535	
Total BTEX	<0.300	0.300	07/27/2023	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	**32.0**	16.0	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *94.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 08 3' (H233919-08)

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	07/27/2023	ND	1.98	98.8	2.00	0.168	
Toluene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	7.02	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.5	2.00	0.418	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.88	98.0	6.00	0.0535	
Total BTEX	<0.300	0.300	07/27/2023	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	<16.0	16.0	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *81.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.2 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 09 3' (H233919-09)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *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	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *95.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: FS 10 8' (H233919-10)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	**96.0**	16.0	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *121 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *135 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: SW 01 0-8' (H233919-11)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *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	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *97.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: SW 02 0-3' (H233919-12)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	<16.0	16.0	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *97.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: SW 03 0-4' (H233919-13)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *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	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *95.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: SW 04 0-3' (H233919-14)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	**32.0**	16.0	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	**164**	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	**63.9**	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *95.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: SW 05 0-5' (H233919-15)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *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	**48.0**	16.0	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	**24.8**	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *98.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: SW 06 0-6' (H233919-16)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *97.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/26/2023	Sampling Date:	07/26/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK		

Sample ID: SW 07 0-7' (H233919-17)

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	07/27/2023	ND	1.99	99.3	2.00	3.96	
Toluene*	<0.050	0.050	07/27/2023	ND	2.07	103	2.00	4.25	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	3.80	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.00	100	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	**16.0**	16.0	07/27/2023	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	07/27/2023	ND	197	98.6	200	3.51	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	102	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 #:
Project #: 03D2057006 Project Owner: Maverick
Project Name: Cone Talmat Sough Satellite Heater
Project Location:
Sampler Name: Rami Hayes

BILL TO
P.O. #:
Company:
Attn: Aimee Cole
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH	BTEX	Cl-
H233919-1	FS01	4'	C	1			X					X		7/26/23	1:55	X	X	X
2	FS02	5'													1:47			
3	FS03	6'													1:53			
4	FS04	5'													2:02			
5	FS05	4'													2:04			
6	FS06	4'													2:07			
7	FS07	3'													2:10			
8	FS08	3'													2:12			
9	FS09	3'													2:15			
10	FS10	8'													2:35			

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: Date: 7/26/23 Time: 16:45 Received By: Shaw Cisneros
Relinquished By: Date: Time: Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address: acole@ensolum.com
REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C Corrected Temp. °C 5.1
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) SC

Turnaround Time: Standard ☐ Rush ☒ 24hrs
Thermometer ID ~~#113~~ #140 Correction Factor ~~-0.5°C~~
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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 #: 720-384-7305 Fax #:

Project #: 03D2057Cole Project Owner: Mavrich

Project Name: Core Talmat South Satellite Header

Project Location:

Sampler Name: Ronni Hayes

BILL TO

P.O. #:

Company:

Attn: Aimee Cole

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	BTEX	TPH	Cl-
H233919																		
11	SW01	0-9	C	1			X					X		1:44	7/26/23	X	X	X
12	SW02	0-3												1:10				
13	SW03	0-4												1:59				
14	SW04	0-3												12:10				
15	SW05	0-5												2:20				
16	SW06	0-6												2:25				
17	SW07	0-7												12:20				

Relinquished By: Date: 7/26/23 Time: 16:45 Received By: Shay Cisneros

Relinquished By: Date: Time: Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address: acole@ensolum.com

REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Observed Temp. °C Corrected Temp. °C 5.1C°

Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials) DC

Turnaround Time: Standard ☐ Rush ☒ 24hrs

Thermometer ID #110 #140 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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

July 28, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CONE JALMAT SOUTH SATELLITE HEADER

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 14:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 11 @ 10' (H233957-01)

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	07/28/2023	ND	1.94	96.8	2.00	0.930	
Toluene*	<0.050	0.050	07/28/2023	ND	2.08	104	2.00	2.26	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	2.74	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.36	106	6.00	2.99	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *128 %* *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	**368**	16.0	07/28/2023	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	07/28/2023	ND	184	92.1	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	196	97.9	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *85.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 12 @ 10' (H233957-02)

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	07/28/2023	ND	1.94	96.8	2.00	0.930	
Toluene*	<0.050	0.050	07/28/2023	ND	2.08	104	2.00	2.26	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	2.74	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.36	106	6.00	2.99	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *128 %* *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	**336**	16.0	07/28/2023	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	07/28/2023	ND	184	92.1	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	196	97.9	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *85.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: SW 08 @ 0-10' (H233957-03)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *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	**368**	16.0	07/28/2023	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	07/28/2023	ND	184	92.1	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	196	97.9	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *87.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: SW 09 @ 0-10' (H233957-04)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	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	**272**	16.0	07/28/2023	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	07/28/2023	ND	198	99.1	200	3.12	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	200	99.9	200	0.0315	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *78.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.4 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	Jimmy Cobb
Address:	8122 Watt Parkway
City:	Carlsbad State: NM Zip: 88220
Phone #:	720-384-7368 Fax #:
Project #:	03D2057066 Project Owner: Maverick
Project Name:	Lone Salmat South Satellite Header
Project Location:	(32.3673966 -103.3214958)
Sampler Name:	Juliana Falcomata

BILL TO

P.O. #:	
Company:	M.C.
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	TPH	Chlorides
H233957-1	FS11 @ 10'	C	1			X					X		7/27/23	1230	X	X	X
-2	FS12 @ 10'													1235			
-3	SW08 @ 0-10'													1240			
-4	SW09 @ 0-10'													1245			

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:	Date: 7/27/23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Time: 14:34	Received By:	All Results are emailed. Please provide Email address: napp2301681992
	Date:		REMARKS:
	Time:		dnole@ensolum.com jfalcomata@ensolum.com

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time: Standard ☐ Rush ☒ 24hr
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.4°C	Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	(Initials) SC	Thermometer ID #113 #140 Correction Factor -0.8°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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

CARDINAL Laboratories

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

August 01, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CONE JALMAT SOUTH SATELLITE HEADER

Enclosed are the results of analyses for samples received by the laboratory on 07/31/23 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 13 10' (H234020-01)

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	07/31/2023	ND	2.15	108	2.00	4.48	
Toluene*	<0.050	0.050	07/31/2023	ND	2.10	105	2.00	5.32	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.09	102	6.00	4.02	
Total BTEX	<0.300	0.300	07/31/2023	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	**160**	16.0	08/01/2023	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	08/01/2023	ND	186	93.0	200	10.6	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	204	102	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 14 10' (H234020-02)

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	07/31/2023	ND	2.15	108	2.00	4.48	
Toluene*	<0.050	0.050	07/31/2023	ND	2.10	105	2.00	5.32	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.09	102	6.00	4.02	
Total BTEX	<0.300	0.300	07/31/2023	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	**288**	16.0	08/01/2023	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	08/01/2023	ND	186	93.0	200	10.6	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	204	102	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *123 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 15 10' (H234020-03)

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	07/31/2023	ND	2.15	108	2.00	4.48	
Toluene*	<0.050	0.050	07/31/2023	ND	2.10	105	2.00	5.32	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.09	102	6.00	4.02	
Total BTEX	<0.300	0.300	07/31/2023	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	**32.0**	16.0	08/01/2023	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	08/01/2023	ND	186	93.0	200	10.6	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	204	102	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *97.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 16 10' (H234020-04)

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	07/31/2023	ND	2.15	108	2.00	4.48	
Toluene*	<0.050	0.050	07/31/2023	ND	2.10	105	2.00	5.32	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.09	102	6.00	4.02	
Total BTEX	<0.300	0.300	07/31/2023	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	<16.0	16.0	08/01/2023	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	08/01/2023	ND	186	93.0	200	10.6	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	204	102	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *98.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 17 10' (H234020-05)

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	07/31/2023	ND	2.15	108	2.00	4.48	
Toluene*	<0.050	0.050	07/31/2023	ND	2.10	105	2.00	5.32	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.09	102	6.00	4.02	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *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	**384**	16.0	08/01/2023	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	08/01/2023	ND	186	93.0	200	10.6	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	204	102	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *97.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 18 10' (H234020-06)

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	07/31/2023	ND	2.15	108	2.00	4.48	
Toluene*	<0.050	0.050	07/31/2023	ND	2.10	105	2.00	5.32	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.09	102	6.00	4.02	
Total BTEX	<0.300	0.300	07/31/2023	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	**272**	16.0	08/01/2023	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	08/01/2023	ND	200	100	200	3.08	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	194	97.2	200	4.77	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *89.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 19 10' (H234020-07)

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	07/31/2023	ND	2.15	108	2.00	4.48	
Toluene*	<0.050	0.050	07/31/2023	ND	2.10	105	2.00	5.32	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.09	102	6.00	4.02	
Total BTEX	<0.300	0.300	07/31/2023	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	**288**	16.0	08/01/2023	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	08/01/2023	ND	200	100	200	3.08	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	194	97.2	200	4.77	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *88.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 20 10' (H234020-08)

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	07/31/2023	ND	2.15	108	2.00	4.48	
Toluene*	<0.050	0.050	07/31/2023	ND	2.10	105	2.00	5.32	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.09	102	6.00	4.02	
Total BTEX	<0.300	0.300	07/31/2023	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	**368**	16.0	08/01/2023	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	08/01/2023	ND	200	100	200	3.08	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	194	97.2	200	4.77	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *91.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: FS 21 10' (H234020-09)

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	07/31/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	07/31/2023	ND	1.94	96.8	2.00	1.59	QR-03
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	07/31/2023	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	**272**	16.0	08/01/2023	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	08/01/2023	ND	200	100	200	3.08	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	194	97.2	200	4.77	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *96.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: SW 10 0-10' (H234020-10)

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	07/31/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	07/31/2023	ND	1.94	96.8	2.00	1.59	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *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	**336**	16.0	08/01/2023	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	08/01/2023	ND	200	100	200	3.08	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	194	97.2	200	4.77	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *99.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: SW 11 0-10' (H234020-11)

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	07/31/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	07/31/2023	ND	1.94	96.8	2.00	1.59	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	07/31/2023	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	**1120**	16.0	08/01/2023	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	08/01/2023	ND	200	100	200	3.08	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	194	97.2	200	4.77	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *95.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: SW 12 0-10' (H234020-12)

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	07/31/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	07/31/2023	ND	1.94	96.8	2.00	1.59	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	07/31/2023	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	**288**	16.0	08/01/2023	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	08/01/2023	ND	200	100	200	3.08	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	194	97.2	200	4.77	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *84.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.5 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.367366,-103.321498)		

Sample ID: SW 04 A 0-3' (H234020-13)

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	07/31/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	07/31/2023	ND	1.94	96.8	2.00	1.59	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	08/01/2023	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	08/01/2023	ND	200	100	200	3.08	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	194	97.2	200	4.77	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane *89.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.4 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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Celey D. Keene, Lab Director/Quality Manager

1 of 2

CARDINAL Laboratories

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 #:
Project #: 03D2057066 Project Owner: Maverick
Project Name: Cone Jalmat South Satellite Heater
Project Location:
Sampler Name: Ronni Hayes

BILL TO
P.O. #:
Company:
Attn: Aimee Cole
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	Cl-	TPH
H234020																		
1	FS13	10	C	1			X					X		7/31/23	1127	X	X	X
2	FS14	10													1133			
3	FS15	10													1135			
4	FS16	10													1140			
5	FS17	10													105			
6	FS18	10													110			
7	FS19	10													1150			
8	FS20	10													1155			
9	FS21	10													115			
10	SW10	0-10	↓	↓			↓					↓		↓	210	↓	↓	↓

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: Date: 7-31-23 Time: 1608 Received By:
Relinquished By: Date: Time: Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address: acole@ensolum.com
REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 5.2 Corrected Temp. °C
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) TO

Turnaround Time: Standard ☐ Rush ☒
Thermometer ID #113 Correction Factor -0.5°C
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

2 of 2

CARDINAL Laboratories

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
Project Manager: Ainee Cole	P.O. #:
Address: 3122 National Parks Hwy	Company:
City: Carlsbad State: NM Zip: 88220	Attn: Ainee Cole
Phone #: 720-384-7365 Fax #:	Address:
Project #: 03D2070de Project Owner: Maverick	City:
Project Name: Core Jalmat South Satellite Header	State: Zip:
Project Location:	Phone #:
Sampler Name: Rorri Hynes	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH	BTEX	Cl-
H234020																		
11	SW11	0-10	C	1			X					X		7/31/23	215	X	X	X
12	SW12	0-10													225			
13	SW04a	0-3	↓	↓			↓					↓		↓	230	↓	↓	↓

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:	Date: 7-31-23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1608		All Results are emailed. Please provide Email address: acole@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 5.2	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) T.O.	Turnaround Time: Standard ☐ Rush ☒
	Corrected Temp. °C			Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

August 03, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CONE JALMAT SOUTH SATELLITE HEADER

Enclosed are the results of analyses for samples received by the laboratory on 08/02/23 11:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	08/02/2023	Sampling Date:	08/02/2023
Reported:	08/03/2023	Sampling Type:	Soil
Project Name:	CONE JALMAT SOUTH SATELLITE HEADI	Sampling Condition:	Cool & Intact
Project Number:	03D2057066	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.36785,-103.32104)		

Sample ID: SW 11 A @ 0-10' (H234076-01)

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	08/03/2023	ND	1.98	99.2	2.00	0.642	
Toluene*	<0.050	0.050	08/03/2023	ND	1.90	95.2	2.00	0.971	
Ethylbenzene*	<0.050	0.050	08/03/2023	ND	1.95	97.6	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/03/2023	ND	5.76	95.9	6.00	0.697	
Total BTEX	<0.300	0.300	08/03/2023	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	**80.0**	16.0	08/03/2023	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	08/03/2023	ND	189	94.4	200	3.11	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	207	103	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane *95.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	8122 Natl Park Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	720-384-7365 Fax #:
Project #:	05D2057066 Project Owner: Maverick
Project Name:	Cone Calmet South Satellite Header
Project Location:	32.36785, -103.32104
Sampler Name:	Julianna Falcomata

BILL TO

P.O. #:	NA
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	BTEX	TPH	Chlorides
H234076-1	SW11A@0-10'	C	1			X					X		8/2/23	1030	X	X	X

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 consequental 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:	Date: 8-2-23	Received By:	
Relinquished By:	Time: 1148	Received By:	
	Date:		
	Time:		

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

All Results are emailed. Please provide Email address:

acole@ensolum.com jfalcomata@ensolum.com

REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 4.6	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C		

Turnaround Time: Standard ☐ Rush ☒ 24 hr

Thermometer ID #113 #140 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

8/2/23

FORM-006 R 3.3 07/18/22

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

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APPENDIX D

NMOCD Notifications

From: Aimee Cole
To: ocd.enviro@state.nm.us
Cc: Kalei Jennings
Subject: Maverick - Sampling Notification (Week of 7/24/2023)
Date: Wednesday, July 19, 2023 1:45:00 PM
Attachments: image005.png
image006.png
image007.png
image008.png

All,

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of July 24, 2023.

- SEMU 34 / NAPP2314257831
  - Sampling Dates: 7/24/2023 - 7/26/2023
- Cone Jalmat South Satellite Header / NAPP2301881992
  - Sampling Dates: 7/25/2023 - 7/27/2023
- SC Federal Battery / NAPP2303272686
  - Sampling Date: 7/26/2023

Thank you,

Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC

From: Wells, Shelly, EMNRD
To: Aimee Cole
Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 7/31/2023)
Date: Wednesday, July 26, 2023 10:53:35 AM
Attachments: image001.png
image002.png
image003.png
image004.png

> You don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

Hi Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, July 26, 2023 10:29 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 7/31/2023)

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

All,

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of July 31, 2023.

- Cone Jalmat South Satellite Header / NAPP2301881992
  - Sampling Dates: 7/31/2023 - 8/1/2023

- MCA 351 / NAPP2302034681

- Sampling Date: 8/2/2023 – 8/5/2023

Thank you,

Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC

ENSOLUM

APPENDIX E
Form C141

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2301881992
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC	OGRID: 331199
Contact Name: Bryce Wagoner	Contact Telephone: 928-241-1862
Contact email: Bryce.Wagoner@mavresources.com	Incident # *(assigned by OCD)*
Contact mailing address: 1410 NW County Road Hobbs, NM 88240	

Location of Release Source

Latitude 32.36785 Longitude -103.32104
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cone Jalmat South Satellite Header	Site Type
Date Release Discovered January 7, 2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
B	25	22S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 5.85 bbls	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) 13.66 bbls	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
The release was caused by internal corrosion on main trunk line from the header. The release occurred off pad. The source of the release has been stopped and the impacted area has been secured. Initial response and removal of saturated soil from the release area has been completed.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2301881992
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: ____Bryce Wagoner _____ Title: ___Permian HSE Specialist II_____

Signature: _____ Date: __1/16/2023_____

email: _____Bryce.Wagoner@mavresources.com____ Telephone: ___928-241-1862_____

OCD Only

Received by: _____Jocelyn Harimon_____ Date: 01/19/2023

NAPP2301881992

Pooled Fluids on the Surface										
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0 . don't count shared boundaries*	Oil-Water Ratio (%)	Pooled Area (ft^2)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	85.0	30.0	1.0	4.0	0.30	2550.0	0.0	9.5	2.84	6.62
Rectangle B	30.0	20.0	1.0	4.0	0.30	600.0	0.0	2.2	0.67	1.56
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
							Total Volume (bbls):	**11.68**	**3.50**	**8.18**

Subsurface Fluids										
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation*	Oil-Water Ratio (%)	Area (ft^2)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	45.0	15.0	8.0	0.1	0.30	675.0	80.1	6.4	1.92	4.5
Rectangle B	20.0	10.0	6.0	0.1	0.30	200.0	17.8	1.4	0.43	1.0
Rectangle C						0.0	0.0	0.0	0.00	0.0
Rectangle D						0.0	0.0	0.0	0.00	0.0
Rectangle E						0.0	0.0	0.0	0.00	0.0
Rectangle F						0.0	0.0	0.0	0.00	0.0
Rectangle G						0.0	0.0	0.0	0.00	0.0
Rectangle H						0.0	0.0	0.0	0.00	0.0
Rectangle I						0.0	0.0	0.0	0.00	0.0
Rectangle J						0.0	0.0	0.0	0.00	0.0
							Total Volume (bbls):	**7.83**	**2.35**	**5.48**

TOTAL RELEASE VOLUME (bbls):	**19.5**

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

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

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 177320
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/19/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2301881992
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2301881992
District RP	
Facility ID	
Application ID	

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.

Printed Name: ___ Bryce Wagoner_____ Title: _ Permian HSE Specialist II _____

Signature:_____ Date: 8-9-2023

email: _ Bryce.Wagoner@mavresources.com _____ Telephone: _928-241-1862_____

OCD Only

Received by: Shelly Wells Date: 8/10/2023

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2301881992
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of 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.

Printed Name: ___ Bryce Wagoner _____ Title: __ Permian HSE Specialist II _____

Signature: _____ Date: 8-9-2023

email: _ Bryce.Wagoner@mavresources.com _____ Telephone: _928-241-1862_____

OCD Only

Received by: Shelly Wells Date: 8/10/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 11/28/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

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

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

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 250684
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/28/2023