

September 6, 2024

#### **New Mexico Oil Conservation Division**

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

Re: Closure Request

Jalmat Yates Unit #188

Incident Number NAPP2235373931

Lea County, New Mexico

### To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* as a follow-up to the *Remediation Work Plan* (Work Plan) submitted to the New Mexico Oil Conservation Division (NMOCD) on January 8, 2024, and approved by NMOCD on March 13, 2024. This *Closure Request* documents excavation, soil sampling, and liner installation activities performed at the Jalmat Yates Unit #188 (Site) to address impacts to soil resulting from a release of crude oil and produced water. Based on the remediation activities completed as outlined in the approved *Work Plan*, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2235373931.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 13, Township 22 South, Range 35 East, in Lea County, New Mexico (32.395541° N, -103.32178° W) and is associated with oil and gas exploration and production operations on land owned partially by the New Mexico State Land Office (NMSLO) and partially owned by Merchant Livestock Company.

On December 2, 2022, corrosion of a flow line resulted in the release of approximately 1 barrel (bbl) of crude oil and 5 bbls of produced water into the reclaimed well pad area east of the wellhead/pumpjack. No fluids were recovered. The release occurred on the surface of a historical/reclaimed pit. Maverick reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on December 19, 2022. The release was assigned Incident Number NAPP2235373931.

Since the release occurred on a previously disturbed area of the well pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

#### SITE CHARATERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table 1, 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).

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com

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 was determined to be greater than 105 feet below ground surface (bgs) based on the nearest groundwater well/soil boring data. A soil boring (DTW-01) was drilled at the Site during December 2023 to a depth of 105 feet bgs. A field geologist logged and described soil continuously. The borehole lithologic log is included in Appendix A. No groundwater was encountered in the borehole to a depth of 105 feet bgs. The borehole was left open for over 72 hours to allow for potential infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies 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 AND INITIAL DELINEATION ACTIVITIES

During January and February 2023, Ensolum personnel were at the Site to delineate the release extent based on information provided on the Form C-141, the documented release extent, and visible observations. Potholes PH01 through PH10 were advanced via trackhoe within and around the release area to assess the extent of impacted soil. Soil from the potholes was field screened at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The potholes were advanced to depths ranging from 4 feet to 8 feet bgs. Indications of a historical pit, including increasing field screening results with depth and pieces of liner, were encountered in the potholes at depths ranging from 4 feet to 6 feet bgs. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix C. Based on field screening results, discrete delineation samples were collected from the potholes at depths ranging from 1-foot to 8 feet bgs. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS)



unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix C.

The 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 in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH10 indicated all COC concentrations were compliant with the Site Closure Criteria. However, chloride concentrations in potholes PH01 through PH05 and PH08 through PH10 exceeded the reclamation requirement for chloride in the top four feet and exceeded the most stringent Table I Closure Criteria at depths greater than 8 feet bgs where the historical pit was encountered. The laboratory analytical results are summarized on the attached Table 1.

The lateral and vertical extent of the December 2022 surface release was not able to be delineated to the most stringent Table I Closure Criteria due to a historical pit encountered beneath the release area. Based on the laboratory analytical results and presence of a historical pit beneath the release area, additional delineation activities were warranted.

#### **ADDITIONAL DELINEATION ACTIVITIES**

On December 7 and 8, 2023, Ensolum personnel returned to the Site to delineate the lateral and vertical extent of the historical pit to below the most stringent Table I Closure Criteria.

An air rotary drilling rig was used to advance boreholes at the locations of potholes PH01, PH02, PH03, and PH09, located within the historical pit. The boreholes were advanced to depths ranging from 24 feet to 46 feet bgs, to delineate the vertical extent of the historical pit. Soil from the potholes was field screened as described above. Final depth of the boreholes was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria.

Boreholes BH01 through BH03 were advanced via drilling rig to the south, east, and west of the historical pit and potholes PH06 and PH07, located north and west of the historical pit, were deepened with the drilling rig to delineate the lateral extent of the pit. Boreholes BH01 through BH03 and potholes PH06 and PH07 were advanced to a depth of 30 feet bgs. Soil from the potholes and boreholes was field screened as described above. Field screening results and observations from the potholes and boreholes were documented on lithologic/soil sampling logs, which are included in Appendix C.

Delineation soil samples were collected from the potholes and boreholes at depths ranging from the ground surface to 46 feet bgs. The soil samples were collected, handled, and analyzed as described above at Cardinal Laboratories in Hobbs, New Mexico. The delineation soil sample locations are presented on Figure 2. Photographic documentation was completed during the delineation activities. A photographic log is included in Appendix B.

Laboratory analytical results for the delineation samples from potholes PH01, PH02, PH03, and PH09, advanced within the historical pit, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria at depths ranging from 24 feet to 46 feet bgs, and provided vertical delineation of impacted soil within the historical pit. Laboratory analytical results for the delineation



samples from potholes PH06 and PH07 and boreholes BH01 through BH03, advanced around the historical pit, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria at depths ranging from the ground surface to 30 feet bgs, and provided lateral delineation of the historical pit. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

Based on the delineation data, a *Work Plan* was submitted to the NMOCD proposing excavation of the chloride-impacted soil to a depth of 4 feet bgs within the release area and historical pit area. Excavation was proposed to proceed laterally until sidewall samples confirmed all COC concentrations were compliant with the reclamation requirements in the top four feet. Sidewall samples were proposed to be collected at a frequency of every 200 square feet and floor samples at a frequency of every 500 square feet. Additionally, per private landowner request, a clay liner would be installed over the historical pit at a depth of 4 feet bgs within the open excavation, prior to backfilling. The proposed excavation and liner extent are presented on Figure 3. The *Work Plan* was approved by NMOCD on March 13, 2024.

#### **EXCAVATION ACTIVITIES**

During July and August 2024, Ensolum personnel were at the Site to oversee excavation of impacted soil as outlined in the approved *Work Plan*. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed utilizing a track-mounted backhoe and transport vehicles. The excavation was completed to depths ranging from 4 feet to 5 feet bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 500 square feet from the floor of the excavation and every 200 square feet from the 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 FS41 were collected from the floor of the excavation at depths ranging from 4 feet to 5 feet bgs. Composite soil samples SW01 through SW12 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 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 4.

Laboratory analytical results for the excavation floor samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for the excavation sidewall samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 20,300 square feet in areal extent. A total of approximately 3,900 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.

Upon completion of excavation activities and receipt of final laboratory analytical results, a geosynthetic clay liner was installed in the excavation, as requested by the private landowner. The clay liner was installed in the floor of the open excavation at a depth of 4 feet bgs to mitigate future impacts to the subsurface or surface soils. Photographic documentation was completed during the excavation and liner installation activities. A photographic log is included as Appendix B.



#### **RECLAMATION ACTIVITIES**

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

Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. The disturbed pasture area was seeded on September 6, 2024, with the NMSLO sandy loam sites seed mix at the rate specified in pounds of pure live seed (PLS) per acre.

Common Name (Variety)	PLS/Acre
Galleta grass (Viva, VNS, So.)	2.5
Little Bluestem (Cimarron, Pastura)	2.5
Blue Grama (Hachita, Lovington)	2.0
Sideoats Grama (Vaughn, El Reno)	2.0
Sand Dropseed (VNS, Southern)	1.0

The seed mix was distributed with a drill seeder. Photographs of the reclaimed excavation area are provided in Appendix B.

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

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

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

### **CLOSURE REQUEST**

As outlined in the approved *Work Plan*, excavation and liner installation activities were conducted at the Site to address the December 2, 2022, 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, where applicable. Additionally, the release was laterally and vertically delineated to below the most stringent



Table I Closure Criteria. Based on confirmed depth to groundwater greater than 100 feet bgs at the Site, and excavation and soil sampling activities completed as outlined in the approved *Work Plan*, no further remediation is required.

Excavation of impacted soil has mitigated impacts at this Site. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2235373931.

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

Sincerely,

**Ensolum, LLC** 

Aimee Cole

**Senior Managing Scientist** 

cc: Bryce Wagoner, Maverick Permian, LLC

New Mexico State Land Office Merchant Livestock Company

## Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Proposed Excavation and Liner Extent
Figure 4 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Referenced Well Records

Appendix B Photographic Log

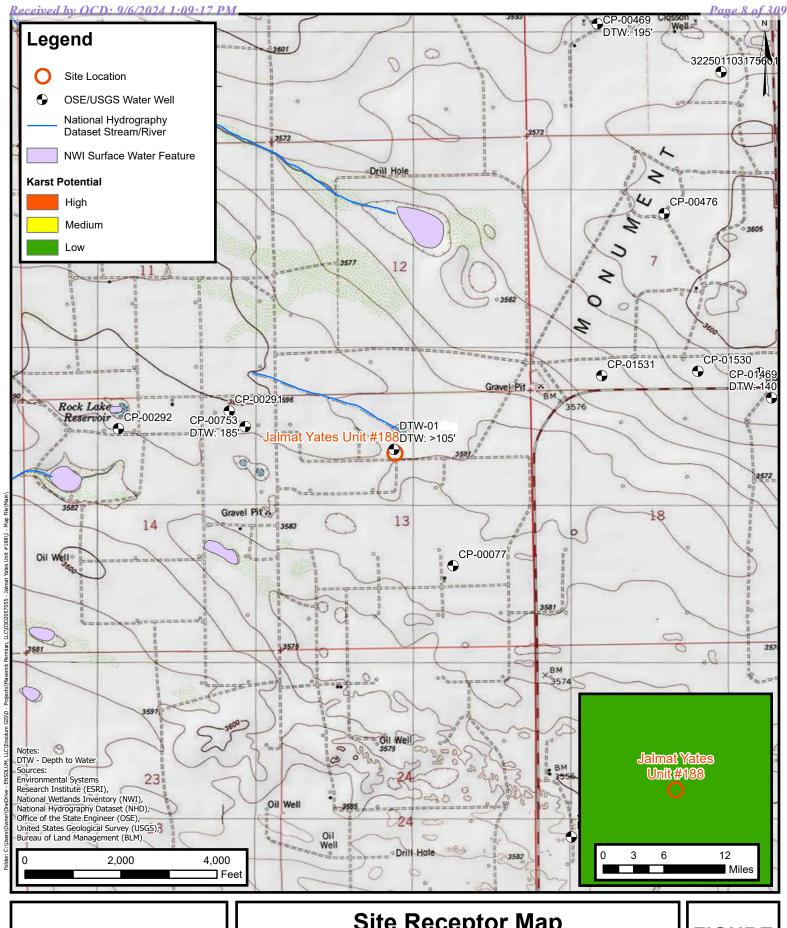
Appendix C Lithologic Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Correspondence



**FIGURES** 



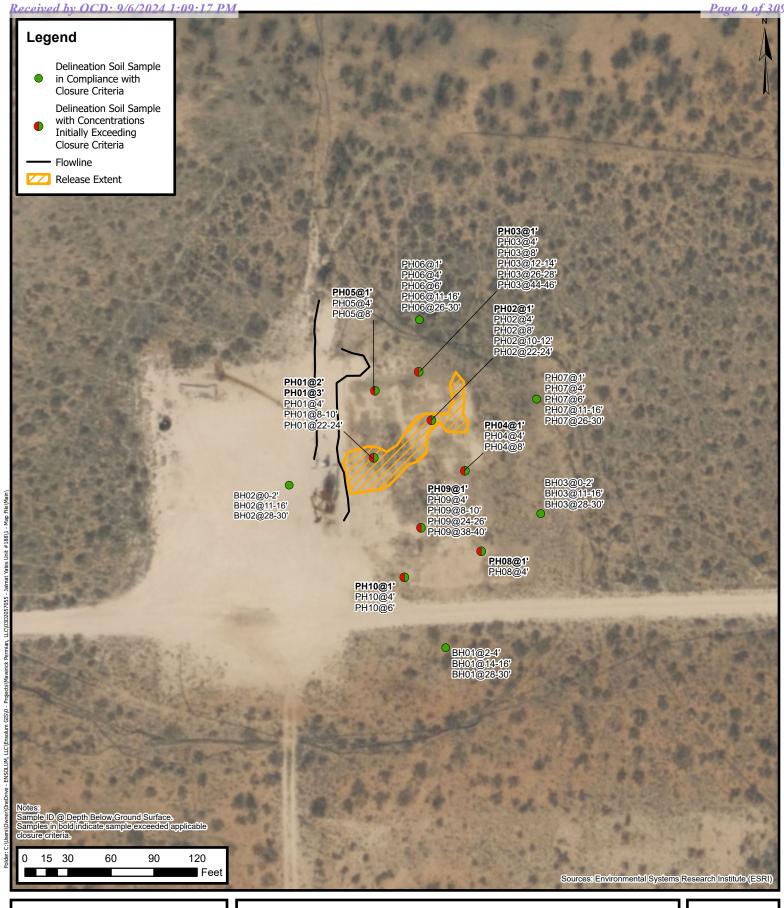


# **Site Receptor Map**

Maverick Permian, LLC Jalmat Yates Unit #188 Incident Number: NAPP2235373931 Unit C, Sec 13, T22S, R35E Lea County, New Mexico

**FIGURE** 

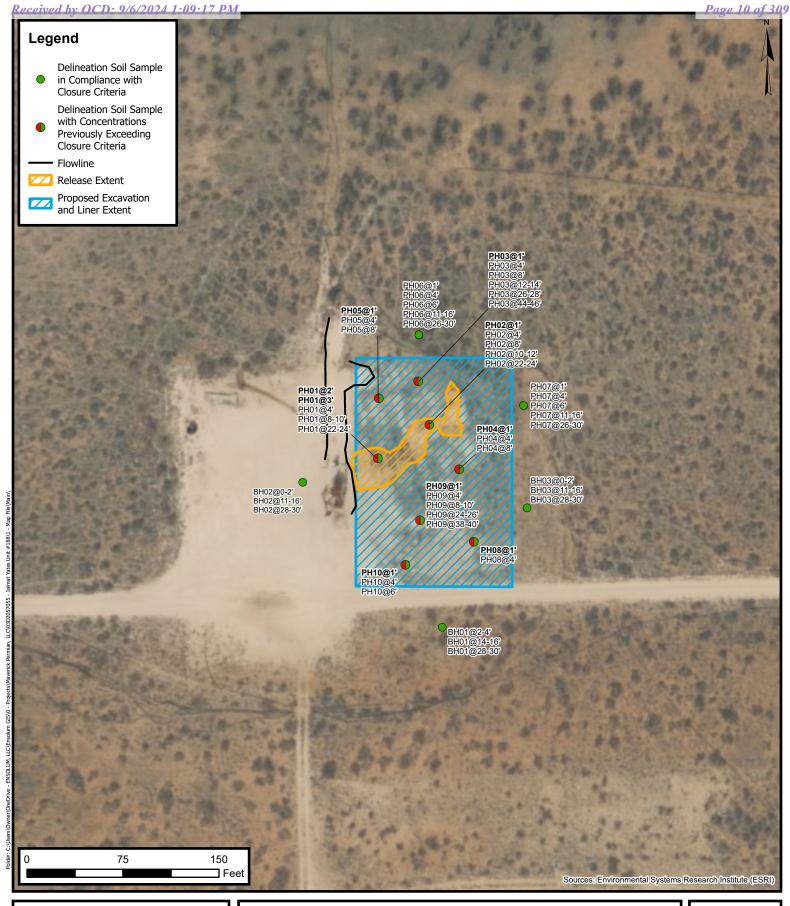
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# **Delineation Soil Sample Locations**

Maverick Permian, LLC Jalmat Yates Unit #188 Incident Number: NAPP2235373931 Unit C, Sec 13, T22S, R35E Lea County, New Mexico FIGURE 2

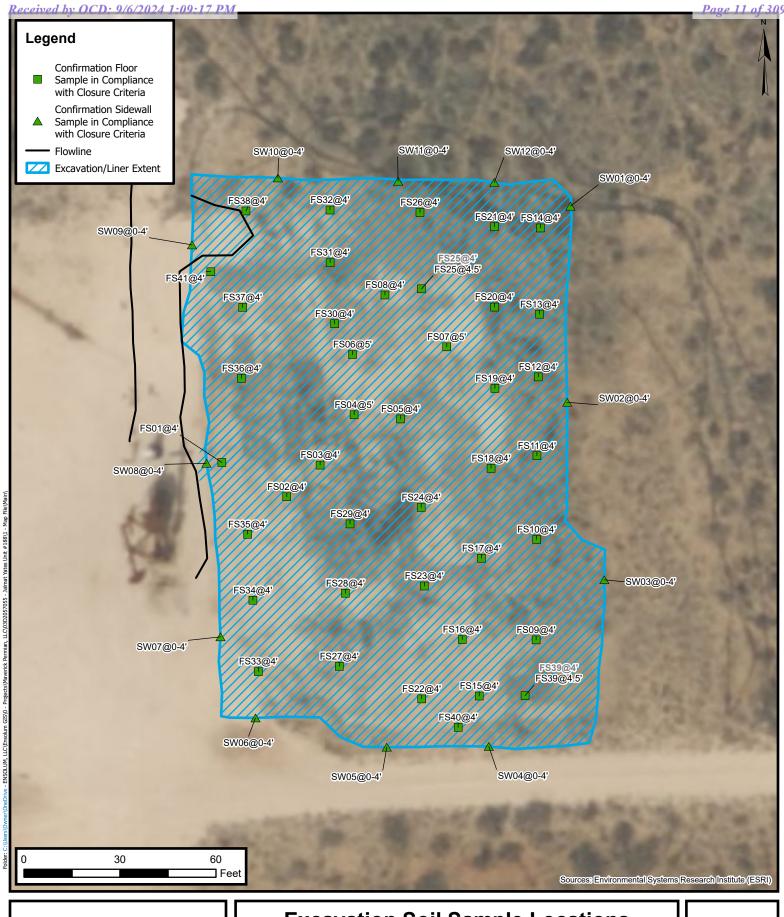




# **Proposed Excavation and Liner Extent**

Maverick Permian, LLC
Jalmat Yates Unit #188
Incident Number: NAPP2235373931
Unit C, Sec 13, T22S, R35E, Lea County, New Mexico
NA, New Mexico, 83815

FIGURE 3





# **Excavation Soil Sample Locations**

Maverick Permian, LLC
Jalmat Yates Unit #188
Incident Number: NAPP2235373931
Unit C, Sec 13, T22S, R35E, Lea County, New Mexico
NA, New Mexico, 83815

FIGURE 4

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**TABLES** 

Page 13 of 309



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Jalmat Yates Unit #188 Mayerick Permian, LLC

					verick Permian, County, New Me					
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tab	le I Closure Crite 19.15.29)	ria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil San	ples				
PH01*	1/9/2023	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	2,870
PH01*	1/9/2023	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,830
PH01	1/9/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,530
PH01	12/7/2023	8-10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,900
PH01	12/7/2023	22-24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
PH02*	1/9/2023	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	1,970
PH02	1/9/2023	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	3,160
PH02	1/9/2023	8	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	11,800
PH02	12/7/2023	10-12	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,000
PH02	12/7/2023	22-24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
PH03*	1/9/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,110
PH03	1/9/2023	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	2,530
PH03	1/9/2023	8	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	2,840
PH03	12/7/2023	12-14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,240
PH03	12/7/2023	26-28	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,240
PH03	12/7/2023	44-46	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH04*	1/9/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,210
PH04	1/9/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	10,100
PH04	1/9/2023	8	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	11,400
PH05*	1/9/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,930
PH05	1/9/2023	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,610
PH05	1/9/2023	8	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,180

Page 14 of 309



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

	Lea County, New Mexico										
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Tab	le I Closure Crite 19.15.29)	ria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000	
PH06*	2/23/2023	1	<0.00200	<0.00399	<50.4	<50.3	<50.2	<50.1	<50.0	11.9	
PH06	2/23/2023	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	19.4	
PH06	2/23/2023	6	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	27.8	
PH06	12/8/2023	11-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0	
PH06	12/8/2023	26-30	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0	
PH07*	2/23/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00	
PH07	2/23/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	14.0	
PH07	2/23/2023	6	<0.00199	<0.00398	<49.5	<49.6	<49.7	<49.8	<49.9	14.4	
PH07	12/8/2023	11-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	
PH07	12/8/2023	26-30	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	
PH08*	2/24/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	600	
PH08	2/24/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	4,810	
PH09*	2/24/2023	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	3,870	
PH09	2/24/2023	4	<0.00199	0.0558	54.2	518	<50.0	572	572	18,400	
PH09	12/7/2023	8-10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,200	
PH09	12/7/2023	24-26	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600	
PH09	12/7/2023	38-40	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272	
PH10*	2/24/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	618	
PH10	2/24/2023	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	2,660	
PH10	2/24/2023	6	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,180	

Page 15 of 309



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

				Lea	County, New Me	exico				
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)		ria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000
BH01*	12/8/2023	2-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
BH01	12/8/2023	14-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH01	12/8/2023	28-30	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH02*	12/8/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH02	12/8/2023	11-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH02	12/8/2023	28-30	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH03*	12/8/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH03	12/8/2023	11-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH03	12/8/2023	28-30	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
				Excava	ation Floor Soil S	amples				
FS01	7/29/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,320
FS02	7/29/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
FS03	7/29/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
FS04	7/29/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,280
FS05	7/29/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,120
FS06	7/29/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,700
FS07	7/29/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,520
FS08	7/29/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600
FS09	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,840
FS10	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,400

Page 16 of 309



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Lea County, New Mexico											
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Tab	le I Closure Crite 19.15.29)	ria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000	
FS11	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	14,200	
FS12	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,400	
FS13	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,460	
FS14	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304	
FS15	8/7/2024	4	<0.050	<0.300	<10.0	149.0	22.6	149.0	171.6	16,400	
FS16	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,640	
FS17	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,660	
FS18	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	14,600	
FS19	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	14,200	
FS20	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	17,200	
FS21	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	704	
FS22	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,600	
FS23	8/7/2024	4	<0.050	<0.300	<10.0	62.0	<10.0	62.0	62.0	2,680	
FS24	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512	
FS25	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	24,000	
FS25	8/15/2024	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,680	
FS26	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,800	
FS27	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,730	
FS28	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,320	
FS29	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,530	
FS30	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,400	

Page 17 of 309



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

					County, New Me					
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tab	le I Closure Crite 19.15.29)	ria (NMAC	10	50	NE	NE	NE	1,000	2,500	20,000
FS31	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,260
FS32	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,640
FS33	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS34	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,120
FS35	8/7/2024	4	<0.050	<0.300	12.0	<10.0	<10.0	12.0	12.0	3,680
FS36	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,320
FS37	8/7/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,520
FS38	8/7/2024	4	<0.050	<0.300	13.5	<10.0	<10.0	13.5	13.5	2,440
FS39	8/7/2024	4	<0.050	1.00	38.1	523	124	561	685	20,400
FS39	8/15/2024	4.5	<0.050	<0.300	<10.0	22.9	<10.0	22.9	22.9	6,560
FS40	8/15/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,440
FS41	8/15/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,240
				Excavat	ion Sidewall Soil	Samples				
SW01*	8/7/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW02*	8/12/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW03*	8/15/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW04*	8/15/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW05*	8/15/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW06*	8/12/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW07*	8/7/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,720
SW07*	8/15/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

Page 18 of 309



# **TABLE 1**

# SOIL SAMPLE ANALYTICAL RESULTS

Jalmat Yates Unit #188 Maverick Permian, LLC Lea County, New Mexico

	Low County, Now Mexico										
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000	
SW08*	8/12/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
SW09*	8/15/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320	
SW10*	8/7/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480	
SW11*	8/12/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160	
SW12*	8/7/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	
				В	ackfill Soil Samp	les					
Topsoil	8/22/2024	-	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
Caliche	8/22/2024	-	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	

## 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 Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable. GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

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



**APPENDIX A** 

Referenced Well Records

								Sample Name: DTW-01	Date: 12/7/23
				C		LU	M	Site Name: Jalmat 188	
								Incident Number: NAPP223537393	31
								Job Number: 03D2057055	
	LI	THOLO	GIC	/ SOIL S	SAMPLIN	G LOG		Logged By: Ronni Hayes	Method: Air rotary
Coordi	nates: 32	2.395757	, -103	3.321849				Hole Diameter: 6"	Total Depth: 105'
						epth of 105'	bgs. No v	rater was observed in the soil borin	g after 72 hours.
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Dry	-	-	N		- [	0	SP-SM	(0-10'), SAND, dry, fine to ve no odor, some subround sm poorly graded with silt.	· -
Dry	-	-	N	-	-	10	SP-SM	(10-30'), SAND, dry, fine to v no odor, some subround sm poorly graded with silt.	, -
Dry	-	-	N	-	- I	20			
Dry	-	-	N	-	- [	30		(30-40') Color change to whi	
Dry	-	-	N	-	- [	40	SP-SM	(40-50'), SAND, dry, fine grai no odor, some subround sm brown, poorly graded with s	all gravel, reddish
Dry	-	-	N	-	- [	50	SP-SM	(50-70'), SAND, dry, very fine no odor, little subround sma poorly graded with silt.	_
Dry	-	-	N	-	- [	<u>†</u> 60			
Dry	-	-	N	-	- I	70		(70-80') Color change to red	
Dry	-	-	N	-	- [	<u> </u>		(80-105') SAND, very fine grasome small gravel, reddish bwith silt, noncohesive	rown, poorly graded
Dry	-	-	N	-	- [	90	SP-SM	(90-105') Color change to red	ddish tan.
Dry	-	-	N	-	- [	100 1			
Dry	-	-	N	-	- [	105			

# STATE ENGINEER OFFICE WELL RECORD

475984

# Section 1. GENERAL INFORMATION

	and State	e Address — Box Eum	ice, M	38231				
Well was o	Irilled under Per	mit No. CP-	·753		and is located	in the:	.***	
a	¼	4 <u>NE</u> 4_	NE ¼ of Se	ction 14	Township	<b>225</b> Rar	1ge35	N.M.P.
b. 7	ſract No	of Map N	o	of the				
c. I	.ot No	of Block No.		of the			<u> </u>	
S	ubdivision, reco	orded in	Te	<b>a</b>	ounty.			
		feet, Y=			M. Coordinate	System		Zone
(B) Dril	ling Contractor.	W. L. Va	nNoy			License No	WD_208	
		P.O. Box	,					
Drilling B	egan <b>7-11</b>	<b>-90</b> Cor	npleted <b>7-</b>	18-90	_ Type tools	Cable	Size of hole	10
						ft. Total depth		15
		k shallow				upon completion		35
Complete	1 Well is AAA						or wen	
D	epth in Feet	Thicknes	ss		R-BEARING ST		Estimated	d Yield
From	n To	in Feet	1	Description of	Water-Bearing F	formation	(gallons per	minute)
19	5 21	10 15	; wat	ter bearing	sand		23	
								-
<u> </u>	<u></u>		Continu	2 DECORD	OF CASING	<u></u>	L	
Diame	ter Pound	s Threads		n 3. RECORD in Feet	Length	Tune of She	Perf	orations
(inche	es) per foo	ot per in.	Тор	Bottom	(feet)	Type of Sho	From	To
5	5"	PVC	0	215			201	21:
							•	
		Sec	tion 4. RECO	RD OF MUDD	ING AND CEM	ENTING	ω	
	epth in Feet	Hole	Sack	ks C	ıbic Feet	ENTING META	of Placement	
. D			Sack	ks C		Man Man	of Placement	
		Hole	Sack	ks C	ıbic Feet	SAMUTA FE	SEP 7	<u> </u>
		Hole	Sack	ks C	ıbic Feet	SANTA FE NE	SEP 7. F	
		Hole	Sack	ks C	ıbic Feet	SANTA FE NEW	SEP 7	<u> </u>
		Hole	Sack	ks C	ıbic Feet	SANTA FE NEW ME	SEP 7 AM 1	<u> </u>
		Hole	Sack of M	ks C	ubic Feet Cement	SANTA FE NEW ME	SEP 7 AM 1	<u> </u>
From Plugging (	n To	Hole Diameter	Sack of M	on 5. PLUGGIN	ubic Feet Cement	SANTA FE NEW MEXICO	SEP 7 AM 10 02	
Plugging (	n To	Hole Diameter	Sack of M	ks Ciud ol	ubic Feet Cement	SANTA FEINEW MEXICO  Depth in	SEP 7 AM 10 02	Cubic Feet
Plugging ( Address - Plugging !	Contractor	Hole Diameter	Sack of M	ks Ciud ol	G RECORD	SANTA FE NEW MEXICO	SEP 7 AM 10 02	
Plugging ( Address - Plugging ! Date Well	Contractor	Hole Diameter	Sack of M	ks Ciud ol	G RECORD  No.  1 2	SANTA FEINEW MEXICO  Depth in	SEP 7 AM 10 02	Cubic Feet
Plugging ( Address - Plugging I) Date Well	Contractor	Hole Diameter	Sack of M	ks Ciud ol	GG RECORD  No.  1 2 3	SANTA FEINEW MEXICO  Depth in	SEP 7 AM 10 02	Cubic Feet
Plugging ( Address - Plugging ! Date Well	Contractor	Hole Diameter	Sack of M	entative	G RECORD  No.  1 2 3 4	Depth in	SEP 7 AM 10 02	Cubic Feet
Plugging ( Address - Plugging ! Date Well Plugging a	Contractor ——  Method —— Plugged ——  Approved by:	Hole Diameter	Sack of M	entative	GG RECORD  No.  1 2 3	Depth in	SEP 7 AM 10 02	Cubic Feet
Plugging ( Address - Plugging ! Date Well Plugging a	Contractor	Hole Diameter	Sack of M	on 5. PLUGGIN	G RECORD  No.  1 2 3 4	Depth in Top	SEP 7 AM 10 02	Cubic Feet of Cement

Section	6.	LOG	OF	HOLE

			Section 6. LOG OF HOLE
From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
FIOII	10		
0	10	10	Top Soil
10	100	90	Caliche
100	195	95	Sandy caliche
195	210	15	Water bearing sand
210	215	5	Red Bed
			11C0
			100 CO
			15-0 15-0 05-000 05-00 05-00 05-00 05-00 05-00 05-00 05-00 05-00 05-00 05-00 0
			SULT EE A
			मा से
	,		8 8 90
	-		
,			
-			
			[ · · · · · · · · · · · · · · · · · · ·

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.



**APPENDIX B** 

Photographic Log



Photographic Log Maverick Permian, LLC Jalmat Yates Unit #188 NAPP2235373931





Photograph 1 Date: 12-19-2022

Description: Soil staining during initial site visit

View: North

Photograph 2 Date: 1-9-2023

Description: Delineation activities-backhoe

View: East



Photograph 3

Date: 12-7-2023

Description: Delineation activities-air rotary

View: East



Photograph 4

Date: 12-8-2023

Description: Delineation activities-air rotary

View: South



Photographic Log Maverick Permian, LLC Jalmat Yates Unit #188 NAPP2235373931





Photograph 5 Date: 08-02-2024

Description: Excavation activities

View: South

Photograph 6 Date: 08-02-2024

Description: Excavation activities

View: Southwest





Photograph 7 Date: 08-02-2024

Description: Excavation activities

View: West

Photograph 8 Date: 08-22-2024

Description: Clay liner installation

View: West



Photographic Log Maverick Permian, LLC Jalmat Yates Unit #188 NAPP2235373931





Photograph 9 Date: 08-22-2024

Description: Clay liner installation

View: Northeast

Date: 09-06-2024 Photograph 10

Description: Backfilled excavation

View: Northeast





@ 72°E (T) @ 32°23'44"N, 103°19'18"W ±13ft ▲ 3604ft 06 Sep 2024, 12:22:15

Date: 09-06-2024 Photograph 12 Description: Backfilled excavation and seeding activities Description: Backfilled excavation and seeding activities View: Northeast



APPENDIX C

Lithologic Soil Sampling Logs

	Sample Name: PH01 Date: 12-7-23		
<b>ENSOLUM</b>	Site Name: Jalmat 188		
E N 3 O L O M	Incident Number: NAPP223537393	1	
	Job Number: 03D2057055		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ronni Hayes	Method: Air Rotary	
Coordinates: 32.395583103.321673	Hole Diameter: 6"	Total Depth: 24' bgs	

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

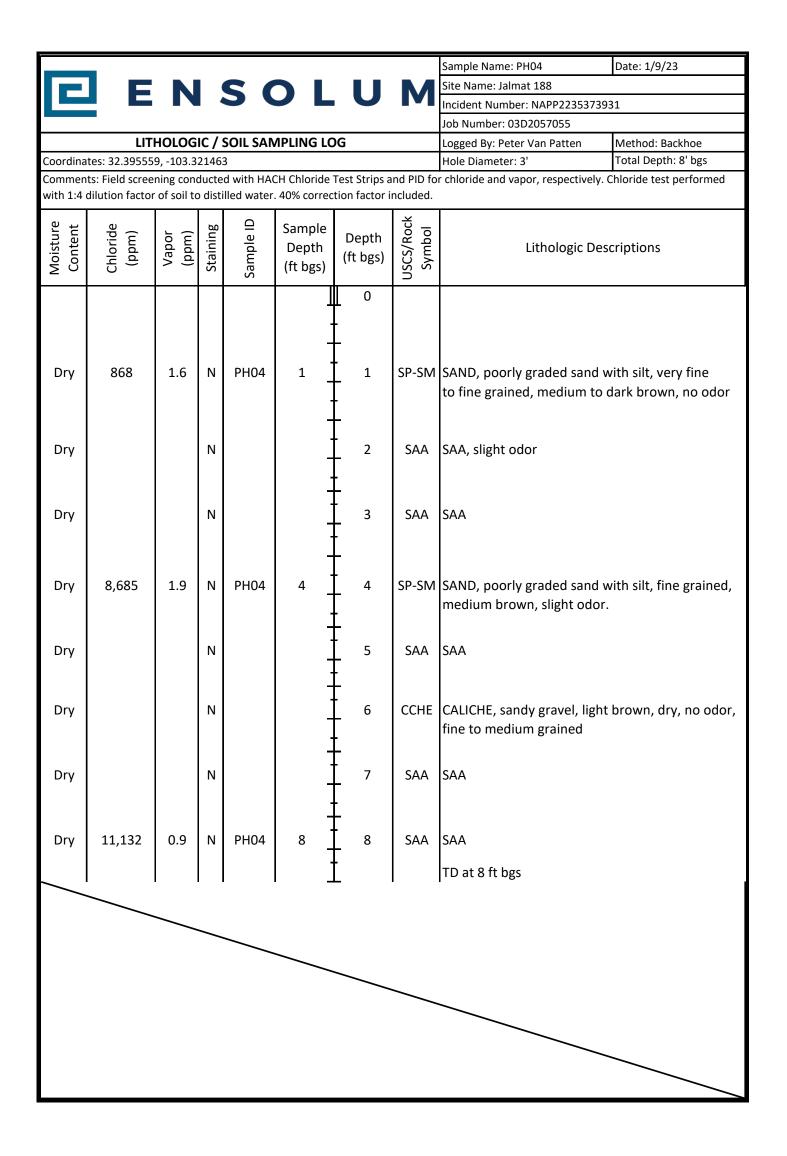
l .	,			1				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0		
Dry	1,092	0.2	-		- -	1	SM	SAND, silty sand, fine grained, no odor, dry, med to dark brown
Dry	1,377	0.6	-	PH01	2	2	SM	SAND, silty sand with gravel, fine grained, no odor, medium brown, dry
Dry	1,831	1.0	-	PH01	3 _	3	SAA	SAA
Dry	1,831	1.0	-	PH01	4 _	4	ССНЕ	CALICHE, sandy caliche, fine to coarse grained, med brown, dry, no odor
Dry	3,757.6	-	-		- - -	6-8	CCHE	
Dry	9,206.4	-	-	PH01	8-10	8-10	SAA	SAA, color change to reddish brown
Dry	4,832.8	-	N		- - -	10-12	SM	SAND, silty sand with gravel, very fine to fine grained, reddish tan, no odor, dry
Dry	6,160	-	N		- - - -	12-14	SAA	SAA
Dry	5,241.6	-	N		- - - -	14-16	SAA	SAA
Dry	3,035.2	-	N		- - -	16-18	SM	SAND, silty sand, very fine to fine grained, reddish tan, no odor, dry
Dry	1,299.2	-	N		- - - -	18-20	SAA	SAA
Dry	862.4	-	N		- - -	20-22	SAA	SAA
Dry	470.4	-	N	PH01	22-24 	22-24	SP-SM	SAND, silty sand with gravel, very fine to fine grained, reddish brown, no odor, dry
					_	Ĺ		TD at 24' bgs

								Sample Name: PH02	Date: 12-7-23
				6	O L			Site Name: Jalmat 188	•
			A	3	U L		IAI	Incident Number: NAPP2235373	3931
								Job Number: 03D2057055	
	LI	THOLO	GIC	/ SOIL SA	AMPLING I	Logged By: Ronni Hayes	Method: Air Rotary		
Coordi	nates: 32.39	5654, -10	03.32	1536			Hole Diameter: 6"	Total Depth: 24' bgs	
H						for chloride and vapor, respective	vely. Chloride test performed		
with 1:	:4 dilution fa	ctor of so	oil to	distilled wa	ater. 40% cor	d. -			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
					_	_ 0			
Dry	1,590	1.4	-	PH02	1 _	1	SM	SAND, silty sand, fine grain to dark brown	ned, no odor, dry, med
Dry	2,576	1.7	-		_	_ 2	SAA		
Dry	3,188	0.7	-		_	3	SM	SAND, silty sand with grav medium to light brown, di	
Dry	2,245	0.9	-	PH02	4	4	ССНЕ	CALICHE, sandy caliche, firmedium brown, dry, no or	ne to coarse grained,
Dry	5,364	2.1	-		_	_ 5	SAA	SAA	<del></del> -
Dry	13,232	1.5	-		_	6	SAA	SAA	
Dry	12,129	1.3	-		- - -	- _ 7 -	ССНЕ	CALICHE, sandy caliche, firmedium brown, dry, no o	=
Dry	14,476	1.3	1	PH02	8	- - 8 -	SAA	SAA, color change to redd	ish brown
Dry	4,093.60	-	N	PH02	10-12	10-12 -	SM	SAND, silty sand with grav grained, dry, no odor, red	·
Dry	2,828	-	N		- - -	12-14	SAA	SAA	
Dry	1,820.40	-	N		- - - -	- _ 14-16 -	SAA	SAA	
Dry	2,144.80	-	N		- - - -	- 16-18 -	SAA	SAA, color change to med	ium brown
Dry	1,204	-	N		- - -	18-20	SAA	SAA, color change to redd	ish brown
Dry	1,108.80	-	N		- - -	20-22	SAA	SAA	
Dry	526.4	-	N	PH02	22-24	22-24	SP-SM	SAND, silty sand with grav grained, reddish tan, no o TD at 24' bgs	

	Sample Name: PH03	Date: 12-7-23
<b>ENSOLUM</b>	Site Name: Jalmat 188	
E IN 3 O L O M	Incident Number: NAPP2235373931	
	Job Number: 03D2057055	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ronni Hayes	Method: Air Rotary
Coordinates: 32.395745, -103.321564	Hole Diameter: 6"	Total Depth: 46' bgs

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0		
Dry	1,422	1.3	-	PH03	1 _	1	SM	SAND, silty sand, fine grained, no odor, dry, med to dark brown
Dry	1,892	1.5	-	PH03	4 -	4	CCHE	CALICHE, sandy caliche, fine to coarse grained, medium brown, dry, no odor
Dry	1,892	1.0	-	PH03	8 _	8	SM	SAND, silty sand with gravel, very fine to coarse grained, dry, no odor, reddish brown
Dry	2,828	-	N		-	10-12	SAA	granica, ary, no odor, redaish aroun
Dry	3259.2	-	N	PH03	12-14	12-14	SAA	SAA
Dry	2,144.8	-	N		-	14-16	SM	SAND, silty sand with gravel, fine to medium
Durin	4.452		N.		-	46.40	6.0.4	grained, reddish tan, no odor, dry
Dry	4,452	-	N		-	16-18	SM	SAND, silty sand, very fine to medium grained, no odor, dry, reddish brown
Dry	3,259.2	-	N		-	18-20	SAA	SAA
Dry	3,511.2	-	N		_	20-22	SAA	SAA
Dry	3,511.20	-	N		-	22-24	SAA	SAA
Dry	3,035.20	-	N		-	24-26	SM	SAND, silty sand, very fine, no odor, dry, medium
Dry	6,160	-	N	PH03	26-28	26-28	SAA	grained SAA
Dry	5,241.60	-	N		-	28-30	SM	SAND, silty sand, very fine to medium grained, no
Dry	4,093.6	-	N		-	30-32	SAA	odor, dry, tan SAA
Dry	3,449.60	-	N		-	32-34	SAA	SAA
Dry	1,741.6	-	N		-	34-36	SAA	SAA
Dry	1,108.80	-	N		-	36-38	SAA	SAA
Dry	912.8	-	N		- -	38-40	SM	SAND, silty sand, very fine to fine grained, no odor, dry, light brown
Dry	649.6	-	N		- -	40-42	SAA	ary, light brown
Dry	588	-	N		- -	42-44	SAA	
Dry	414.6	-	N	PH03	44-46 <u> </u>	44-46	SAA	SAA, color change to tan TD at 46' bgs
I			_					



								Sample Name: PH05	Date: 1/9/23	
								Site Name: Jalmat 188	Date. 1/3/23	
		: N	1	5 (	O L	. U	M	Incident Number: NAPP22353	72021	
-			_					Job Number: 03D2057055	75951	
	117	THOLO	aic 4	SOIL SA	MPLING L	ng		Logged By: Ronni Hayes	Method: Air Rotary	
Coordi	nates: 32.395				IVIPLING	Hole Diameter: 3'	Total Depth: 8' bgs			
					ACH Chloride	and PID fo		rely. Chloride test performed with		
	ution factor of	_				or emorrae and vapor, respectiv	ery. Cinoriae test performed with			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	: Descriptions	
Dry	2,497	1.3	N	PH05	1 - - 1 - -	] 0 - - - 1 	SM	SAND, poorly sorted san odor, dry, med to dark b	d with silt, fine grained, no rown	
					- - -	- 2 -	SAA	SAA		
					- - -	- _ 3 -	SAA	SAA		
Dry	1,764	1.2	N	PH05	4 _	4	ССНЕ	CALICHE, sandy caliche, medium brown, dry, no	=	
					- - -	- _ 5 -	SAA	SAA, light brown		
					- - -	6 -	SAA	SAA		
					- - -	- 7 -	SP-SM	SAND, poorly sorted san coarse grained, reddish l	_	
Dry	2,872.00	0.6	N	PH05	8 _	- 8 -	SM	SAND, silty sand with gragrained, dry, no odor, re	·	
						[		TD at 8 ft bgs		

								Sample Name: PH06	Date: 12-8-23	
	7							Site Name: Jalmat 188	Date: 12 0 23	
			N	5	OL	_ U	M	Incident Number: NAPP22353739	31	
								Job Number: 03D2057055	31	
		LITHOL	OGI	C / SOIL S	SAMPLING	Logged By: Ronni Hayes	Method: Air Rotary			
Coordi				03.321561		Hole Diameter: 6"	Total Depth: 30' bgs			
Comm	ents: Fiel	ld screen	ing co	onducted w	ith HACH Ch	PID for chloride and vapor, respec	ctively. Chloride test			
perfor	med with	1:4 dilu	tion f	actor of soi	l to distilled	n factor included.				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
					1	1 0				
Dry	<168	0.0	N	PH06	1 - -	1 - -	SM	SAND, silty sand, medium-d no odor, dry	ark brown, fine grained,	
Dry	<168	0.0	N		2 _	2 -	SM	SAND, silty sand with grave no odor, medium-dark brov		
Dry	<168	0.0	N		3 _	3	SM	SAA		
Dry	<168	0.0	N	PH06	4 _	4	ССНЕ	CALICHE, sandy caliche, fine tan-light brown, dry, no odd	=	
Dry	<168	0.0	N		5 -	- - 5 -	CCHE	CALICHE, sandy caliche, fine tan-light brown, dry, no odd		
Dry	<168	0.0	N	PH06	6 _	_ _ 6-11 _	ССНЕ	SAA		
Dry	<156	-	N	PH06	11-16	11-16 -	SP-SM	SAND, silty sand with grave reddish brown, dry	l, fine grained, no odor	
Dry	<156	-	N		- -	16-21	SAA	SAA		
Dry	<156	-	N		- - -	21-26 21-26	SAA	SAA		
Dry	<156	-	N	PH06	26-30	26-30 _	SP-SM	SAND, silty sand with grave grained, tan color, dry, no c		
						[		TD at 30' bgs		
			_				_			

								Sample Name: PH07 Date: 12-8-23		
				C			R.A	Site Name: Jalmat 188		
			N	3	OL	_ U	V	Incident Number: NAPP2235373931		
								Job Number: 03D2057055		
		LITHOL	OGIO	C / SOIL S	AMPLING	Logged By: Ronni Hayes Method: Air Rotary				
Coordi		2.395692,				Hole Diameter: 6" Total Depth: 30' bgs				
					ith HACH Ch	PID for chloride and vapor, respectively. Chloride test				
perfor	med with	n 1:4 dilut	ion fa	actor of soi	l to distilled	water. 40%	correction	n factor included.		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
					1	0				
					_	-				
Dry	<168	0.0	N	PH07	1 -	1 - 1 -	SM	SAND, silty sand with gravel, very fine-fine-medium grained, medium-dark brown, no odor, dry		
Dry	<168	0.0	N		2 - -	2 -	SM	SAND, silty sand, very fine-fine grained, medium brown-tan, no odor, dry		
Dry	<168	0.0	N		3	- - 3 -	SM	SAND, silty sand with gravel, fine-medium grained, medium brown-tan, poorly graded, no odor, dry		
Dry	<168	0.0	N	PH07	4 _	- - 4 -	ССНЕ	CALICHE, sandy caliche, fine-med coarse grained, tan-light brown, dry, no odor		
Dry	<168	0.0	N		5 -	- - 5 -	ССНЕ	CALICHE, sandy caliche, fine-med coarse grained, tan, dry, no odor		
Dry	<168	0.0	N	PH07	6	6-11	ССНЕ	SAA		
Dry	<156	-	N	PH07	11-16	11-16	SM	SAND, silty sand mix, very fine to fine grained, no odor, dry, tan to light brown color		
Dry	<156	-	N		-	16-21 	SM	SAA		
Dry	<156	-	N		- - -	- 21-26	SM	SAND, silty sand mix, some gravel, very fine to fine grained, no odor, dry, tan color		
Dry	<156	-	N	PH07	26-30	26-30	SM	SAND, silty sand mix, very fine to fine grained, no odor, dry, tan to light brown color		
						_		TD at 30' bgs		
			_							

									la
								Sample Name: PH08	Date: 2-4-23
		E	N	S	OL	_ U	M	Site Name: Jalmat 188	124
						Incident Number: NAPP22353739	31		
		LITUO	001	. /	A NADI INI		Job Number: 03D2057055	Markadi Daalia	
C					AMPLING	Logged By: Julianna Falcomata	Method: Backhoe Total Depth: 5' bgs		
		2.395400,			ii+h UACU Ch	Jarida Tast 9	String and	Hole Diameter: 3' PID for chloride and vapor, respec	
							n factor included.	ctively. Chioride test	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
					I - -	<u> </u>			
Dry	649	0.3	N	PH08	1 _	1		SAND, poorly graded sand v grained, medium to dark br	= -
Dry	2676	0.2	N		- - -	2	SAA	SAA	
Dry	3852	0.2	N		- - -	- - -		SAND, poorly graded sand v fine to fine grained, mediur no odor	
Dry	4552	0.2	N	PH08	4	4	SAA	SAA	
Dry	4188	3.2	N		- - -	- - -	SP-SC	SAND, poorly graded sand was fine to fine grained, dark brodor	
					_	_		TD at 5' bgs due to visible ir pit.	ndications of a historical

# Sample Name: PH09 Date: 12-7-23 Site Name: Jalmat 188 Incident Number: NAPP2235373931 Job Number: 03D2057055 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Ronni Hayes Hole Diameter: 6" Total Depth: 42' bgs

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry Dry Dry	2872 3,533 8013	0.3 0.3 4.9	2 2 2 2	PH09	1 -	0 1 - 2 - 3 - 4		(1-4') SAND, poorly graded sand with silt, very fine to fine grained, medium to dark brown, strong odor 2-4' bgs
Damp	15,876	415	N	PH09	4 _	_ 4 -	SAA	Visible indication of a historical pit at 4' bgs.
Dry	7,829	-	N		_	6-8	CCHE	CALICHE, sandy gravel, light brown, dry, no odor,
Dry	9,206	-	N	PH09	8-10	8-10	SAA	fine to medium grained SAA
Dry	6,670	-	N		-	10-12	SAA	SAA
Dry	6160	-	N		_	12-14	SAA	SAA
Dry	7,229.6	-	N		_	14-16	SM	SAND, silty sand with gravel, fine to medium
Dry	5,684	-	N		- -	- 16-18	SM	grained, reddish tan, no odor, dry SAND, silty sand, very fine to medium grained, no
Dry	5,684.0	-	N		-	18-20	SAA	odor, dry, reddish brown SAA
Dry	8,489.6	-	N		-	20-22	SAA	SAA
Dry	7,229.60	-	N		-	22-24	SAA	SAA
Dry	3,511.20	-	N	PH09	24-26	24-26	SM	SAND, silty sand, very fine, no odor, dry, medium
Dry	2,828	-	N		-	26-28	SAA	grained SAA
Dry	2,637.60	-	N		_	28-30	SM	SAND, silty sand, very fine to medium grained, no
Dry	1,204.0	-	N		_	30-32	SAA	odor, dry, tan SAA
Dry	2,144.80	-	N		-	32-34	SAA	SAA
Dry	1,299.2	-	N		-	34-36	SAA	SAA
Dry	862.40	-	N		_	36-38	SAA	SAA
Dry	319.2	-	N	PH09	38-40	38-40	SM	SAND, silty sand, very fine to fine grained, no odor,
Dry	470.4	-	N		- -	<u>40-42</u>	SAA	dry, light brown TD at 42' bgs

	Site Name: Jalmat 188	
L ENSOLUM	Incident Number: NAPP2235373933	l
	Job Number: 03D2057055	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Julianna Falcomata	Method: Backhoe
Coordinates: 32.395355, -103.321602	Hole Diameter: 3' Total Depth: 6' bgs	

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry	414	0.6	N	PH10	1 _	1	SM	SAND, silty sand with gravel, very fine to fine to medium grained, medium brown, no odor
Dry	3,651	0.7	N		-   -	2	SAA	SAA except tan to medium brown color
Dry	2,329	0.7	N			3	SAA	SAA except tan to reddish brown color
Dry	2,676	0.6	N	PH10	4	4	SAA	SAA, except reddish color
Dry	1036	0.6	N		-   - -	5	SAA	SAA
Dry	470	0.5	N	PH10	6	6	SAA	SAA
					1 1	<u>'</u>		TD at 6' bgs

								Sample Name: BH01	Date: 12-8-23
	7			•			<b>B.</b> 4	Site Name: Jalmat 188	1
			N	3	OL	_ U	V	Incident Number: NAPP223537393	31
								Job Number: 03D2057055	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Ronni Hayes	Method: Air Rotary
Coord	inates: 32	2.395223	, -103	.321510				Hole Diameter: 6"	Total Depth: 30' bgs
Comm	ents: Fie	ld screen	ing co	nducted w	ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respect	ively. Chloride test
perfor	med with	1:4 dilut	tion fa	actor of soi	l to distilled	water. 40%	correction	n factor included.	
Moisture Content	)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
Dry	<156		N		1	0-2	SM	SAND, silty sand with gravel brown, no odor, dry	, fine grained, medium
Dry	156		N	BH01	2-4	2-4	SAA	SAA	
Dry	<156		N			4-6	ССНЕ		to coarse grained, med
Dry	<156		N		-	6-8	SAA	brown, dry, no odor SAA	
Dry	<156		N		_	8-10	SM	SAND, silty sand, very fine to	o medium grained, med
Dry	<156		N			10-12	SAA	to dark brown, no odor, dry SAA	
Dry	<156		N			12-14	SAA	SAA	
Dry	<156		N	BH01	14-16	14-16	SM	SAND, silty sand with gravel	
Dry	<156		N		-	16-18	SM	grained, reddish tan, no odd SAND, silty sand, very fine to	
Dry	<156		N		-	18-20	SAA	odor, dry, reddish brown SAA	
Dry	<156		N		-	20-22	SAA	SAA	
Dry	<156		N		-	22-24	SAA	SAA	
Dry	<156		N		-	24-26	SM	SAND, silty sand, very fine, r	no odor, dry, medium
Dry	<156		N		<u>-</u>	26-28	SAA	grained SAA	
Dry	<156		N	BH01	28-30	28-30	SM	SAND, silty sand, very fine to odor, dry, tan	o medium grained, no
						t		TD at 30' bgs	_
`									
	_	<u> </u>							
								_	

								C   N   B::00	D + 42.0.00
					-			Sample Name: BH02	Date: 12-8-23
		E	N	S	OI	_ U	M	Site Name: Jalmat 188	224
			_			_		Incident Number: NAPP22353739	131
		LITUO	00:	. /		100		Job Number: 03D2057055	land the second
C1					AMPLING	LUG		Logged By: Ronni Hayes	Method: Air Rotary
		2.395534,			i+h UACU Ch	larida Tast C	trins and	Hole Diameter: 6" PID for chloride and vapor, respec	Total Depth: 30' bgs
			-				•	factor included.	tivery. Chiloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Dry	352.8		N	BH02	0-2	0-2	SM	SAND, silty sand with grave grained, medium to dark be	
Dry	<156		N		- - - -	2-4 2-4	SAA	SAA	
Dry	<156		N		- - -	- 4-6 -	CCHE	CALICHE, sandy caliche, fing grained, med brown, dry, n	
Dry	<156		N		- 1 I I	6-11 -	SAA	SAA	
Dry	<156		N	BH02	11-16	11-16	SM	SAND, silty sand, very fine t grained, reddish brown, no	
Dry	<156		N		- - -	16-21 _	SAA	SAA	
Dry	<156		N		- - -	21-26 	SAA	SAA	
Dry	<156		N	BH02	28-30	28-30	SM	SAND, silty sand, very fine t grained, tan to light brown	
					_	_		TD at 30' bgs	

mat 188 per: NAPP2235373931 page: 8H03 per: NAPP2235373931 page: 9H04 per: NAPP2235373931 pag								
Der: NAPP2235373931 D3D2057055 Inni Hayes Method: Air Rotary Total Depth: 30' bgs e and vapor, respectively. Chloride test id.  Lithologic Descriptions  sand with gravel, very fine to fine								
nni Hayes Method: Air Rotary Total Depth: 30' bgs e and vapor, respectively. Chloride test d.  Lithologic Descriptions  sand with gravel, very fine to fine								
Method: Air Rotary Total Depth: 30' bgs e and vapor, respectively. Chloride test d.  Lithologic Descriptions sand with gravel, very fine to fine								
Total Depth: 30' bgs e and vapor, respectively. Chloride test d.  Lithologic Descriptions sand with gravel, very fine to fine								
e and vapor, respectively. Chloride test d.  Lithologic Descriptions sand with gravel, very fine to fine								
sand with gravel, very fine to fine								
andy caliche, fine to medium coarse ed brown, dry, no odor								
sand with gravel, very fine to medium edium brown, no odor, dry								
sand with gravel, very fine to medium n, no odor, dry								
rs .								
TD at 30' bgs								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 1/16/2023 6:28:29 PM

# **JOB DESCRIPTION**

JALMAT YATES UNIT #188 SDG NUMBER Lea

# **JOB NUMBER**

890-3814-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

# **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**

Generated 1/16/2023 6:28:29 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Ensolum Project/Site: JALMAT YATES UNIT #188 Laboratory Job ID: 890-3814-1 SDG: Lea

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	18
QC Sample Results	20
QC Association Summary	25
Lab Chronicle	29
Certification Summary	34
Method Summary	35
Sample Summary	36
Chain of Custody	37
Receipt Chacklists	39

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### **Definitions/Glossary**

Job ID: 890-3814-1 Client: Ensolum Project/Site: JALMAT YATES UNIT #188

SDG: Lea

**Qualifiers** 

**GC VOA** 

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

**GC Semi VOA** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. 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 Contains No Free Liquid **CNF** 

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor** 

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) Limit of Quantitation (DoD/DOE) LOQ

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 MOI 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

**Practical Quantitation Limit PQL PRES** Presumptive

**Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER** 

Reporting Limit or Requested Limit (Radiochemistry) RL

**RPD** Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Ensolum

Project/Site: JALMAT YATES UNIT #188

Job ID: 890-3814-1

SDG: Lea

Job ID: 890-3814-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-3814-1

#### Receipt

The samples were received on 1/10/2023 9:05 AM. 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 2.6°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3814-1), PH01 (890-3814-2), PH01 (890-3814-3), PH02 (890-3814-4), PH02 (890-3814-5), PH02 (890-3814-6), PH03 (890-3814-7), PH03 (890-3814-8), PH03 (890-3814-1), PH04 (890-3814-11), PH04 (890-3814-12), PH05 (890-3814-13), PH05 (890-3814-14) and PH05 (890-3814-15).

#### **GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH03 (890-3814-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 samples were outside control limits: PH01 (890-3814-1), PH02 (890-3814-4), PH02 (890-3814-6), PH03 (890-3814-8), PH03 (890-3814-9), PH05 (890-3814-15) and (MB 880-43836/1-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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43786 and analytical batch 880-43927 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.

4

5

0

8

4.6

11

12

114

Eurofins Carlsbad 1/16/2023

Matrix: Solid

Lab Sample ID: 890-3814-1

### **Client Sample Results**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188 SDG: Lea

**Client Sample ID: PH01** 

Date Collected: 01/09/23 11:00 Date Received: 01/10/23 09:05

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/11/23 13:33	01/13/23 16:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/11/23 13:33	01/13/23 16:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/11/23 13:33	01/13/23 16:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/11/23 13:33	01/13/23 16:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/11/23 13:33	01/13/23 16:52	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/11/23 13:33	01/13/23 16:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			01/11/23 13:33	01/13/23 16:52	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/11/23 13:33	01/13/23 16:52	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/16/23 17:06	1
- Method: SW846 8015 NM - Diese	Al Range Organ	ics (DRO) ((	GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/16/23 16:35	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/40/00 45:00		Dil Fac
(GRO)-C6-C10				mg/Kg		01/12/23 15:08	01/13/23 11:01	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/12/23 15:08	01/13/23 11:01 01/13/23 11:01	1
Diesel Range Organics (Over C10-C28)	<49.9 <49.9							1
Diesel Range Organics (Over C10-C28)		U	49.9	mg/Kg		01/12/23 15:08	01/13/23 11:01	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <b>%Recovery</b>	U <b>Qualifier</b>	49.9 49.9	mg/Kg		01/12/23 15:08 01/12/23 15:08	01/13/23 11:01	1 1 1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <b>%Recovery</b> 137	U Qualifier S1+	49.9 49.9 <b>Limits</b>	mg/Kg		01/12/23 15:08 01/12/23 15:08 Prepared	01/13/23 11:01 01/13/23 11:01 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane o-Terphenyl	<49.9	Qualifier S1+ S1+	49.9 49.9  Limits 70 - 130 70 - 130	mg/Kg		01/12/23 15:08 01/12/23 15:08 Prepared 01/12/23 15:08	01/13/23 11:01 01/13/23 11:01 Analyzed 01/13/23 11:01	
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<49.9 **Recovery 137 134 s, lon Chromato	Qualifier S1+ S1+	49.9 49.9  Limits 70 - 130 70 - 130	mg/Kg	D	01/12/23 15:08 01/12/23 15:08 Prepared 01/12/23 15:08	01/13/23 11:01 01/13/23 11:01 Analyzed 01/13/23 11:01	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

**Client Sample ID: PH01** 

Date Collected: 01/09/23 11:05 Date Received: 01/10/23 09:05

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 17:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 17:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 17:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 17:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 17:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			01/11/23 13:33	01/13/23 17:13	1

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Lab Sample ID: 890-3814-2

Matrix: Solid

Released to Imaging: 9/12/2024 1:52:49 PM

Matrix: Solid

Lab Sample ID: 890-3814-2

### **Client Sample Results**

Client: Ensolum

Job ID: 890-3814-1 Project/Site: JALMAT YATES UNIT #188 SDG: Lea

**Client Sample ID: PH01** 

Date Collected: 01/09/23 11:05 Date Received: 01/10/23 09:05

Sample Depth: 3

Method: SW846 8021B -	<b>Volatile Organic</b>	Compounds (	GC)	(Continued)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	98	70 - 130	01/11/23 13:33	01/13/23 17:13	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 17:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/16/23 16:35	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	<49.8	U	49.8	mg/Kg		01/12/23 15:08	01/13/23 12:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/12/23 15:08	01/13/23 12:07	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/12/23 15:08	01/13/23 12:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122	70 - 130	01/12/23 15:08	01/13/23 12:07	1
o-Terphenyl	111	70 - 130	01/12/23 15:08	01/13/23 12:07	1

#### Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830		25.0	mg/Kg			01/14/23 02:11	5

**Client Sample ID: PH01** Lab Sample ID: 890-3814-3

Date Collected: 01/09/23 11:10 Date Received: 01/10/23 09:05

Sample Depth: 4

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Method. Syvoto 002 ID - Volat	ne Organic Comp		,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 17:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 17:33	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 17:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 17:33	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 17:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			01/11/23 13:33	01/13/23 17:33	1
1 4-Difluorobenzene (Surr)	103		70 130			01/11/23 13:33	01/13/23 17:33	1

Method: TAI	SOP Total RTF	X - Total RTF	K Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	mg/Kg			01/16/23 17:06	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 16:35	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Project/Site: JALMAT YATES UNIT #188

Client: Ensolum

Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH01** 

Date Collected: 01/09/23 11:10

Date Received: 01/10/23 09:05

Sample Depth: 4

Lab Sampl	le ID: 8	90-3814-3
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01/14/23 02:17

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/12/23 15:08	01/13/23 12:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/12/23 15:08	01/13/23 12:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/12/23 15:08	01/13/23 12:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			01/12/23 15:08	01/13/23 12:29	1
o-Terphenyl	123		70 - 130			01/12/23 15:08	01/13/23 12:29	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: PH02** Lab Sample ID: 890-3814-4

25.0

mg/Kg

2530

Date Collected: 01/09/23 12:30 Date Received: 01/10/23 09:05

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 17:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 17:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 17:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/11/23 13:33	01/13/23 17:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 17:54	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/11/23 13:33	01/13/23 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			01/11/23 13:33	01/13/23 17:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/11/23 13:33	01/13/23 17:54	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/16/23 17:06	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/16/23 16:35	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/12/23 15:08	01/13/23 12:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/12/23 15:08	01/13/23 12:51	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/12/23 15:08	01/13/23 12:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			01/12/23 15:08	01/13/23 12:51	1

Project/Site: JALMAT YATES UNIT #188

Client: Ensolum

Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH02** 

Date Collected: 01/09/23 12:30 Date Received: 01/10/23 09:05

Lab Sample ID: 890-3814-4

Matrix: Solid

Sample Depth: 1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1970	25.1	mg/Kg			01/14/23 02:22	5	

Client Sample ID: PH02 Lab Sample ID: 890-3814-5 **Matrix: Solid** 

Date Collected: 01/09/23 12:35

Date Received: 01/10/23 09:05

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

Sample Depth: 4

1-Chlorooctane

o-Terphenyl

Analyte

Chloride

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/11/23 13:33	01/13/23 18:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/11/23 13:33	01/13/23 18:15	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		01/11/23 13:33	01/13/23 18:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/11/23 13:33	01/13/23 18:15	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		01/11/23 13:33	01/13/23 18:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/11/23 13:33	01/13/23 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			01/11/23 13:33	01/13/23 18:15	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/11/23 13:33	01/13/23 18:15	1
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/16/23 17:06	1
Total BTEX  Method: SW846 8015 NM - Diesel				mg/Kg			01/16/23 17:06	1
Method: SW846 8015 NM - Diesel Analyte	Range Organ Result	ics (DRO) ((	GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
_ Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) ((	GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diesel Analyte	Range Organ Result <49.9	ics (DRO) (0 Qualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Analyte Total TPH	Range Organ Result <a href="#">&lt;49.9</a> el Range Organ	ics (DRO) (0 Qualifier	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Analyte Total TPH  Method: SW846 8015B NM - Diese	Range Organ Result <a href="#">&lt;49.9</a> el Range Organ	ics (DRO) (Oualifier Unics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg			Analyzed 01/16/23 16:35	Dil Fac
Method: SW846 8015 NM - Diesel Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result <49.9 el Range Orga Result	ics (DRO) (O Qualifier U	(GC) RL RL RL	Unit mg/Kg		Prepared	Analyzed 01/16/23 16:35 Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result 49.9 el Range Orga Result 49.9	ics (DRO) (Control of the control of	(GC)  RL  49.9  (GC)  RL  49.9	Unit mg/Kg  Unit mg/Kg		Prepared 01/12/23 15:08	Analyzed 01/16/23 16:35  Analyzed 01/13/23 13:13	Dil Fac  Dil Fac  1

70 - 130

70 - 130

RL

24.9

Unit

mg/Kg

110

109

3160

Result Qualifier

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

**Eurofins Carlsbad** 

01/12/23 15:08

01/12/23 15:08

Prepared

D

01/13/23 13:13

01/13/23 13:13

Analyzed

01/14/23 02:28

Dil Fac

Matrix: Solid

Lab Sample ID: 890-3814-6

### **Client Sample Results**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188 SDG: Lea

**Client Sample ID: PH02** 

Date Collected: 01/09/23 12:40 Date Received: 01/10/23 09:05

Sample Depth: 8

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 18:35	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 18:35	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 18:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 18:35	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 18:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			01/11/23 13:33	01/13/23 18:35	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/11/23 13:33	01/13/23 18:35	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/16/23 17:06	1
Method: SW846 8015 NM - Diese	•	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<50.0		<b>RL</b> 50.0	Mg/Kg	<u>D</u>	Prepared	<b>Analyzed</b> 01/16/23 16:35	
Total TPH	<50.0	U	50.0		<u>D</u>	Prepared		
Total TPH  Method: SW846 8015B NM - Die	<50.0	U	50.0		<u>D</u> 	Prepared Prepared		1
Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	<50.0	nics (DRO) Qualifier	50.0 (GC)	mg/Kg			01/16/23 16:35	Dil Fac
Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 sel Range Orga Result	Unics (DRO) Qualifier	50.0 (GC)	mg/Kg		Prepared	01/16/23 16:35  Analyzed	Dil Fac
Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0  sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 01/12/23 15:08	01/16/23 16:35  Analyzed  01/13/23 13:35	Dil Fac
Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0  sel Range Orga Result <50.0 <50.0	Dinics (DRO) Qualifier U U	50.0 (GC)  RL  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08	O1/16/23 16:35  Analyzed  O1/13/23 13:35  O1/13/23 13:35  O1/13/23 13:35	Dil Fac
Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0  sel Range Orga Result <50.0 <50.0 <50.0  %Recovery	Dinics (DRO) Qualifier U U	50.0  (GC)  RL  50.0  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08 01/12/23 15:08	01/16/23 16:35  Analyzed  01/13/23 13:35  01/13/23 13:35	Dil Face 1 1 1 Dil Face
Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<50.0  sel Range Orga Result <50.0 <50.0 <50.0  %Recovery	Oualifier  U  Qualifier  U  Qualifier	50.0  (GC)  RL  50.0  50.0  50.0  Limits	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08 01/12/23 15:08 Prepared	O1/16/23 16:35  Analyzed  O1/13/23 13:35  O1/13/23 13:35  O1/13/23 13:35  Analyzed	Dil Fac
Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 <50.0 *Recovery 137 127	Unics (DRO) Qualifier U U U Qualifier S1+	50.0  (GC)  RL  50.0  50.0  50.0  Limits  70 - 130  70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08 01/12/23 15:08 Prepared 01/12/23 15:08	01/16/23 16:35  Analyzed 01/13/23 13:35  01/13/23 13:35  Analyzed 01/13/23 13:35	Dil Fac
Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 <50.0 <70.0 %Recovery 137 127 s, Ion Chromato	Unics (DRO) Qualifier U U U Qualifier S1+	50.0  (GC)  RL  50.0  50.0  50.0  Limits  70 - 130  70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08 01/12/23 15:08 Prepared 01/12/23 15:08	01/16/23 16:35  Analyzed 01/13/23 13:35  01/13/23 13:35  Analyzed 01/13/23 13:35	Dil Fac

**Client Sample ID: PH03** 

Date Collected: 01/09/23 13:35 Date Received: 01/10/23 09:05

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 18:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 18:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 18:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 18:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 18:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/11/23 13:33	01/13/23 18:56	

**Eurofins Carlsbad** 

Lab Sample ID: 890-3814-7

Matrix: Solid

Client: Ensolum

Project/Site: JALMAT YATES UNIT #188

Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH03** 

Date Collected: 01/09/23 13:35 Date Received: 01/10/23 09:05 Lab Sample ID: 890-3814-7

Matrix: Solid

Sample Depth: 1

Method: SW846 8021B	- Volatile Organic	Compounds (	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	80	70 - 130	01/11/23 13:33	01/13/23 18:56	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 17:06	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	ma/Ka		<del>.</del>	01/16/23 16:35	1

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

moundar criticisc so real run. Broad	or runge orga		(00)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 13:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 13:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 13:57	1
Surrogate	%Recovery	Qualifier	l imits			Prepared	Analyzod	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118	70 - 130	01/12/23 15:08	01/13/23 13:57	1
o-Terphenyl	116	70 - 130	01/12/23 15:08	01/13/23 13:57	1

#### Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2110		25.0	mg/Kg			01/13/23 21:43	5

Client Sample ID: PH03 Lab Sample ID: 890-3814-8

Date Collected: 01/09/23 13:40 Date Received: 01/10/23 09:05

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 19:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 19:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 19:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/11/23 13:33	01/13/23 19:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 19:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/11/23 13:33	01/13/23 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			01/11/23 13:33	01/13/23 19:17	1
1,4-Difluorobenzene (Surr)	105		70 - 130			01/11/23 13:33	01/13/23 19:17	1

Method: TAI	SOP Total RTF	X - Total RTF	K Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			01/16/23 17:06	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 16:35	1

**Eurofins Carlsbad** 

2

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**Matrix: Solid** 

Matrix: Solid

Lab Sample ID: 890-3814-8

01/13/23 21:49

### **Client Sample Results**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188 SDG: Lea

**Client Sample ID: PH03** 

Date Collected: 01/09/23 13:40 Date Received: 01/10/23 09:05

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 14:19	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 14:19	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			01/12/23 15:08	01/13/23 14:19	1
o-Terphenyl	130		70 - 130			01/12/23 15:08	01/13/23 14:19	1
- - Mothod: MCAWW 2000 Aniona	Ion Chromoto	aranhy C	alubla					
Method: MCAWW 300.0 - Anions Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: PH03** Lab Sample ID: 890-3814-9 Date Collected: 01/09/23 13:45 Matrix: Solid

2530

24.9

mg/Kg

Date Received: 01/10/23 09:05

Sample Depth: 8

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 19:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 19:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 19:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/11/23 13:33	01/13/23 19:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 19:37	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/11/23 13:33	01/13/23 19:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130			01/11/23 13:33	01/13/23 19:37	1
1,4-Difluorobenzene (Surr)	71		70 - 130			01/11/23 13:33	01/13/23 19:37	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	11	0.00401				01/16/23 17:06	
IOIAI DT LX	10.00-01	U	0.00401	mg/Kg			01/10/23 17:00	1
•				mg/kg			01/16/23 17:06	'
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)					·
•	el Range Organ Result	ics (DRO) (		Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <a href="#">&lt;49.9</a>	ics (DRO) ( Qualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) ( Qualifier	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg			Analyzed 01/16/23 16:35	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result <a href="#">&lt;49.9</a> <a href="#">sel Range Orga</a> Result	Qualifier Unics (DRO) Qualifier	(GC)  RL  49.9  (GC)  RL  49.9	Unit mg/Kg		Prepared 01/12/23 15:08	Analyzed 01/16/23 16:35  Analyzed 01/13/23 14:42	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <a href="#">&lt;49.9</a> <a href="#">sel Range Orga</a> Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	(GC) RL RL RL	Unit mg/Kg		Prepared	Analyzed 01/16/23 16:35 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.9  sel Range Orga Result <49.9 <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	(GC)  RL  49.9  (GC)  RL  49.9  49.9	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08	Analyzed 01/16/23 16:35  Analyzed 01/13/23 14:42 01/13/23 14:42	Dil Fac  Dil Fac  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <a href="#">Result</a> <a href="#">Result</a> <a href="#">Result</a> <a href="#">&lt;49.9</a>	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	(GC)  RL  49.9  (GC)  RL  49.9	Unit mg/Kg  Unit mg/Kg		Prepared 01/12/23 15:08	Analyzed 01/16/23 16:35  Analyzed 01/13/23 14:42	Dil Fac  Dil Fac  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	(GC)  RL  49.9  (GC)  RL  49.9  49.9	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08 01/12/23 15:08 Prepared	Analyzed 01/16/23 16:35  Analyzed 01/13/23 14:42 01/13/23 14:42 01/13/23 14:42 Analyzed	Dil Fac  Dil Fac  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <49.9  sel Range Orga Result <49.9  <49.9  <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC) RL 49.9  (GC) RL 49.9  49.9  49.9	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08 01/12/23 15:08	Analyzed 01/16/23 16:35  Analyzed 01/13/23 14:42 01/13/23 14:42 01/13/23 14:42	Dil Fac  Dil Fac  1  1  1

Project/Site: JALMAT YATES UNIT #188

Client: Ensolum

Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH03** 

Date Collected: 01/09/23 13:45

Date Received: 01/10/23 09:05

Sample Depth: 8

Lab Sample ID: 890-3814-9

Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	2840	25.0	mg/Kg			01/13/23 22:08	5			

Client Sample ID: PH04

Date Collected: 01/09/23 13:50

Lab Sample ID: 890-3814-10

Matrix: Solid

Date Collected: 01/09/23 13:50 Date Received: 01/10/23 09:05

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 19:58	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 19:58	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 19:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 19:58	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 19:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			01/11/23 13:33	01/13/23 19:58	1
1,4-Difluorobenzene (Surr)	77		70 - 130			01/11/23 13:33	01/13/23 19:58	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 17:06	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (G0	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/16/23 16:35	1

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 15:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 15:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 15:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			01/12/23 15:08	01/13/23 15:04	1
o-Terphenyl	104		70 - 130			01/12/23 15:08	01/13/23 15:04	1

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		4.95	mg/Kg			01/13/23 22:14	1

### **Client Sample Results**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188 SDG: Lea

**Client Sample ID: PH04** Lab Sample ID: 890-3814-11

Date Collected: 01/09/23 13:55 Matrix: Solid Date Received: 01/10/23 09:05

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 21:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 21:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 21:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 21:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 21:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/11/23 13:33	01/13/23 21:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/11/23 13:33	01/13/23 21:22	1
- Method: TAL SOP Total BTEX - 1	Γotal BTEX Calc	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/16/23 17:06	1
Analyte Total TPH		Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/16/23 16:35	1
-								
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	• •	<mark>Unit</mark> mg/Kg	D	Prepared 01/12/23 15:08	Analyzed 01/13/23 15:48	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>	<u>·</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	01/12/23 15:08	01/13/23 15:48	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result  <49.9	Qualifier U U U	49.9 49.9	mg/Kg	<u>D</u>	01/12/23 15:08 01/12/23 15:08	01/13/23 15:48 01/13/23 15:48	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result <49.9 <49.9	Qualifier U U U	RL 49.9 49.9 49.9	mg/Kg	<u>D</u>	01/12/23 15:08 01/12/23 15:08 01/12/23 15:08	01/13/23 15:48 01/13/23 15:48 01/13/23 15:48	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.9   <49.9   <49.9   <49.9   %Recovery	Qualifier U U U	RL 49.9 49.9 49.9 <i>Limits</i>	mg/Kg	<u>D</u>	01/12/23 15:08 01/12/23 15:08 01/12/23 15:08 Prepared	01/13/23 15:48 01/13/23 15:48 01/13/23 15:48 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.9   <49.9   <49.9     <49.9     <49.9       <129     116     <116     <116     <116     <116     <116     <116     <116     <116     <116     <116     <116     <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <116   <1	Qualifier  U  U  Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u> </u>	01/12/23 15:08 01/12/23 15:08 01/12/23 15:08 Prepared 01/12/23 15:08	01/13/23 15:48 01/13/23 15:48 01/13/23 15:48 Analyzed 01/13/23 15:48	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier  U  U  Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	01/12/23 15:08 01/12/23 15:08 01/12/23 15:08 Prepared 01/12/23 15:08	01/13/23 15:48 01/13/23 15:48 01/13/23 15:48 Analyzed 01/13/23 15:48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

**Client Sample ID: PH04** Lab Sample ID: 890-3814-12

Date Collected: 01/09/23 14:00 Date Received: 01/10/23 09:05

Sample Depth: 8

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 21:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 21:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 21:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/11/23 13:33	01/13/23 21:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 21:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/11/23 13:33	01/13/23 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/11/23 13:33	01/13/23 21:43	

**Eurofins Carlsbad** 

Matrix: Solid

Client: Ensolum

Project/Site: JALMAT YATES UNIT #188

Job ID: 890-3814-1

Lab Sample ID: 890-3814-12

01/13/23 21:43

01/11/23 13:33

SDG: Lea

Matrix: Solid

Client Sample ID: PH04

Date Collected: 01/09/23 14:00

Date Received: 01/10/23 09:05

Sample Depth: 8

1,4-Difluorobenzene (Surr)

Method: SW846 8021B - Volat	tile Organic Compounds (GC) (Continued)			
Surrogate	%Recovery Qualifier Limits	Prepared	Analyzed	Dil Fac

70 - 130

Method: TAL SOP Total BTEX - Total BTEX Calculation	

110

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00399 0.00399 01/16/23 17:06 mg/Kg

н			
н	Method: SW846 8015 NM - D	iccal Banga Or	manica (DDO) (CC)
н	INIELITOU. 377040 OU 13 INIVI - D	iesei Kange Or	ganics (DRO) (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <49.8 49.8 mg/Kg 01/16/23 16:35

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

Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <49.8 U 01/12/23 15:08 01/13/23 16:10 49.8 mg/Kg (GRO)-C6-C10 <49.8 U 49.8 mg/Kg 01/12/23 15:08 01/13/23 16:10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 01/12/23 15:08 01/13/23 16:10 Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	I
1-Chlorooctane	112		70 - 130	01/12/23 15:08	01/13/23 16:10	
o-Terphenyl	110		70 - 130	01/12/23 15:08	01/13/23 16:10	

#### Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 99.4 01/13/23 22:26 Chloride 11400 mg/Kg 20

Client Sample ID: PH05 Lab Sample ID: 890-3814-13 Matrix: Solid

Date Collected: 01/09/23 14:30 Date Received: 01/10/23 09:05

Sample Depth: 1

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 U 0.00201 mg/Kg 01/11/23 13:33 01/13/23 22:04 Toluene <0.00201 U 0.00201 01/11/23 13:33 01/13/23 22:04 mg/Kg Ethylbenzene <0.00201 U 0.00201 mg/Kg 01/11/23 13:33 01/13/23 22:04 0.00402 01/11/23 13:33 01/13/23 22:04 m-Xylene & p-Xylene <0.00402 U mg/Kg o-Xylene <0.00201 U 0.00201 mg/Kg 01/11/23 13:33 01/13/23 22:04 Xylenes, Total <0.00402 U 0.00402 mg/Kg 01/11/23 13:33 01/13/23 22:04

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/11/23 13:33	01/13/23 22:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/11/23 13:33	01/13/23 22:04	1

#### Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier Dil Fac RL Unit D Prepared Analyzed Total BTEX <0.00402 0.00402 01/16/23 17:06 mg/Kg

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.0 U Total TPH 50.0 mg/Kg 01/16/23 16:35

### **Client Sample Results**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188 SDG: Lea

Lab Sample ID: 890-3814-13 **Client Sample ID: PH05** 

Date Collected: 01/09/23 14:30 Matrix: Solid Date Received: 01/10/23 09:05

Sample Depth: 1

Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		01/12/23 15:08	01/13/23 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 16:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			01/12/23 15:08	01/13/23 16:32	1
o-Terphenyl	117		70 - 130			01/12/23 15:08	01/13/23 16:32	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		25.0	mg/Kg			01/13/23 22:32	5

**Client Sample ID: PH05** Lab Sample ID: 890-3814-14 Matrix: Solid

Date Collected: 01/09/23 14:35 Date Received: 01/10/23 09:05

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 22:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 22:25	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 22:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 22:25	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 22:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			01/11/23 13:33	01/13/23 22:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130			01/11/23 13:33	01/13/23 22:25	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/16/23 17:06	1
				J. J				
• -	I D	(DDO) (	20)	3 3				
: Method: SW846 8015 NM - Diese	•	, , ,	•		_			D.1. E
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	•	Qualifier	•		<u>D</u>	Prepared	Analyzed 01/16/23 16:35	Dil Fac
Method: SW846 8015 NM - Diese Analyte		Qualifier U		Unit	<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <50.0	Qualifier U		Unit	<u>D</u>	Prepared Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U nics (DRO) Qualifier	RL 50.0	<mark>Unit</mark> mg/Kg			01/16/23 16:35	1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <50.0  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL	Unit mg/Kg		Prepared	01/16/23 16:35  Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	Unit mg/Kg  Unit mg/Kg		Prepared 01/12/23 15:08	01/16/23 16:35  Analyzed  01/13/23 16:55	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	Unit mg/Kg  Unit mg/Kg		Prepared 01/12/23 15:08	01/16/23 16:35  Analyzed  01/13/23 16:55	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 sel Range Orga Result <50.0 <50.0	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08	01/16/23 16:35  Analyzed  01/13/23 16:55  01/13/23 16:55	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/12/23 15:08 01/12/23 15:08 01/12/23 15:08	O1/16/23 16:35  Analyzed  O1/13/23 16:55  O1/13/23 16:55  O1/13/23 16:55	1 Dil Fac 1 1

### **Client Sample Results**

Client: Ensolum Project/Site: JALMAT YATES UNIT #188 Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH05** 

Date Collected: 01/09/23 14:35 Date Received: 01/10/23 09:05 Lab Sample ID: 890-3814-14

Matrix: Solid

Sample Depth: 4

	Method: MCAWW 300.0 - Anions, Io	on Chromato	graphy - So	oluble					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	2610		24.8	mg/Kg			01/13/23 22:38	5

**Client Sample ID: PH05** Lab Sample ID: 890-3814-15 Matrix: Solid

Date Collected: 01/09/23 14:40

Date Received: 01/10/23 09:05

Sample Depth: 8

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 22:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 22:45	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 22:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 22:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/11/23 13:33	01/13/23 22:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/11/23 13:33	01/13/23 22:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			01/11/23 13:33	01/13/23 22:45	1
1,4-Difluorobenzene (Surr)	109		70 - 130			01/11/23 13:33	01/13/23 22:45	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Michiga. IAL GOI Total BILA		O1161	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	114					

Total TPH	<49.9	U	49.9	mg/Kg			01/16/23 16:35	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		01/12/23 15:08	01/13/23 17:17	1
(GRO)-C6-C10	<49.9		49.9	m = /// =		01/12/23 15:08	01/13/23 17:17	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/12/23 15.06	01/13/23 17:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/12/23 15:08	01/13/23 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130			01/12/23 15:08	01/13/23 17:17	
o-Terphenyl	135	S1+	70 - 130			01/12/23 15:08	01/13/23 17:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2180		24.8	mg/Kg			01/13/23 22:44	5

### **Surrogate Summary**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188 SDG: Lea

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3814-1	PH01	117	99	
890-3814-1 MS	PH01	101	102	
890-3814-1 MSD	PH01	103	100	
890-3814-2	PH01	129	98	
890-3814-3	PH01	127	103	
890-3814-4	PH02	126	101	
890-3814-5	PH02	131 S1+	100	
890-3814-6	PH02	121	101	
890-3814-7	PH03	121	80	
890-3814-8	PH03	127	105	
890-3814-9	PH03	55 S1-	71	
890-3814-10	PH04	123	77	
890-3814-11	PH04	112	106	
890-3814-12	PH04	121	110	
890-3814-13	PH05	127	107	
890-3814-14	PH05	130	97	
890-3814-15	PH05	125	109	
LCS 880-43747/1-A	Lab Control Sample	94	98	
LCSD 880-43747/2-A	Lab Control Sample Dup	99	98	
MB 880-43747/5-A	Method Blank	99	86	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3814-1	PH01	137 S1+	134 S1+
890-3814-1 MS	PH01	116	102
890-3814-1 MSD	PH01	103	96
890-3814-2	PH01	122	111
890-3814-3	PH01	127	123
890-3814-4	PH02	141 S1+	131 S1+
890-3814-5	PH02	110	109
890-3814-6	PH02	137 S1+	127
890-3814-7	PH03	118	116
890-3814-8	PH03	140 S1+	130
890-3814-9	PH03	140 S1+	130
890-3814-10	PH04	113	104
890-3814-11	PH04	129	116
890-3814-12	PH04	112	110
890-3814-13	PH05	126	117
890-3814-14	PH05	111	109
890-3814-15	PH05	148 S1+	135 S1+
LCS 880-43836/2-A	Lab Control Sample	110	103
LCSD 880-43836/3-A	Lab Control Sample Dup	126	115

### **Surrogate Summary**

Client: Ensolum
Project/Site: JALMAT YATES UNIT #188
Job ID: 890-3814-1
SDG: Lea

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
MB 880-43836/1-A	Method Blank	176 S1+	160 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

### **QC Sample Results**

Client: Ensolum Job ID: 890-3814-1 Project/Site: JALMAT YATES UNIT #188

SDG: Lea

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43747/5-A

Lab Sample ID: LCS 880-43747/1-A

**Matrix: Solid** 

**Matrix: Solid** Analysis Batch: 43877 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43747

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 16:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 16:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 16:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/11/23 13:33	01/13/23 16:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/23 13:33	01/13/23 16:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/11/23 13:33	01/13/23 16:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01	1/11/23 13:33	01/13/23 16:30	1
1,4-Difluorobenzene (Surr)	86		70 - 130	01	1/11/23 13:33	01/13/23 16:30	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 43747

Analysis Batch: 43877 LCS LCS Spike Added Result Qualifier Unit %Rec Limits

Analyte Benzene 0.100 0.1093 mg/Kg 109 70 - 130 Toluene 0.100 0.1016 mg/Kg 102 70 - 130 0.100 Ethylbenzene 0.1124 mg/Kg 112 70 - 130 0.200 0.2022 101 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1032 103 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: LCSD 880-43747/2-A **Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

Analysis Batch: 43877

Prep Type: Total/NA Prep Batch: 43747

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	3	35
Toluene	0.100	0.09865		mg/Kg		99	70 - 130	3	35
Ethylbenzene	0.100	0.1114		mg/Kg		111	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2049		mg/Kg		102	70 - 130	1	35
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 890-3814-1 MS

**Matrix: Solid** 

Analysis Batch: 43877

**Client Sample ID: PH01** Prep Type: Total/NA

Prep Batch: 43747

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0998	0.09921		mg/Kg		99	70 - 130	
Toluene	<0.00202	U	0.0998	0.09304		mg/Kg		93	70 - 130	

### **QC Sample Results**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188 SDG: Lea

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

**Matrix: Solid** Analysis Batch: 43877

Lab Sample ID: 890-3814-1 MS

**Client Sample ID: PH01** Prep Type: Total/NA

Prep Batch: 43747

Sample	Sample	Spike	MS	MS				%Rec
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
<0.00202	U	0.0998	0.1028		mg/Kg		103	70 - 130
<0.00404	U	0.200	0.1889		mg/Kg		95	70 - 130
<0.00202	U	0.0998	0.09590		mg/Kg		96	70 - 130
	Result  <0.00202 <0.00404	Result   Qualifier	Result   Qualifier   Added	Result         Qualifier         Added         Result           <0.00202	Result         Qualifier         Added         Result         Qualifier           <0.00202	Result         Qualifier         Added         Result         Qualifier         Unit           <0.00202	Result volume         Qualifier         Added Added         Result volume         Qualifier volume         Unit volume         D           <0.00202	Result Qualifier         Added Added         Result Qualifier         Unit Unit Unit Unit Unit Unit Unit Unit

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-3814-1 MSD

**Matrix: Solid** 

**Analysis Batch: 43877** 

**Client Sample ID: PH01** Prep Type: Total/NA

Prep Batch: 43747

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.09991		mg/Kg		99	70 - 130	1	35
Toluene	<0.00202	U	0.100	0.09481		mg/Kg		95	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.100	0.1062		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1967		mg/Kg		98	70 - 130	4	35
o-Xylene	<0.00202	U	0.100	0.09996		mg/Kg		100	70 - 130	4	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-43836/1-A

**Matrix: Solid** 

Analysis Batch: 43854

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

Prep Batch: 43836

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 08:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 08:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:08	01/13/23 08:27	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130	01/12/23 15:08	01/13/23 08:27	1
o-Terphenyl	160	S1+	70 - 130	01/12/23 15:08	01/13/23 08:27	1

Lab Sample ID: LCS 880-43836/2-A

**Matrix: Solid** 

Analysis Batch: 43854

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

Prep Batch: 43836

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	967.7		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	919.0		mg/Kg		92	70 - 130	
C10-C28)								

Client: Ensolum

Job ID: 890-3814-1

SDG: Lea

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

LCS LCS

Lab Sample ID: LCS 880-43836/2-A

Project/Site: JALMAT YATES UNIT #188

**Matrix: Solid** 

Analysis Batch: 43854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43836

Surrogate %Recovery Qualifier

Limits 1-Chlorooctane 110 70 - 130 o-Terphenyl 103 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43836

Lab Sample ID: LCSD 880-43836/3-A **Matrix: Solid** 

Analysis Batch: 43854

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1093 109 70 - 13012 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1022 102 mg/Kg 70 - 13011 20

C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 126 70 - 130 1-Chlorooctane 115 70 - 130 o-Terphenyl

Lab Sample ID: 890-3814-1 MS **Client Sample ID: PH01** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 43854 Prep Batch: 43836 Sample Sample MS MS

Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.9 U 998 1041 mg/Kg 102 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 1012 mg/Kg 101 70 - 130

C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 116 70 - 130 o-Terphenyl 102

Lab Sample ID: 890-3814-1 MSD **Client Sample ID: PH01** 

**Matrix: Solid** Prep Type: Total/NA Prep Batch: 43836

Analysis Batch: 43854

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Sample Sample MSD MSD %Rec RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 997 1007 99 Gasoline Range Organics <49.9 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 940.5 mg/Kg 94 70 - 130 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 103 70 - 130 96 70 - 130 o-Terphenyl

Job ID: 890-3814-1 Client: Ensolum Project/Site: JALMAT YATES UNIT #188

SDG: Lea

**Prep Type: Soluble** 

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43792/1-A

**Matrix: Solid** 

Analysis Batch: 43924

мв мв

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/13/23 23:50

Lab Sample ID: LCS 880-43792/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 43924** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 255.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-43792/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 43924

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 251.6 mg/Kg 101 90 - 110

Lab Sample ID: 890-3810-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 43924** 

MS MS Spike %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 428 250 673.4 90 - 110 mg/Kg

Lab Sample ID: 890-3810-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 43924

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 428 250 670.2 mg/Kg 97 90 - 110

Lab Sample ID: MB 880-43786/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 43927** 

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 01/13/23 19:39

Lab Sample ID: LCS 880-43786/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 43927** 

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 269.2 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-43786/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 43927** 

Released to Imaging: 9/12/2024 1:52:49 PM

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 274.1 mg/Kg 110 90 - 110 20

**Eurofins Carlsbad** 

**Prep Type: Soluble** 

Lab Sample ID: 890-3786-A-3-C MS

Lab Sample ID: 890-3786-A-3-D MSD

### **QC Sample Results**

Client: Ensolum Job ID: 890-3814-1 Project/Site: JALMAT YATES UNIT #188

SDG: Lea

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: Matrix Spike **Prep Type: Soluble** 

**Matrix: Solid** Analysis Batch: 43927

Sample Sample Spike MS MS %Rec Added Result Qualifier Result Qualifier Analyte Unit %Rec Limits Chloride 63.8 F1 252 356.8 F1 mg/Kg 116 90 - 110

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

Analysis Batch: 43927

**Matrix: Solid** 

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	63.8	F1	252	370.6	F1	mg/Kg		122	90 - 110	4	20

Client: Ensolum Job ID: 890-3814-1 Project/Site: JALMAT YATES UNIT #188

SDG: Lea

### **GC VOA**

Prep Batch: 43747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-1	PH01	Total/NA	Solid	5035	
890-3814-2	PH01	Total/NA	Solid	5035	
890-3814-3	PH01	Total/NA	Solid	5035	
890-3814-4	PH02	Total/NA	Solid	5035	
890-3814-5	PH02	Total/NA	Solid	5035	
890-3814-6	PH02	Total/NA	Solid	5035	
890-3814-7	PH03	Total/NA	Solid	5035	
890-3814-8	PH03	Total/NA	Solid	5035	
890-3814-9	PH03	Total/NA	Solid	5035	
890-3814-10	PH04	Total/NA	Solid	5035	
890-3814-11	PH04	Total/NA	Solid	5035	
890-3814-12	PH04	Total/NA	Solid	5035	
890-3814-13	PH05	Total/NA	Solid	5035	
890-3814-14	PH05	Total/NA	Solid	5035	
890-3814-15	PH05	Total/NA	Solid	5035	
MB 880-43747/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43747/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43747/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3814-1 MS	PH01	Total/NA	Solid	5035	
890-3814-1 MSD	PH01	Total/NA	Solid	5035	

### Analysis Batch: 43877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-1	PH01	Total/NA	Solid	8021B	43747
890-3814-2	PH01	Total/NA	Solid	8021B	43747
890-3814-3	PH01	Total/NA	Solid	8021B	43747
890-3814-4	PH02	Total/NA	Solid	8021B	43747
890-3814-5	PH02	Total/NA	Solid	8021B	43747
890-3814-6	PH02	Total/NA	Solid	8021B	43747
890-3814-7	PH03	Total/NA	Solid	8021B	43747
890-3814-8	PH03	Total/NA	Solid	8021B	43747
890-3814-9	PH03	Total/NA	Solid	8021B	43747
890-3814-10	PH04	Total/NA	Solid	8021B	43747
890-3814-11	PH04	Total/NA	Solid	8021B	43747
890-3814-12	PH04	Total/NA	Solid	8021B	43747
890-3814-13	PH05	Total/NA	Solid	8021B	43747
890-3814-14	PH05	Total/NA	Solid	8021B	43747
890-3814-15	PH05	Total/NA	Solid	8021B	43747
MB 880-43747/5-A	Method Blank	Total/NA	Solid	8021B	43747
LCS 880-43747/1-A	Lab Control Sample	Total/NA	Solid	8021B	43747
LCSD 880-43747/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43747
890-3814-1 MS	PH01	Total/NA	Solid	8021B	43747
890-3814-1 MSD	PH01	Total/NA	Solid	8021B	43747

### Analysis Batch: 44107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-1	PH01	Total/NA	Solid	Total BTEX	
890-3814-2	PH01	Total/NA	Solid	Total BTEX	
890-3814-3	PH01	Total/NA	Solid	Total BTEX	
890-3814-4	PH02	Total/NA	Solid	Total BTEX	
890-3814-5	PH02	Total/NA	Solid	Total BTEX	

Client: Ensolum Job ID: 890-3814-1 Project/Site: JALMAT YATES UNIT #188

SDG: Lea

### **GC VOA (Continued)**

### **Analysis Batch: 44107 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-6	PH02	Total/NA	Solid	Total BTEX	
890-3814-7	PH03	Total/NA	Solid	Total BTEX	
890-3814-8	PH03	Total/NA	Solid	Total BTEX	
890-3814-9	PH03	Total/NA	Solid	Total BTEX	
890-3814-10	PH04	Total/NA	Solid	Total BTEX	
890-3814-11	PH04	Total/NA	Solid	Total BTEX	
890-3814-12	PH04	Total/NA	Solid	Total BTEX	
890-3814-13	PH05	Total/NA	Solid	Total BTEX	
890-3814-14	PH05	Total/NA	Solid	Total BTEX	
890-3814-15	PH05	Total/NA	Solid	Total BTEX	

### GC Semi VOA

### Prep Batch: 43836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-1	PH01	Total/NA	Solid	8015NM Prep	
890-3814-2	PH01	Total/NA	Solid	8015NM Prep	
890-3814-3	PH01	Total/NA	Solid	8015NM Prep	
890-3814-4	PH02	Total/NA	Solid	8015NM Prep	
890-3814-5	PH02	Total/NA	Solid	8015NM Prep	
890-3814-6	PH02	Total/NA	Solid	8015NM Prep	
890-3814-7	PH03	Total/NA	Solid	8015NM Prep	
890-3814-8	PH03	Total/NA	Solid	8015NM Prep	
890-3814-9	PH03	Total/NA	Solid	8015NM Prep	
890-3814-10	PH04	Total/NA	Solid	8015NM Prep	
890-3814-11	PH04	Total/NA	Solid	8015NM Prep	
890-3814-12	PH04	Total/NA	Solid	8015NM Prep	
890-3814-13	PH05	Total/NA	Solid	8015NM Prep	
890-3814-14	PH05	Total/NA	Solid	8015NM Prep	
890-3814-15	PH05	Total/NA	Solid	8015NM Prep	
MB 880-43836/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43836/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43836/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3814-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-3814-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 43854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-1	PH01	Total/NA	Solid	8015B NM	43836
890-3814-2	PH01	Total/NA	Solid	8015B NM	43836
890-3814-3	PH01	Total/NA	Solid	8015B NM	43836
890-3814-4	PH02	Total/NA	Solid	8015B NM	43836
890-3814-5	PH02	Total/NA	Solid	8015B NM	43836
890-3814-6	PH02	Total/NA	Solid	8015B NM	43836
890-3814-7	PH03	Total/NA	Solid	8015B NM	43836
890-3814-8	PH03	Total/NA	Solid	8015B NM	43836
890-3814-9	PH03	Total/NA	Solid	8015B NM	43836
890-3814-10	PH04	Total/NA	Solid	8015B NM	43836
890-3814-11	PH04	Total/NA	Solid	8015B NM	43836
890-3814-12	PH04	Total/NA	Solid	8015B NM	43836
890-3814-13	PH05	Total/NA	Solid	8015B NM	43836

Client: Ensolum Job ID: 890-3814-1 Project/Site: JALMAT YATES UNIT #188

SDG: Lea

### GC Semi VOA (Continued)

### Analysis Batch: 43854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-14	PH05	Total/NA	Solid	8015B NM	43836
890-3814-15	PH05	Total/NA	Solid	8015B NM	43836
MB 880-43836/1-A	Method Blank	Total/NA	Solid	8015B NM	43836
LCS 880-43836/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43836
LCSD 880-43836/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43836
890-3814-1 MS	PH01	Total/NA	Solid	8015B NM	43836
890-3814-1 MSD	PH01	Total/NA	Solid	8015B NM	43836

#### Analysis Batch: 44027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3814-1	PH01	Total/NA	Solid	8015 NM	_
890-3814-2	PH01	Total/NA	Solid	8015 NM	
890-3814-3	PH01	Total/NA	Solid	8015 NM	
890-3814-4	PH02	Total/NA	Solid	8015 NM	
890-3814-5	PH02	Total/NA	Solid	8015 NM	
890-3814-6	PH02	Total/NA	Solid	8015 NM	
890-3814-7	PH03	Total/NA	Solid	8015 NM	
890-3814-8	PH03	Total/NA	Solid	8015 NM	
890-3814-9	PH03	Total/NA	Solid	8015 NM	
890-3814-10	PH04	Total/NA	Solid	8015 NM	
890-3814-11	PH04	Total/NA	Solid	8015 NM	
890-3814-12	PH04	Total/NA	Solid	8015 NM	
890-3814-13	PH05	Total/NA	Solid	8015 NM	
890-3814-14	PH05	Total/NA	Solid	8015 NM	
890-3814-15	PH05	Total/NA	Solid	8015 NM	

### HPLC/IC

#### Leach Batch: 43786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-7	PH03	Soluble	Solid	DI Leach	
890-3814-8	PH03	Soluble	Solid	DI Leach	
890-3814-9	PH03	Soluble	Solid	DI Leach	
890-3814-10	PH04	Soluble	Solid	DI Leach	
890-3814-11	PH04	Soluble	Solid	DI Leach	
890-3814-12	PH04	Soluble	Solid	DI Leach	
890-3814-13	PH05	Soluble	Solid	DI Leach	
890-3814-14	PH05	Soluble	Solid	DI Leach	
890-3814-15	PH05	Soluble	Solid	DI Leach	
MB 880-43786/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43786/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43786/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3786-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3786-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Leach Batch: 43792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-1	PH01	Soluble	Solid	DI Leach	
890-3814-2	PH01	Soluble	Solid	DI Leach	
890-3814-3	PH01	Soluble	Solid	DI Leach	
890-3814-4	PH02	Soluble	Solid	DI Leach	

Client: Ensolum Job ID: 890-3814-1 Project/Site: JALMAT YATES UNIT #188

SDG: Lea

### **HPLC/IC** (Continued)

### Leach Batch: 43792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-5	PH02	Soluble	Solid	DI Leach	
890-3814-6	PH02	Soluble	Solid	DI Leach	
MB 880-43792/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43792/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43792/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3810-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3810-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### Analysis Batch: 43924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-1	PH01	Soluble	Solid	300.0	43792
890-3814-2	PH01	Soluble	Solid	300.0	43792
890-3814-3	PH01	Soluble	Solid	300.0	43792
890-3814-4	PH02	Soluble	Solid	300.0	43792
890-3814-5	PH02	Soluble	Solid	300.0	43792
890-3814-6	PH02	Soluble	Solid	300.0	43792
MB 880-43792/1-A	Method Blank	Soluble	Solid	300.0	43792
LCS 880-43792/2-A	Lab Control Sample	Soluble	Solid	300.0	43792
LCSD 880-43792/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43792
890-3810-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	43792
890-3810-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43792

#### Analysis Batch: 43927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3814-7	PH03	Soluble	Solid	300.0	43786
890-3814-8	PH03	Soluble	Solid	300.0	43786
890-3814-9	PH03	Soluble	Solid	300.0	43786
890-3814-10	PH04	Soluble	Solid	300.0	43786
890-3814-11	PH04	Soluble	Solid	300.0	43786
890-3814-12	PH04	Soluble	Solid	300.0	43786
890-3814-13	PH05	Soluble	Solid	300.0	43786
890-3814-14	PH05	Soluble	Solid	300.0	43786
890-3814-15	PH05	Soluble	Solid	300.0	43786
MB 880-43786/1-A	Method Blank	Soluble	Solid	300.0	43786
LCS 880-43786/2-A	Lab Control Sample	Soluble	Solid	300.0	43786
LCSD 880-43786/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43786
890-3786-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	43786
890-3786-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43786

Client: Ensolum

Project/Site: JALMAT YATES UNIT #188

Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH01** 

Date Collected: 01/09/23 11:00 Date Received: 01/10/23 09:05 Lab Sample ID: 890-3814-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 11:01	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	43792	01/12/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			43924	01/14/23 02:06	CH	EET MID

**Client Sample ID: PH01** Lab Sample ID: 890-3814-2

Date Collected: 01/09/23 11:05

Date Received: 01/10/23 09:05

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 12:07	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43792	01/12/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			43924	01/14/23 02:11	CH	EET MID

**Client Sample ID: PH01** Lab Sample ID: 890-3814-3

Date Collected: 01/09/23 11:10

Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 12:29	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43792	01/12/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			43924	01/14/23 02:17	CH	EET MID

**Client Sample ID: PH02** Lab Sample ID: 890-3814-4 Date Collected: 01/09/23 12:30

Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID

**Eurofins Carlsbad** 

**Matrix: Solid** 

**Matrix: Solid** 

Client: Ensolum

Project/Site: JALMAT YATES UNIT #188

Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH02** 

Date Collected: 01/09/23 12:30 Date Received: 01/10/23 09:05 Lab Sample ID: 890-3814-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 12:51	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43792	01/12/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			43924	01/14/23 02:22	CH	EET MID

Lab Sample ID: 890-3814-5

**Client Sample ID: PH02** Date Collected: 01/09/23 12:35

Date Received: 01/10/23 09:05

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 13:13	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43792	01/12/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			43924	01/14/23 02:28	CH	EET MID

**Client Sample ID: PH02** Lab Sample ID: 890-3814-6

Date Collected: 01/09/23 12:40 Date Received: 01/10/23 09:05 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 13:35	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43792	01/12/23 09:21	KS	EET MID
Soluble	Analysis	300.0		20			43924	01/14/23 02:33	CH	EET MID

Lab Sample ID: 890-3814-7 **Client Sample ID: PH03** 

Date Collected: 01/09/23 13:35 Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 13:57	AJ	EET MID

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**Eurofins Carlsbad** 

**Matrix: Solid** 

Analysis

Total/NA

### **Lab Chronicle**

Client: Ensolum
Project/Site: JALMAT YATES UNIT #188

Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH03** 

Date Collected: 01/09/23 13:35 Date Received: 01/10/23 09:05 Lab Sample ID: 890-3814-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		5			43927	01/13/23 21:43	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-3814-8

Date Collected: 01/09/23 13:40 Matrix: Solid

Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 14:19	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		5			43927	01/13/23 21:49	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-3814-9

Date Collected: 01/09/23 13:45 Matrix: Solid
Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 14:42	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		5			43927	01/13/23 22:08	CH	EET MID

Client Sample ID: PH04

Date Collected: 01/09/23 13:50

Lab Sample ID: 890-3814-10

Matrix: Solid

Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 15:04	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		1			43927	01/13/23 22:14	CH	EET MID

**Eurofins Carlsbad** 

Released to Imaging: 9/12/2024 1:52:49 PM

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Client: Ensolum

Project/Site: JALMAT YATES UNIT #188

Job ID: 890-3814-1

SDG: Lea

**Client Sample ID: PH04** 

Date Collected: 01/09/23 13:55 Date Received: 01/10/23 09:05 Lab Sample ID: 890-3814-11

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 21:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 15:48	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		20			43927	01/13/23 22:20	CH	EET MID

Lab Sample ID: 890-3814-12

**Client Sample ID: PH04** Date Collected: 01/09/23 14:00

Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 21:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 16:10	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		20			43927	01/13/23 22:26	CH	EET MID

Client Sample ID: PH05

Date Collected: 01/ Date Received: 01/10/23

ID: PH05	Lab Sample ID: 890-3814-13
1/09/23 14:30	Matrix: Solid
/10/23 09:05	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 22:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 16:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		5			43927	01/13/23 22:32	CH	EET MID

**Client Sample ID: PH05** Lab Sample ID: 890-3814-14 Date Collected: 01/09/23 14:35 **Matrix: Solid** 

Date Received: 01/10/23 09:05

Γ	Datab	Datah		Dil	luitial	Final	Datah	Duamanad		
	Batch -	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 22:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID

### **Lab Chronicle**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188 SDG: Lea

**Client Sample ID: PH05** Lab Sample ID: 890-3814-14

Date Collected: 01/09/23 14:35 Matrix: Solid Date Received: 01/10/23 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 16:55	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	43786	01/12/23 09:15	KS	EET MID
Soluble	Analysis	300.0		5			43927	01/13/23 22:38	CH	EET MID

**Client Sample ID: PH05** Lab Sample ID: 890-3814-15

Date Collected: 01/09/23 14:40 **Matrix: Solid** Date Received: 01/10/23 09:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43747	01/11/23 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43877	01/13/23 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44107	01/16/23 17:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44027	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43836	01/12/23 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 17:17	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43786	01/12/23 09:15	KS	EET MID

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43927

01/13/23 22:44

CH

Laboratory References:

Soluble

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

300.0

Analysis

EET MID

# **Accreditation/Certification Summary**

Client: Ensolum Job ID: 890-3814-1 Project/Site: JALMAT YATES UNIT #188

SDG: Lea

**Laboratory: Eurofins Midland** 

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	• •	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

# **Method Summary**

Client: Ensolum Job ID: 890-3814-1

Project/Site: JALMAT YATES UNIT #188

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: JALMAT YATES UNIT #188

Job ID: 890-3814-1

SDG: Lea

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3814-1	PH01	Solid	01/09/23 11:00	01/10/23 09:05	2
890-3814-2	PH01	Solid	01/09/23 11:05	01/10/23 09:05	3
890-3814-3	PH01	Solid	01/09/23 11:10	01/10/23 09:05	4
890-3814-4	PH02	Solid	01/09/23 12:30	01/10/23 09:05	1
890-3814-5	PH02	Solid	01/09/23 12:35	01/10/23 09:05	4
890-3814-6	PH02	Solid	01/09/23 12:40	01/10/23 09:05	8
890-3814-7	PH03	Solid	01/09/23 13:35	01/10/23 09:05	1
890-3814-8	PH03	Solid	01/09/23 13:40	01/10/23 09:05	4
890-3814-9	PH03	Solid	01/09/23 13:45	01/10/23 09:05	8
890-3814-10	PH04	Solid	01/09/23 13:50	01/10/23 09:05	1
890-3814-11	PH04	Solid	01/09/23 13:55	01/10/23 09:05	4
890-3814-12	PH04	Solid	01/09/23 14:00	01/10/23 09:05	8
890-3814-13	PH05	Solid	01/09/23 14:30	01/10/23 09:05	1
890-3814-14	PH05	Solid	01/09/23 14:35	01/10/23 09:05	4
890-3814-15	PH05	Solid	01/09/23 14:40	01/10/23 09:05	8

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Relinquished by: (Signature)

Received by: (Signature)

50° EC:01. Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

att.

# **Chain of Custody**

eurofins		Environment Testing Xenco	sting	Hou Midlan EL P Hobl	uston, T. nd, TX (4 aso, TX bs, NM)	x (281) 432) 70 (315) 4 (575) 3	240-42 4-5440 585-344 92-755(	00 Da San A San A 13, Lubi	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:	1/16
Project Manager:	Hadlie Green			Bill to: (if different)	3	Kalei	Kalei Jennings	gs		Work Order Comments	ts
	Ensolum, LLC			Company Name:	Ö.	Enso	Ensolum, LLC	င		Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	RRC Superfund
	601 N Marienfeld St Suite 400	St Suite 400		Address:		601 1	V Marie	nfeld	601 N Marienfeld St Suite 400	State of Project:	
le ZIP:	Midland, TX 79701			City, State ZIP:		Midla	Midland, TX 79701	7970		Reporting: Level II  Level III  PST/UST  TRRP	TRRP Level IVL
	432-557-8895		Email:	Email: kjennings@ensolum.com, hgreen@ensolum.com	nsolun	n.com	hgre	en@e	solum.com	Deliverables: EDD	Other:
Project Name:	Jalmat Yates Unit #188	Unit #188	Turn	Turn Around					ANALYSIS REQUEST		Preservative Codes
Project Number:	03D2057055	7055	☑ Routine	Rush	Code					None: NO	DI Water: H <sub>2</sub> O
Project Location:	Lea	U	Due Date:				_			Cool: Cool	
Sampler's Name:	Peter Van Patten	Patten	TAT starts the	TAT starts the day received by						HCL: HC	
PO#			the lab, if rece	the lab, if received by 4:30pm	ers	_				H <sub>2</sub> OO <sub>4</sub> . H <sub>2</sub>	Na OH: Na
SAMPLE RECEIPT	Temp Blank:	C Yes No	Wet Ice:	Kes No	met	0.0)				H <sub>3</sub> PO <sub>4</sub> : H <sub>7</sub>	7
Samples Received Intact:	Yes	o Thermometer ID:	er ID:	MACO T	Para	A: 30				Nation, Nation Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes No	$\overline{}$	Reading:	2)	ш	S (EI		)	890-3814 Chain of Custody		
Total Containers:		Corrected Temperature:	emperature:	9.6		RIDE	015)	(8021	-	-	NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix Sampled	Time Sampled	Depth Comp	# of	CHLO	трн (8	BTEX		Sar	Sample Comments age
PHO1	1 Soil	il 1/9/2023	1100	2' Comp		×	×	×			
PHO1	1 Soil	il 1/9/2023	1105	3' Comp	7	×	×	×			
PHO1	Soil	1/9/2023	1110	4' Comp	7	×	×	×			
PHO2	2 Soil	1/9/2023	1230	1' Comp		×	×	×			
PHO2	2 Soil	il 1/9/2023	1235	4' Comp	7	×	×	×			
PHO2	2 Soil	1/9/2023	1240	8' Comp	7	×	×	×			M
PHO3	3 Soil	1/9/2023	1335	1' Comp	7	×	×	×			P
рноз	3 Soil	1/0/2023	1340	4' Comp	-	×	×	X			1:45
РНОЗ			1345	8' Comp	_	×	×	×			:52
											24 1
Total 200.7 / 6010	10 200.8 / 6020:		8RCRA 13PPM	M Texas 11		Al Sb As	Ba	Ве В	Fe	O Ni K Se A	
Circle Method(s) and Metal(s) to be analyzed	nd Metal(s) to be ar	nalyzed	TCLP / SI	TCLP / SPLP 6010: 8RCRA Sb As Ba Be	CRA	Sp /	As Ba	Be	Cd Cr Co Cu Pb Mn Mo	Win Mo Ni Se Ag TI U Hg: 1631/245.1//4/0//4/	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subco	locument and relinquish	nent of samples con	stitutes a valid pu	chase order from	client c	ompany	to Euro	fins Xer	co, its affiliates and subcontractors.	ntractors. It assigns standard terms and conditions h losses are due to circumstances beyond the control	g: 9/
of Eurofins Xenco. A mini	mum charge of \$85.00 w	III be applied to each	project and a cha	rge of \$5 for each	sample	submitt	ed to Eu	rofins )	enco, but not analyzed. These terms	of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	gin

**:** eurofins

Xenco

Environment Testing

Company Name: Project Manager:

Ensolum, LLC Hadlie Green

Bill to: (if different) Company Name:

601 N Marienfeld St Suite 400

Ensolum, LLC Kalei Jennings

601 N Marienfeld St Suite 400

121314

# 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:
www.xenco.com Page 2 of 2
Work Order Comments
 Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II  Level III  PST/UST TRRP Level IV

Revised Date: 08/25/2020 Rev. 2020 2		6								5
		4								3
		2					Scre		かれ	" Pota Vins
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	0	e)	Received by: (Signature)	Received	re)	y: (Signatu	Relinquished by: (Signature)
	rcumstances beyond the control orced unless previously negotiated.	of service. Eurofins Xenco will be lable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	sses or expenses in mitted to Eurofins X	ty for any lo sample sub	any responsibili e of \$6 for each	shall not assume a	st of samples and applied to each p	e of \$85.00 will be	nco will be liak	of Eurofins Xenco. A m
	standard terms and conditions	Indian Stonature of this document and reliangishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	any to Eurofins Xen	client comp	ase order from	tutes a valid purch	of samples const	d relinquishment	document an	Notice: Signature of thi
/7470 /7471	Ag TI U Hg: 1631 / 245.1 / 7470 / 7471	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	b As Ba Be C		TCLP / SPLP 6010: 8RCRA	TCLP / SPL	zed	s) to be analy	and Metai(	Circle Method(s) and Metal(s) to be analyzed
I Sn U V Zn	K Se A	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni	Ba Be B	Al Sb As	1 Texas 11	8RCRA 13PPM	18	200.8 / 6020:		Total 200.7 / 6010
			+							
			×		Comp	1440 8'	1/9/2023	Soil	05	PH05
			×		Comp	1435 4'	1/9/2023	Soil	05	PHO5
			× ×		Comp	1430 1'	1/9/2023	Soil	05	PHO5
			×		Comp	1400 8'	1/9/2023	Soil	2	PHO4
			×		Comp	1355 4'	1/9/2023	Soil	04	PHO4
			× ×	-	Comp	1350 1'	1/9/2023	Soil	04	PHO4
Sample Comments			TPH (8	# of Cont	Depth Comp	Time D	Date Sampled	Matrix	ntification	Sample Identification
NaOn+Ascoldic Acid: SAFO	Na ac		015			nperature:	Corrected Temperature			Total Containers:
Zn Acetate+NaOH: Zn	Zn Ac		)			Sading!	Temperature Reading:	S NO N/A	als: Yes	Sample Custody Seals:
Nd20203. Nd003	1 Z		PA			Stor:	Correction Factor:	S NO N/A	als: Yes	Cooler Custody Seals:
Namso4: NABIS	Z A A		300			P	Thermometer ID	Yes No	-	Samples Received Intact:
* H	H <sub>3</sub> PO <sub>4</sub> : H <sub>2</sub>		).0)	met	Yes No	Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
Π <sub>2</sub> NaO⊓. Na	H <sub>2</sub> SU <sub>4</sub> . H <sub>2</sub>			ers	ed by 4:30pm	the lab, if received by 4:30pm				PO#:
	HCC: HC				ay received by	TAT starts the day received by	tten	Peter Van Patten		Sampler's Name:
	Cool: Cool					Due Date:		Lea		Project Location:
NO DI Water: H <sub>2</sub> O	None: NO			Code	Rush	☑ Routine [	G	03D2057055		Project Number:
ervath		ANALYSIS REQUEST			ound	Turn Around	t #188	Jalmat Yates Unit #188	Jalı	Project Name:
Cuci	Deliverables, EDD [_] ADAFT [_		Email: kjennings@ensolum.com, hgreen@ensolum.com	solum.co	ennings@en	Email: kie		8895	432-557-8895	Phone:
C#C:	] Level III		Midland, TX 79701	M	City, State ZIP:	S:		Midland, TX 79701	Midland,	City, State ZIP:

# **Login Sample Receipt Checklist**

Client: Ensolum Job Number: 890-3814-1

SDG Number: Lea

Login Number: 3814 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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: 890-3814-1

SDG Number: Lea

Login Number: 3814 **List Source: Eurofins Midland** List Number: 2

List Creation: 01/11/23 11:43 AM

Creator: Teel, Brianna

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Released to Imaging: 9/12/2024 1:52:49 PM

<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joe Gable Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/6/2023 2:09:36 PM

# **JOB DESCRIPTION**

Jalmat 188 - Maverick SDG NUMBER 03D2057055

# **JOB NUMBER**

890-4182-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

# **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**

Generated 3/6/2023 2:09:36 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of

Client: Ensolum
Project/Site: Jalmat 188 - Maverick
Laboratory Job ID: 890-4182-1
SDG: 03D2057055

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Racaint Chacklists	27

2

3

4

6

8

10

12

13

14

# **Definitions/Glossary**

Client: Ensolum Job ID: 890-4182-1 Project/Site: Jalmat 188 - Maverick

SDG: 03D2057055

### **Qualifiers**

### **GC VOA**

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

### **GC Semi VOA**

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description
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.
n	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)

**Eurofins Carlsbad** 

RL **RPD** 

TEF

TEQ

TNTC

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Relative Percent Difference, a measure of the relative difference between two points

### Case Narrative

Client: Ensolum

Project/Site: Jalmat 188 - Maverick

Job ID: 890-4182-1

SDG: 03D2057055

Job ID: 890-4182-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4182-1

### Receipt

The samples were received on 2/23/2023 2:52 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 2.0°C

### **Receipt Exceptions**

The following samples analyzed for method <FRACTION\_METHOD> were received and analyzed from an unpreserved bulk soil jar: PH06A (890-4182-1), PH06D (890-4182-2), PH06F (890-4182-3), PH07A (890-4182-4), PH07D (890-4182-5) and PH07F (890-4182-6).

The following samples were received and analyzed from an unpreserved bulk soil jar: PH06A (890-4182-1), PH06D (890-4182-2), PH06F (890-4182-3), PH07A (890-4182-4), PH07D (890-4182-5) and PH07F (890-4182-6).

### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47633 and analytical batch 880-47785 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.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-47633 and analytical batch 880-47785. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: The spiking solution was inadvertently omitted during the extraction process for the laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) associated with preparation batch 880-47633; therefore, percent recoveries are unavailable. Due to only needing an LCS or LCSD for qualification, the affected samples were notre-prepared and or re-analyzed, and the results have been reported.

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: PH06A (890-4182-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-4182-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The method blank for preparation batch 880-47331 and analytical batch 880-47385 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-47356 and analytical batch 880-47599 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

### HPLC/IC

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

# **Client Sample Results**

Client: Ensolum Job ID: 890-4182-1
Project/Site: Jalmat 188 - Maverick SDG: 03D2057055

Client Sample ID: PH06A

Lab Sample ID: 890-4182-1

Date Collected: 02/23/23 12:20 Date Received: 02/23/23 14:52

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		03/02/23 11:45	03/05/23 03:59	1
Toluene	<0.00200	U *- *1	0.00200	mg/Kg		03/02/23 11:45	03/05/23 03:59	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		03/02/23 11:45	03/05/23 03:59	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399	mg/Kg		03/02/23 11:45	03/05/23 03:59	1
o-Xylene	<0.00200	U *-	0.00200	mg/Kg		03/02/23 11:45	03/05/23 03:59	1
Xylenes, Total	<0.00399	U *-	0.00399	mg/Kg		03/02/23 11:45	03/05/23 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			03/02/23 11:45	03/05/23 03:59	1
1,4-Difluorobenzene (Surr)	85		70 - 130			03/02/23 11:45	03/05/23 03:59	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/06/23 14:55	1
: Method: SW846 8015 NM - Diese	•		GC)					
: Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (C		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	Qualifier	GC)		<u>D</u>	Prepared		
Analyte Total TPH	Result   <50.0	Qualifier U	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH  Method: SW846 8015B NM - Dies	Result  <50.0 sel Range Orga	Qualifier U	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result  <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0	Unit mg/Kg		<u> </u>	Analyzed 03/01/23 14:20	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0  sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	GC) RL 50.0  (GC) RL 50.0	Unit mg/Kg  Unit mg/Kg		Prepared 02/27/23 14:00	Analyzed 03/01/23 14:20  Analyzed 02/28/23 11:14	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	GC)  RL  50.0  (GC)  RL	Unit mg/Kg		Prepared	Analyzed 03/01/23 14:20 Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0  sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	GC) RL 50.0  (GC) RL 50.0	Unit mg/Kg  Unit mg/Kg		Prepared 02/27/23 14:00	Analyzed 03/01/23 14:20  Analyzed 02/28/23 11:14	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <50.0	Qualifier U  nics (DRO) Qualifier U	GC) RL 50.0  (GC) RL 50.0  50.0	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/23 14:00 02/27/23 14:00	Analyzed 03/01/23 14:20  Analyzed 02/28/23 11:14 02/28/23 11:14	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U	GC) RL 50.0  (GC) RL 50.0  50.0  50.0	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/23 14:00 02/27/23 14:00 02/27/23 14:00	Analyzed 03/01/23 14:20  Analyzed 02/28/23 11:14 02/28/23 11:14	Dil Face  1  1  Dil Face
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	GC) RL 50.0  (GC) RL 50.0  50.0  50.0  Limits	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/23 14:00 02/27/23 14:00 02/27/23 14:00 Prepared	Analyzed 03/01/23 14:20  Analyzed 02/28/23 11:14 02/28/23 11:14  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+ S1+	GC)  RL  50.0  (GC)  RL  50.0  50.0  50.0  Limits  70 - 130  70 - 130	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/23 14:00 02/27/23 14:00 02/27/23 14:00  Prepared 02/27/23 14:00	Analyzed 03/01/23 14:20  Analyzed 02/28/23 11:14 02/28/23 11:14  Analyzed 02/28/23 11:14	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+ S1+	GC)  RL  50.0  (GC)  RL  50.0  50.0  50.0  Limits  70 - 130  70 - 130	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 02/27/23 14:00 02/27/23 14:00 02/27/23 14:00  Prepared 02/27/23 14:00	Analyzed 03/01/23 14:20  Analyzed 02/28/23 11:14 02/28/23 11:14  Analyzed 02/28/23 11:14	Dil Fac  Dil Fac  1  Dil Fac  1  Dil Fac  1  Dil Fac  1  Dil Fac

Client Sample ID: PH06D Lab Sample ID: 890-4182-2

Date Collected: 02/23/23 12:35 Date Received: 02/23/23 14:52

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		03/02/23 11:45	03/05/23 04:26	1
Toluene	<0.00200	U *- *1	0.00200	mg/Kg		03/02/23 11:45	03/05/23 04:26	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		03/02/23 11:45	03/05/23 04:26	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401	mg/Kg		03/02/23 11:45	03/05/23 04:26	1
o-Xylene	<0.00200	U *-	0.00200	mg/Kg		03/02/23 11:45	03/05/23 04:26	1
Xylenes, Total	<0.00401	U *-	0.00401	mg/Kg		03/02/23 11:45	03/05/23 04:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			03/02/23 11:45	03/05/23 04:26	

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**Matrix: Solid** 

Client: Ensolum Project/Site: Jalmat 188 - Maverick

Job ID: 890-4182-1

SDG: 03D2057055

Matrix: Solid

Lab Sample ID: 890-4182-2

**Client Sample ID: PH06D** 

Date Collected: 02/23/23 12:35 Date Received: 02/23/23 14:52

Sample Depth: 4'

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

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	03/02/23 11:45	03/05/23 04:26	1

Method: TAL SOP	Total RTEY - Tota	I RTEY Calculation
Method. IAL SUP	TOTAL DIEV - LOTA	I DIEA CAICUIALION

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	mg/Kg			03/06/23 14:55	1

1					
Mathadi	: SW846 8015 NM	Discal Bange	Organica		CC
i welliou.	IVIVI CI UO OHOVVE	- Diesei Kanue	Organics	וטאטו	1001

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/01/23 14:20	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

		(=::=)	()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/27/23 14:00	02/28/23 12:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/27/23 14:00	02/28/23 12:20	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/27/23 14:00	02/28/23 12:20	1
Surrogate	%Recovery	Qualifier	l imits			Propared	Analyzed	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115	70 - 130	02/27/23 14:00	02/28/23 12:20	1
o-Terphenyl	108	70 - 130	02/27/23 14:00	02/28/23 12:20	1

Method: EPA 300.0 -	Anions, Ion	Chromatography	y - Soluble
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.4		4.97	mg/Kg			02/28/23 15:10	1

**Client Sample ID: PH06F** Lab Sample ID: 890-4182-3 Matrix: Solid

Date Collected: 02/23/23 12:45 Date Received: 02/23/23 14:52

Sample Depth: 6'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		03/02/23 11:45	03/05/23 06:11	1
Toluene	< 0.00199	U *- *1	0.00199	mg/Kg		03/02/23 11:45	03/05/23 06:11	1
Ethylbenzene	< 0.00199	U *- *1	0.00199	mg/Kg		03/02/23 11:45	03/05/23 06:11	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		03/02/23 11:45	03/05/23 06:11	1
o-Xylene	< 0.00199	U *-	0.00199	mg/Kg		03/02/23 11:45	03/05/23 06:11	1
Xylenes, Total	<0.00398	U *-	0.00398	mg/Kg		03/02/23 11:45	03/05/23 06:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			03/02/23 11:45	03/05/23 06:11	1
1 4 Diffusionahanzana (Cum)	00		70 120			02/02/22 11:45	02/05/22 06:44	1

			<u></u>		
4-Bromofluorobenzene (Surr)	115	70 - 1	03/02/23 11:45	03/05/23 06:11	1
1,4-Difluorobenzene (Surr)	90	70 - 1	03/02/23 11:45	03/05/23 06:11	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			03/06/23 14:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/01/23 14:20	1

Lab Sample ID: 890-4182-3

02/28/23 15:17

Lab Sample ID: 890-4182-4

Matrix: Solid

# **Client Sample Results**

Client: Ensolum Job ID: 890-4182-1
Project/Site: Jalmat 188 - Maverick SDG: 03D2057055

Client Sample ID: PH06F

Date Collected: 02/23/23 12:45 Date Received: 02/23/23 14:52

Sample Depth: 6'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/27/23 14:00	02/28/23 12:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/27/23 14:00	02/28/23 12:42	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/27/23 14:00	02/28/23 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			02/27/23 14:00	02/28/23 12:42	1
o-Terphenyl	113		70 - 130			02/27/23 14:00	02/28/23 12:42	1
Method: EPA 300.0 - Anions, Ion	Chromatogram	shy Solubl	•					
Analyte	• •	Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

4.99

mg/Kg

27.8

**Client Sample ID: PH07A** 

Date Collected: 02/23/23 13:00

Date Received: 02/23/23 14:52

Sample Depth: 1'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		03/02/23 11:45	03/05/23 06:36	1
Toluene	<0.00201	U *- *1	0.00201	mg/Kg		03/02/23 11:45	03/05/23 06:36	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		03/02/23 11:45	03/05/23 06:36	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402	mg/Kg		03/02/23 11:45	03/05/23 06:36	1
o-Xylene	<0.00201	U *-	0.00201	mg/Kg		03/02/23 11:45	03/05/23 06:36	1
Xylenes, Total	<0.00402	U *-	0.00402	mg/Kg		03/02/23 11:45	03/05/23 06:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130			03/02/23 11:45	03/05/23 06:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130			03/02/23 11:45	03/05/23 06:36	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/06/23 14:55	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (0	3C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/01/23 14:20	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		02/27/23 14:00	02/28/23 13:04	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0		50.0 50.0	mg/Kg mg/Kg		02/27/23 14:00 02/27/23 14:00	02/28/23 13:04 02/28/23 13:04	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U		0 0				
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/27/23 14:00	02/28/23 13:04	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<50.0 <50.0	U	50.0	mg/Kg		02/27/23 14:00 02/27/23 14:00	02/28/23 13:04 02/28/23 13:04	1

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Lab Sample ID: 890-4182-4

# **Client Sample Results**

Client: Ensolum Job ID: 890-4182-1 Project/Site: Jalmat 188 - Maverick

SDG: 03D2057055

**Client Sample ID: PH07A** Date Collected: 02/23/23 13:00 Date Received: 02/23/23 14:52

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	mg/Kg			02/28/23 15:23	1	

**Client Sample ID: PH07D** Lab Sample ID: 890-4182-5 Matrix: Solid

Date Collected: 02/23/23 13:15 Date Received: 02/23/23 14:52

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		03/02/23 11:45	03/05/23 07:03	1
Toluene	<0.00201	U *- *1	0.00201	mg/Kg		03/02/23 11:45	03/05/23 07:03	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		03/02/23 11:45	03/05/23 07:03	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402	mg/Kg		03/02/23 11:45	03/05/23 07:03	1
o-Xylene	<0.00201	U *-	0.00201	mg/Kg		03/02/23 11:45	03/05/23 07:03	1
Xylenes, Total	<0.00402	U *-	0.00402	mg/Kg		03/02/23 11:45	03/05/23 07:03	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			03/02/23 11:45	03/05/23 07:03	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/02/23 11:45	03/05/23 07:03	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/06/23 14:55	1
Analyte Total TPH	Result < 50.0	Qualifier U	50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/01/23 14:20	Dil Fac
				9/1.9			33/31/2311.23	
Method: SW846 8015B NM - Die: Analyte		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/27/23 14:00	02/28/23 13:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/27/23 14:00	02/28/23 13:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/27/23 14:00	02/28/23 13:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			02/27/23 14:00	02/28/23 13:26	1
o-Terphenyl	109		70 - 130			02/27/23 14:00	02/28/23 13:26	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Method: EPA 300.0 - Anions, Ion Analyte	• •	hy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-4182-6

# **Client Sample Results**

Client: Ensolum Job ID: 890-4182-1
Project/Site: Jalmat 188 - Maverick SDG: 03D2057055

**Client Sample ID: PH07F** 

Date Collected: 02/23/23 13:25 Date Received: 02/23/23 14:52

Sample Depth: 6'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		03/02/23 11:45	03/05/23 07:31	
Toluene	< 0.00199	U *- *1	0.00199	mg/Kg		03/02/23 11:45	03/05/23 07:31	
Ethylbenzene	< 0.00199	U *- *1	0.00199	mg/Kg		03/02/23 11:45	03/05/23 07:31	
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		03/02/23 11:45	03/05/23 07:31	
o-Xylene	< 0.00199	U *-	0.00199	mg/Kg		03/02/23 11:45	03/05/23 07:31	
Xylenes, Total	<0.00398	U *-	0.00398	mg/Kg		03/02/23 11:45	03/05/23 07:31	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			03/02/23 11:45	03/05/23 07:31	-
1,4-Difluorobenzene (Surr)	89		70 - 130			03/02/23 11:45	03/05/23 07:31	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/06/23 14:55	
Method: SW846 8015 NM - Diese Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzad	
							Allalyzeu	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg		Теригеи	Analyzed 03/03/23 12:43	Dil Fac
					=	Tropulcu		
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)		<u></u> D		03/03/23 12:43	
Method: SW846 8015B NM - Dies Analyte	sel Range Orga	nics (DRO) Qualifier		mg/Kg		Prepared 02/27/23 16:37		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result	nics (DRO) Qualifier	(GC)	mg/Kg		Prepared	03/03/23 12:43  Analyzed	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result	nics (DRO) Qualifier	(GC)	mg/Kg		Prepared	03/03/23 12:43  Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC)  RL 49.9	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/27/23 16:37 02/27/23 16:37	03/03/23 12:43  Analyzed  03/02/23 10:37  03/02/23 10:37	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg  Unit  mg/Kg		Prepared 02/27/23 16:37	03/03/23 12:43  Analyzed  03/02/23 10:37	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9	nics (DRO) Qualifier U *1	(GC)  RL 49.9	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/27/23 16:37 02/27/23 16:37	03/03/23 12:43  Analyzed  03/02/23 10:37  03/02/23 10:37	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U *1	(GC)  RL 49.9  49.9  49.9	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/27/23 16:37 02/27/23 16:37 02/27/23 16:37	03/03/23 12:43  Analyzed 03/02/23 10:37 03/02/23 10:37	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Sel Range Orga   Result   <49.9   <49.9   <49.9   %Recovery	nics (DRO) Qualifier U *1	(GC)  RL 49.9  49.9  49.9  Limits	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/27/23 16:37 02/27/23 16:37 02/27/23 16:37 Prepared	03/03/23 12:43  Analyzed 03/02/23 10:37 03/02/23 10:37 03/02/23 10:37  Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga           Result         <49.9	U*1 U Qualifier	(GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/27/23 16:37 02/27/23 16:37 02/27/23 16:37  Prepared 02/27/23 16:37	03/03/23 12:43  Analyzed 03/02/23 10:37  03/02/23 10:37  Analyzed 03/02/23 10:37	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte	sel Range Orga Result <49.9 <49.9 <49.9  **Recovery 106 104  Chromatograp	U*1 U Qualifier	(GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/27/23 16:37 02/27/23 16:37 02/27/23 16:37  Prepared 02/27/23 16:37	03/03/23 12:43  Analyzed 03/02/23 10:37  03/02/23 10:37  Analyzed 03/02/23 10:37	Dil Fac

# **Surrogate Summary**

Client: Ensolum Job ID: 890-4182-1
Project/Site: Jalmat 188 - Maverick SDG: 03D2057055

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrog
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4169-A-1-C MS	Matrix Spike	109	101	
890-4169-A-1-D MSD	Matrix Spike Duplicate	17145	21742	
		S1+	S1+	
890-4182-1	PH06A	130	85	
890-4182-2	PH06D	135 S1+	98	
890-4182-3	PH06F	115	90	
890-4182-4	PH07A	150 S1+	93	
890-4182-5	PH07D	143 S1+	101	
890-4182-6	PH07F	136 S1+	89	
LCS 880-47633/1-A	Lab Control Sample	119	94	
LCSD 880-47633/2-A	Lab Control Sample Dup	119	96	
MB 880-47632/5-A	Method Blank	67 S1-	85	
MB 880-47633/5-A	Method Blank	71	82	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4182-1	PH06A	208 S1+	198 S1+	
890-4182-1 MS	PH06A	101	97	
890-4182-1 MSD	PH06A	140 S1+	113	
890-4182-2	PH06D	115	108	
890-4182-3	PH06F	120	113	
890-4182-4	PH07A	100	101	
890-4182-5	PH07D	114	109	
890-4182-6	PH07F	106	104	
890-4182-6 MS	PH07F	104	98	
890-4182-6 MSD	PH07F	106	99	
LCS 880-47331/2-A	Lab Control Sample	77	81	
LCS 880-47356/2-A	Lab Control Sample	109	108	
LCSD 880-47331/3-A	Lab Control Sample Dup	89	85	
LCSD 880-47356/3-A	Lab Control Sample Dup	84	90	
MB 880-47331/1-A	Method Blank	105	104	
MB 880-47356/1-A	Method Blank	107	110	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

# QC Sample Results

Client: Ensolum Job ID: 890-4182-1 Project/Site: Jalmat 188 - Maverick SDG: 03D2057055

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47632/5-A

**Matrix: Solid** 

Analysis Batch: 47785

Client Sample ID: Method Blank

Prep	Type: Total/NA
Pre	p Batch: 47632

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/23 11:31	03/04/23 10:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/23 11:31	03/04/23 10:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/23 11:31	03/04/23 10:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/02/23 11:31	03/04/23 10:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/23 11:31	03/04/23 10:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/02/23 11:31	03/04/23 10:38	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	03/02/23 11:31	03/04/23 10:38	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/02/23 11:31	03/04/23 10:38	1

Lab Sample ID: MB 880-47633/5-A

**Matrix: Solid** 

Analysis Batch: 47785

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

03/05/23 00:03

Prep Batch: 47633

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 03/02/23 11:45 03/05/23 00:03 Toluene <0.00200 U 0.00200 mg/Kg 03/02/23 11:45 03/05/23 00:03 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/02/23 11:45 03/05/23 00:03 <0.00400 U 0.00400 03/02/23 11:45 m-Xylene & p-Xylene mg/Kg 03/05/23 00:03 <0.00200 U 0.00200 03/05/23 00:03 o-Xylene mg/Kg 03/02/23 11:45

0.00400

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	03/02/23 1	1:45	03/05/23 00:03	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/02/23 1	1:45	03/05/23 00:03	1

Lab Sample ID: LCS 880-47633/1-A

**Matrix: Solid** 

Xylenes, Total

**Analysis Batch: 47785** 

**Client Sample ID: Lab Control Sample** 

03/02/23 11:45

Prep Type: Total/NA Prep Batch: 47633

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09295		mg/Kg		93	70 - 130	
Toluene	0.100	0.08689		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.09172		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.09291		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1.4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-47633/2-A

**Matrix: Solid** 

**Analysis Batch: 47785** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47633

	Spike	LUSD	LUGD				/orec		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.05116	*- *1	mg/Kg		51	70 - 130	58	35	

LCCD LCCD

Chiles

**Eurofins Carlsbad** 

Page 12 of 28

# QC Sample Results

Client: Ensolum Job ID: 890-4182-1 Project/Site: Jalmat 188 - Maverick SDG: 03D2057055

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

Lab Sample ID: LCSD 880-47633/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 47785 Prep Batch: 47633 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.03518 \*- \*1 35 70 - 130 35 mg/Kg 85 Ethylbenzene 0.100 0.009089 \*- \*1 mg/Kg 9 70 - 130 164 35 0.200 0.1357 \*- \*1 m-Xylene & p-Xylene mg/Kg 68 70 - 130 37 35 o-Xylene 0.100 0.06679 \*mg/Kg 67 70 - 130 33 35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-4169-A-1-C MS Client Sample ID: Matrix Spike

Analysis Batch: 47785

**Matrix: Solid** Prep Type: Total/NA Prep Batch: 47633

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00200	U *- *1 F1	0.100	0.07714		mg/Kg		77	70 - 130	
<0.00200	U F1 *- *1	0.100	0.04719	F1	mg/Kg		47	70 - 130	
<0.00200	U F1 *- *1	0.100	0.01702	F1	mg/Kg		17	70 - 130	
<0.00401	U *- *1 F1	0.200	0.1643		mg/Kg		82	70 - 130	
<0.00200	U *- F1 F2	0.100	0.08334		mg/Kg		83	70 - 130	
	Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00401	Sample   Result   Qualifier	Result         Qualifier         Added           <0.00200	Result         Qualifier         Added         Result           <0.00200	Result         Qualifier         Added         Result         Qualifier           <0.00200	Result         Qualifier         Added         Result         Qualifier         Unit           <0.00200	Result         Qualifier         Added         Result         Qualifier         Unit         D           <0.00200	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec           <0.00200	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec         Limits           <0.00200

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-4169-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 47785** 

Prep Batch: 47633 %Rec Spike MSD MSD RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00200 U \*- \*1 F1 0.0990 <0.00198 U F1 mg/Kg 0 70 - 130 NC 35 Toluene <0.00200 U F1 \*- \*1 0.0990 <0.00198 UF1 mg/Kg 0 70 - 130 NC 35 Ethylbenzene <0.00200 U F1 \*- \*1 0.0990 <0.00198 UF1 mg/Kg 0 70 - 130 NC 35 <0.00396 UF1 0 <0.00401 U \*- \*1 F1 0.198 70 - 130 NC 35 m-Xylene & p-Xylene mg/Kg <0.00200 U\*-F1F2 0.0990 o-Xylene <0.00198 U F1 F2 mg/Kg 70 - 130 191 35

	MSD	MSD			
Surrogate	%Recovery	Recovery Qualifier			
4-Bromofluorobenzene (Surr)	17145	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	21742	S1+	70 - 130		

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

Lab Sample ID: MB 880-47331/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 47385 Prep Batch: 47331

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 02/27/23 14:00 02/28/23 08:39

Project/Site: Jalmat 188 - Maverick

Client: Ensolum

Job ID: 890-4182-1

SDG: 03D2057055

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

Lab Sample ID: MB 880-47331/1-A **Matrix: Solid** 

Analysis Batch: 47385

MB MB

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

Prep Batch: 47331

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/27/23 14:00	02/28/23 08:39	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/27/23 14:00	02/28/23 08:39	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	105		70 - 130	02/27/23 14:00	02/28/23 08:39	1
l	o-Terphenyl	104		70 - 130	02/27/23 14:00	02/28/23 08:39	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-47331/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 47385 Prep Batch: 47331

Prep Type: Total/NA

7

20

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	809.0		mg/Kg		81	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	817.2		mg/Kg		82	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	81		70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

88

Lab Sample ID: LCSD 880-47331/3-A **Matrix: Solid** 

Analysis Batch: 47385

Gasoline Range Organics

Diesel Range Organics (Over

Prep Batch: 47331 Spike LCSD LCSD %Rec RPD Added Result Qualifier %Rec Limits RPD Limit Unit D 1000 866.0 mg/Kg 87 70 - 130 20

mg/Kg

C10-C28)

(GRO)-C6-C10

Analyte

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: 890-4182-1 MS Client Sample ID: PH06A **Matrix: Solid** Prep Type: Total/NA

875.2

1000

Prep Batch: 47331

Analysis Batch: 47385 Sample Sample Spike MS MS %Rec

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	998	952.2		mg/Kg		93	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	998	888.4		mg/Kg		87	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	97		70 - 130

# **QC Sample Results**

Client: Ensolum Job ID: 890-4182-1 SDG: 03D2057055 Project/Site: Jalmat 188 - Maverick

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

Lab Sample ID: 890-4182-1 MSD

**Matrix: Solid** 

Analysis Batch: 47385

Client Sample ID: PH06A						
Prep Type: Total/NA						
Pren Batch: 47331						

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	997	1087		mg/Kg		106	70 - 130	13	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	997	1053		mg/Kg		104	70 - 130	17	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	140	S1+	70 - 130			
o-Terphenyl	113		70 - 130			

Lab Sample ID: MB 880-47356/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 47599

Prep Type: Total/NA

Prep Batch: 47356

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/27/23 16:37	03/02/23 08:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/27/23 16:37	03/02/23 08:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/27/23 16:37	03/02/23 08:06	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	02/27/23 16:37	03/02/23 08:06	1
o-Terphenyl	110		70 - 130	02/27/23 16:37	03/02/23 08:06	1

Lab Sample ID: LCS 880-47356/2-A

**Matrix: Solid** 

Analysis Batch: 47599

Client Sample ID: I	Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 47356

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	1047		mg/Kg		105	70 - 130	 	
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1126		mg/Kg		113	70 - 130		
C10-C28)									

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-47356/3-A

Matrix: Solid

Analysis Batch: 47599

Client San	nole ID: La	ab Control	Sample Dup

Prep Type: Total/NA Prep Batch: 47356

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	912.6		mg/Kg		91	70 - 130	14	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	896.4	*1	mg/Kg		90	70 - 130	23	20	
C10-C28)										

Project/Site: Jalmat 188 - Maverick

Client: Ensolum

Job ID: 890-4182-1

SDG: 03D2057055

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

LCSD LCSD

Lab Sample ID: LCSD 880-47356/3-A

**Matrix: Solid** 

Analysis Batch: 47599

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47356

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130 o-Terphenyl 90 70 - 130

Lab Sample ID: 890-4182-6 MS **Client Sample ID: PH07F** 

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

Analysis Batch: 47599 Prep Batch: 47356 Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U 997 1148 111 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 997 1025 103 <49.9 U\*1 mg/Kg 70 - 130C10-C28)

MS MS %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 104 98 70 - 130 o-Terphenyl

Lab Sample ID: 890-4182-6 MSD **Client Sample ID: PH07F** 

**Matrix: Solid** 

**Analysis Batch: 47599** 

Prep Type: Total/NA Prep Batch: 47356 Sample Sample MSD MSD RPD Spike

Result Qualifier Analyte Result Qualifier hahhA Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.9 U 999 1193 mg/Kg 116 70 - 130 4 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U \*1 999 1031 mg/Kg 103 70 - 130 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 106 70 - 130 o-Terphenyl 99

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47347/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 47423** 

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 02/28/23 13:50

Lab Sample ID: LCS 880-47347/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 47423

Spike LCS LCS %Rec Result Analyte Added Qualifier Limits Unit Chloride 250 225.2 mg/Kg 90 - 110

# **QC Sample Results**

Client: Ensolum Job ID: 890-4182-1 Project/Site: Jalmat 188 - Maverick

SDG: 03D2057055

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-47347/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 47423

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	229.1		mg/Kg		92	90 - 110	2	20	

Lab Sample ID: 890-4182-6 MS **Client Sample ID: PH07F** Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 47423

-	Sample S	Sample	Spike	MS	MS				%Rec	
Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	14.4		249	250.2		mg/Kg		95	90 - 110	

Lab Sample ID: 890-4182-6 MSD **Client Sample ID: PH07F** Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 47423

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
l	Chloride	14.4		249	249.2		mg/Kg		94	90 - 110	0	20

# **QC Association Summary**

Client: Ensolum

Project/Site: Jalmat 188 - Maverick

Job ID: 890-4182-1

SDG: 03D2057055

## **GC VOA**

## Prep Batch: 47632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47632/5-A	Method Blank	Total/NA	Solid	5035	

### Prep Batch: 47633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4182-1	PH06A	Total/NA	Solid	5035	
890-4182-2	PH06D	Total/NA	Solid	5035	
890-4182-3	PH06F	Total/NA	Solid	5035	
890-4182-4	PH07A	Total/NA	Solid	5035	
890-4182-5	PH07D	Total/NA	Solid	5035	
890-4182-6	PH07F	Total/NA	Solid	5035	
MB 880-47633/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47633/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47633/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4169-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4169-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Analysis Batch: 47785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4182-1	PH06A	Total/NA	Solid	8021B	47633
890-4182-2	PH06D	Total/NA	Solid	8021B	47633
890-4182-3	PH06F	Total/NA	Solid	8021B	47633
890-4182-4	PH07A	Total/NA	Solid	8021B	47633
890-4182-5	PH07D	Total/NA	Solid	8021B	47633
890-4182-6	PH07F	Total/NA	Solid	8021B	47633
MB 880-47632/5-A	Method Blank	Total/NA	Solid	8021B	47632
MB 880-47633/5-A	Method Blank	Total/NA	Solid	8021B	47633
LCS 880-47633/1-A	Lab Control Sample	Total/NA	Solid	8021B	47633
LCSD 880-47633/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47633
890-4169-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	47633
890-4169-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47633

### Analysis Batch: 47956

<b>Lab Sample ID</b> 890-4182-1	Client Sample ID PH06A	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-4182-2	PH06D	Total/NA	Solid	Total BTEX	
890-4182-3	PH06F	Total/NA	Solid	Total BTEX	
890-4182-4	PH07A	Total/NA	Solid	Total BTEX	
890-4182-5	PH07D	Total/NA	Solid	Total BTEX	
890-4182-6	PH07F	Total/NA	Solid	Total BTEX	

## **GC Semi VOA**

### Prep Batch: 47331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4182-1	PH06A	Total/NA	Solid	8015NM Prep	
890-4182-2	PH06D	Total/NA	Solid	8015NM Prep	
890-4182-3	PH06F	Total/NA	Solid	8015NM Prep	
890-4182-4	PH07A	Total/NA	Solid	8015NM Prep	
890-4182-5	PH07D	Total/NA	Solid	8015NM Prep	
MB 880-47331/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47331/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

# **QC Association Summary**

Client: Ensolum

Project/Site: Jalmat 188 - Maverick

Job ID: 890-4182-1 SDG: 03D2057055

# 3

# GC Semi VOA (Continued)

## Prep Batch: 47331 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-47331/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4182-1 MS	PH06A	Total/NA	Solid	8015NM Prep	
890-4182-1 MSD	PH06A	Total/NA	Solid	8015NM Prep	

## Prep Batch: 47356

<b>Lab Sample ID</b> 890-4182-6	Client Sample ID PH07F	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-47356/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47356/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4182-6 MS	PH07F	Total/NA	Solid	8015NM Prep	
890-4182-6 MSD	PH07F	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 47385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4182-1	PH06A	Total/NA	Solid	8015B NM	47331
890-4182-2	PH06D	Total/NA	Solid	8015B NM	47331
890-4182-3	PH06F	Total/NA	Solid	8015B NM	47331
890-4182-4	PH07A	Total/NA	Solid	8015B NM	47331
890-4182-5	PH07D	Total/NA	Solid	8015B NM	47331
MB 880-47331/1-A	Method Blank	Total/NA	Solid	8015B NM	47331
LCS 880-47331/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47331
LCSD 880-47331/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47331
890-4182-1 MS	PH06A	Total/NA	Solid	8015B NM	47331
890-4182-1 MSD	PH06A	Total/NA	Solid	8015B NM	47331

### Analysis Batch: 47542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4182-1	PH06A	Total/NA	Solid	8015 NM	<del></del> .
890-4182-2	PH06D	Total/NA	Solid	8015 NM	
890-4182-3	PH06F	Total/NA	Solid	8015 NM	
890-4182-4	PH07A	Total/NA	Solid	8015 NM	
890-4182-5	PH07D	Total/NA	Solid	8015 NM	
890-4182-6	PH07F	Total/NA	Solid	8015 NM	

### Analysis Batch: 47599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4182-6	PH07F	Total/NA	Solid	8015B NM	47356
MB 880-47356/1-A	Method Blank	Total/NA	Solid	8015B NM	47356
LCS 880-47356/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47356
LCSD 880-47356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47356
890-4182-6 MS	PH07F	Total/NA	Solid	8015B NM	47356
890-4182-6 MSD	PH07F	Total/NA	Solid	8015B NM	47356

### HPLC/IC

### Leach Batch: 47347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4182-1	PH06A	Soluble	Solid	DI Leach	
890-4182-2	PH06D	Soluble	Solid	DI Leach	
890-4182-3	PH06F	Soluble	Solid	DI Leach	

# **QC Association Summary**

Client: Ensolum
Project/Site: Jalmat 188 - Maverick
SDG: 03D2057055

# **HPLC/IC** (Continued)

## Leach Batch: 47347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4182-4	PH07A	Soluble	Solid	DI Leach	
890-4182-5	PH07D	Soluble	Solid	DI Leach	
890-4182-6	PH07F	Soluble	Solid	DI Leach	
MB 880-47347/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4182-6 MS	PH07F	Soluble	Solid	DI Leach	
890-4182-6 MSD	PH07F	Soluble	Solid	DI Leach	

## Analysis Batch: 47423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4182-1	PH06A	Soluble	Solid	300.0	47347
890-4182-2	PH06D	Soluble	Solid	300.0	47347
890-4182-3	PH06F	Soluble	Solid	300.0	47347
890-4182-4	PH07A	Soluble	Solid	300.0	47347
890-4182-5	PH07D	Soluble	Solid	300.0	47347
890-4182-6	PH07F	Soluble	Solid	300.0	47347
MB 880-47347/1-A	Method Blank	Soluble	Solid	300.0	47347
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	300.0	47347
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47347
890-4182-6 MS	PH07F	Soluble	Solid	300.0	47347
890-4182-6 MSD	PH07F	Soluble	Solid	300.0	47347

Date Collected: 02/23/23 12:20 Date Received: 02/23/23 14:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 03:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47956	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47542	03/01/23 14:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47331	02/27/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47385	02/28/23 11:14	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 15:04	CH	EET MID

Client Sample ID: PH06D

Date Collected: 02/23/23 12:35

Date Received: 02/23/23 14:52

Lab Sample ID: 890-4182-2

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 47633 Total/NA 4.99 g 5 mL 03/02/23 11:45 MNR EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 47785 03/05/23 04:26 AJ Total/NA Total BTEX 47956 03/06/23 14:55 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 47542 03/01/23 14:20 SM **EET MID** Total/NA 8015NM Prep 47331 Prep 10.03 g 10 mL 02/27/23 14:00 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 47385 02/28/23 12:20 SM **EET MID** Soluble 5.03 g 02/27/23 15:44 Leach DI Leach 50 mL 47347 KS **EET MID** Soluble Analysis 300.0 47423 02/28/23 15:10 СН **EET MID** 

Client Sample ID: PH06F

Date Collected: 02/23/23 12:45

Date Received: 02/23/23 14:52

Lab	Sample	ID:	89	0-4	182	2-3	
					_		

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 06:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47956	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47542	03/01/23 14:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47331	02/27/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47385	02/28/23 12:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 15:17	CH	EET MID

**Client Sample ID: PH07A** 

Date Collected: 02/23/23 13:00

Date Received: 02/23/23 14:52

Lab Sample ID: 890-4182-4
---------------------------

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 06:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47956	03/06/23 14:55	AJ	EET MID

Client: Ensolum

Project/Site: Jalmat 188 - Maverick

Job ID: 890-4182-1 SDG: 03D2057055

Lab Sample ID: 890-4182-4

Matrix: Solid

**Client Sample ID: PH07A** 

Date Collected: 02/23/23 13:00 Date Received: 02/23/23 14:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47542	03/01/23 14:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47331	02/27/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47385	02/28/23 13:04	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 15:23	СН	EET MID

**Client Sample ID: PH07D** Lab Sample ID: 890-4182-5 **Matrix: Solid** 

Date Collected: 02/23/23 13:15 Date Received: 02/23/23 14:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 07:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47956	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47542	03/01/23 14:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47331	02/27/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47385	02/28/23 13:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 15:29	CH	EET MID

**Client Sample ID: PH07F** Lab Sample ID: 890-4182-6

Date Collected: 02/23/23 13:25 Date Received: 02/23/23 14:52

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 07:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47956	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47542	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 10:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 15:35	CH	EET MID

**Laboratory References:** 

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

**Eurofins Carlsbad** 

**Matrix: Solid** 

# **Accreditation/Certification Summary**

Client: Ensolum Job ID: 890-4182-1 Project/Site: Jalmat 188 - Maverick

SDG: 03D2057055

### **Laboratory: Eurofins Midland**

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

Authority		ogram	Identification Number	<b>Expiration Date</b>
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	• '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTFX	

# **Method Summary**

Client: Ensolum

Project/Site: Jalmat 188 - Maverick

Job ID: 890-4182-1 SDG: 03D2057055

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	EPA	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

EPA = US Environmental Protection Agency

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

**Eurofins Carlsbad** 

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# **Sample Summary**

Client: Ensolum

Project/Site: Jalmat 188 - Maverick

Job ID: 890-4182-1

SDG: 03D2057055

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4182-1	PH06A	Solid	02/23/23 12:20	02/23/23 14:52	1'
890-4182-2	PH06D	Solid	02/23/23 12:35	02/23/23 14:52	4'
890-4182-3	PH06F	Solid	02/23/23 12:45	02/23/23 14:52	6'
890-4182-4	PH07A	Solid	02/23/23 13:00	02/23/23 14:52	1'
890-4182-5	PH07D	Solid	02/23/23 13:15	02/23/23 14:52	4'
890-4182-6	PH07F	Solid	02/23/23 13:25	02/23/23 14:52	6'

**Environment Testing** 

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Work Order No:

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		447	202 14	じ	1	X X	12 X	My John	XVXX	La Participant
Received by: (Signature)  Date/Time		Relinquished by: (Signature)	Date/Time		ture)	Received by: (Signature)	Receive	(inde())	A P. (Signatu	Reimquished
ne control y negotiated.	ses are due to circumstances beyond the control terms will be enforced unless previously negotiated.		losses or expense	lity for any	arge of \$5 for each	nd shall not assu project and a ch	st of samples a applied to each	liable only for the co	A minimum ch	vice. Eurofin ofins Xenco.
anditions	ctors. It assigns standard terms and conditions	otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It a	npany to Eurofins .	n client cor	urchase order fron	stitutes a valid p	of samples con	nt and relinquishmen	of this documer	: Signature o
1/245.1/7470/74	0	So As Ba Be B Cd Ca Cr Co Cu Pe Po wig win wo wi	b As Ba Be		TCLP / SPLP 6010: 8RCRA	TCLP / SPLP		Total 200.7 / 6010 200.8 / 6020: ircle Method(s) and Metal(s) to be analyzed	200.7 / 6010 thod(s) and Met	Total 200.7
Ag SiO, Na Sr TI Sn U V Zn	Mn Mo Ni K Se		A	≥	11 1	11 1				
			+							
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					6	395	4	4	7	PHOT
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51 828 8 3 3					1 3	1220	02-73-73	S	5	VH0/0-
Sample Comments			TPH (8	# of Cont	Depth Grab/	Time Sampled	Date Sampled	on Matrix	Sample Identification	Sample
NaOH+Ascoldic Acid. SAFO			015)		2.0	emperature:	Corrected Temperature:		S.	otal Containers:
Zn Acetate+NaOH: Zn		030-4102 01911 01 00000	)		0.0	e Reading:	Temperature Reading:	Yes No WA		ample Custody Seals:
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			PA:	Pa	2.0-	actor:	Correction Factor:	Yes No NIA		ooler Custody Seals:
NaHSC4: NABIS			300	arar	TANK CET	yr ID:	Thermometer ID:	Yes No	ved Intact:	amples Received Intact:
H <sub>3</sub> PO <sub>4</sub> : HP			).0)	nete	(Yes No	Wet Ice:	(Yes No	Temp Blank:	CEIPT	SAMPLE RECEIPT
H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na				rs	the lab, if received by 4:30pm	the lab, if rece	) NAMES OF THE PARTY OF THE PAR	MANA POR	4	O#:
					do roomed by	TAT state the	SAL CO	12	1	motor's Name
Cool: Cool MeOH: Me				000		Due Date:	27158	Parent in	35	
None: NO DI Water: H <sub>2</sub> O				Code	Rush	Rou	5	フロスクノン	5	roject Number:
Preservative Codes	ST	ANALYSIS REQUEST			Turn Around	7	11 Duertick	MA+ 188	A	roject Name:
ADaPT LJ Other:	Deliverables: EDD	gable@ensolum.com		solum.c	Email: Mennings@ensolum.com,	Email:		903-386-8073	903-3	hone:
	porting: Level II Level		Midland, TX 79701	3	City, State ZIP:	-		Midland, TX 79701	Midlar	ity, State ZIP:
	State of Project:		601 N Marienfeld St Suite 400		Address:	_	uite 400	601 N Marienfeld St Suite 400		ddress:
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	ogram: UST/PST   PR	P	Ensolum, LLC		Company Name:	-		Ensolum, LLC		ompany Name:
Work Order Comments	Wor	orn HOCUMS	Kalei Jennings		Bill to: (if different)			able	er: Joe Gable	roject Manager:

# **Login Sample Receipt Checklist**

 Client: Ensolum
 Job Number: 890-4182-1

 SDG Number: 03D2057055

Login Number: 4182 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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	

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# **Login Sample Receipt Checklist**

Client: Ensolum

Job Number: 890-4182-1 SDG Number: 03D2057055

Login Number: 4182
List Source: Eurofins Midland
List Number: 2
List Creation: 02/27/23 08:59 AM

Creator: Rodriguez, Leticia

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	

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**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/9/2023 1:53:35 PM

# **JOB DESCRIPTION**

Jalmat 188 SDG NUMBER 03D2057055

# **JOB NUMBER**

890-4195-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **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**

Generated 3/9/2023 1:53:35 PM

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

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Client: Ensolum
Project/Site: Jalmat 188
Laboratory Job ID: 890-4195-1
SDG: 03D2057055

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

2

3

4

6

8

10

11

13

# **Definitions/Glossary**

Job ID: 890-4195-1 Client: Ensolum Project/Site: Jalmat 188 SDG: 03D2057055

#### **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. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

**Glossary** 

%R

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

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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

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

Presumptive **PRES** QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Ensolum
Project/Site: Jalmat 188

Job ID: 890-4195-1 SDG: 03D2057055

Job ID: 890-4195-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4195-1

#### Receipt

The samples were received on 2/24/2023 12:40 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 2.0°C

#### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48104 and analytical batch 880-48098 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

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47514 and analytical batch 880-47591 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.

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Lab Sample ID: 890-4195-1

# **Client Sample Results**

 Client: Ensolum
 Job ID: 890-4195-1

 Project/Site: Jalmat 188
 SDG: 03D2057055

Client Sample ID: PH08A

Date Collected: 02/24/23 09:15 Date Received: 02/24/23 12:40

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 14:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 14:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 14:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/08/23 09:47	03/08/23 14:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 14:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/08/23 09:47	03/08/23 14:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130			03/08/23 09:47	03/08/23 14:41	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130			03/08/23 09:47	03/08/23 14:41	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/09/23 14:36	1
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) ( Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
							· · · · · · · · · · · · · · · · · · ·	Diriac
Total TPH	<49.9	U	49.9	mg/Kg			03/01/23 16:06	1
Total TPH : Method: SW846 8015B NM - Die				mg/Kg				
- -	sel Range Orga			mg/Kg Unit	D	Prepared		
: Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 02/28/23 16:21	03/01/23 16:06	1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>	<u>·</u>	03/01/23 16:06  Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	02/28/23 16:21	03/01/23 16:06  Analyzed  03/01/23 15:17	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U U	(GC) RL 49.9	unit mg/Kg mg/Kg	<u>D</u>	02/28/23 16:21	03/01/23 16:06  Analyzed 03/01/23 15:17 03/01/23 15:17	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U U	(GC) RL 49.9 49.9 49.9	unit mg/Kg mg/Kg	<u>D</u>	02/28/23 16:21 02/28/23 16:21 02/28/23 16:21	03/01/23 16:06  Analyzed 03/01/23 15:17 03/01/23 15:17	Dil Fac  1  1  Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga           Result           <49.9	nics (DRO) Qualifier U U	(GC)  RL 49.9  49.9  49.9  Limits	unit mg/Kg mg/Kg	<u>D</u>	02/28/23 16:21 02/28/23 16:21 02/28/23 16:21 Prepared	03/01/23 16:06  Analyzed 03/01/23 15:17 03/01/23 15:17 03/01/23 15:17  Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	sel Range Orga           Result         <49.9	U  Qualifier  U  Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	02/28/23 16:21 02/28/23 16:21 02/28/23 16:21  Prepared 02/28/23 16:21	03/01/23 16:06  Analyzed 03/01/23 15:17  03/01/23 15:17  Analyzed 03/01/23 15:17	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga           Result         <49.9	U  Qualifier  U  Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	02/28/23 16:21 02/28/23 16:21 02/28/23 16:21  Prepared 02/28/23 16:21	03/01/23 16:06  Analyzed 03/01/23 15:17  03/01/23 15:17  Analyzed 03/01/23 15:17	1 Dil Fac 1 1 1 1 Dil Fac 1 1

**Client Sample ID: PH08D** 

Date Collected: 02/24/23 09:30

Date Received: 02/24/23 12:40

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/08/23 09:47	03/08/23 15:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/08/23 09:47	03/08/23 15:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/08/23 09:47	03/08/23 15:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/08/23 09:47	03/08/23 15:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/08/23 09:47	03/08/23 15:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/08/23 09:47	03/08/23 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/08/23 09:47	03/08/23 15:01	1

**Eurofins Carlsbad** 

Lab Sample ID: 890-4195-2

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**Matrix: Solid** 

Lab Sample ID: 890-4195-2

Job ID: 890-4195-1

Client: Ensolum Project/Site: Jalmat 188 SDG: 03D2057055

**Client Sample ID: PH08D** 

Date Collected: 02/24/23 09:30 Date Received: 02/24/23 12:40

Sample Depth: 4

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104	70 - 130	03/08/23 09:47	03/08/23 15:01	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/09/23 14:36	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/02/23 09:50	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		02/28/23 16:21	03/01/23 16:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/28/23 16:21	03/01/23 16:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/28/23 16:21	03/01/23 16:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	02/28/23 16:21	03/01/23 16:01	1
o-Terphenyl	104	70 - 130	02/28/23 16:21	03/01/23 16:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	4810	5	50.0	mg/Kg			03/02/23 05:24	10	

Lab Sample ID: 890-4195-3 Client Sample ID: PH09A

Date Collected: 02/24/23 10:00 Date Received: 02/24/23 12:40

Sample Depth: 1

Markland, CIMO 40 00	21B - Volatile Organic	O = (OO)
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

motriou: Otto-to coz 12 Tolutilo	Organio Comp	ourius (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/08/23 09:47	03/08/23 15:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/08/23 09:47	03/08/23 15:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/08/23 09:47	03/08/23 15:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/08/23 09:47	03/08/23 15:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/08/23 09:47	03/08/23 15:22	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/08/23 09:47	03/08/23 15:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/08/23 09:47	03/08/23 15:22	1
1,4-Difluorobenzene (Surr)	80		70 - 130			03/08/23 09:47	03/08/23 15:22	1

Method: TAI	SOP Total BTFX	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00404	U	0.00404	mg/Kg			03/09/23 14:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (G
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/02/23 09:50	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Lab Sample ID: 890-4195-3

# **Client Sample Results**

Client: Ensolum Job ID: 890-4195-1 Project/Site: Jalmat 188 SDG: 03D2057055

Client Sample ID: PH09A

Date Collected: 02/24/23 10:00 Date Received: 02/24/23 12:40

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/28/23 16:21	03/01/23 16:22	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/28/23 16:21	03/01/23 16:22	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/28/23 16:21	03/01/23 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			02/28/23 16:21	03/01/23 16:22	1
o-Terphenyl	110		70 - 130			02/28/23 16:21	03/01/23 16:22	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH09D Lab Sample ID: 890-4195-4 Matrix: Solid

Date Collected: 02/24/23 10:15

Date Received: 02/24/23 12:40

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 15:43	1
Toluene	0.00209		0.00199	mg/Kg		03/08/23 09:47	03/08/23 15:43	1
Ethylbenzene	0.00722		0.00199	mg/Kg		03/08/23 09:47	03/08/23 15:43	1
m-Xylene & p-Xylene	0.0319		0.00398	mg/Kg		03/08/23 09:47	03/08/23 15:43	1
o-Xylene	0.0146		0.00199	mg/Kg		03/08/23 09:47	03/08/23 15:43	1
Xylenes, Total	0.0465		0.00398	mg/Kg		03/08/23 09:47	03/08/23 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/08/23 09:47	03/08/23 15:43	1
1,4-Difluorobenzene (Surr)	83		70 - 130			03/08/23 09:47	03/08/23 15:43	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0558		0.00398	mg/Kg			03/09/23 14:36	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) ((	CC)					
			30)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result 572	, , ,	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/02/23 09:50	Dil Fac
	572	Qualifier			<u>D</u>	Prepared		
Total TPH	572 sel Range Orga	Qualifier			<u>D</u>	Prepared Prepared		
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	572 sel Range Orga	Qualifier nics (DRO)	RL 50.0	mg/Kg			03/02/23 09:50	1
Total TPH  Method: SW846 8015B NM - Dies	572 sel Range Orga Result	Qualifier nics (DRO)	RL	mg/Kg		Prepared	03/02/23 09:50  Analyzed	1 Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result 54.2	Qualifier  nics (DRO) Qualifier	RL 50.0 (GC) RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 02/28/23 16:21	03/02/23 09:50  Analyzed  03/01/23 16:43	Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result 54.2	Qualifier  nics (DRO) Qualifier	RL 50.0 (GC) RL 50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/28/23 16:21 02/28/23 16:21	03/02/23 09:50  Analyzed 03/01/23 16:43 03/01/23 16:43	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	572  sel Range Orga Result 54.2 518 <50.0	Qualifier  nics (DRO) Qualifier	RL 50.0 (GC) RL 50.0 50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/28/23 16:21 02/28/23 16:21 02/28/23 16:21	03/02/23 09:50  Analyzed 03/01/23 16:43 03/01/23 16:43	1 Dil Fac 1 1

Job ID: 890-4195-1

Matrix: Solid

Lab Sample ID: 890-4195-4

Client: Ensolum Project/Site: Jalmat 188 SDG: 03D2057055

**Client Sample ID: PH09D** 

Date Collected: 02/24/23 10:15 Date Received: 02/24/23 12:40

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble	9					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18400		248	mg/Kg			03/02/23 05:36	50

Client Sample ID: PH10A Lab Sample ID: 890-4195-5 Matrix: Solid

Date Collected: 02/24/23 10:30 Date Received: 02/24/23 12:40

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 17:49	
Toluene	< 0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 17:49	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 17:49	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/08/23 09:47	03/08/23 17:49	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 17:49	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/08/23 09:47	03/08/23 17:49	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	47	S1-	70 - 130			03/08/23 09:47	03/08/23 17:49	
1,4-Difluorobenzene (Surr)	101		70 - 130			03/08/23 09:47	03/08/23 17:49	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/09/23 14:36	
Method: SW846 8015 NM - Diese	ol Pango Organ	ice (DPO) (	ec)					
Metrica. Stroto do 13 Min - Diese								
Analyte	•	, , ,	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/02/23 09:50	
Total TPH		Qualifier U	RL 50.0		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	RL 50.0	mg/Kg			03/02/23 09:50	
Total TPH  Method: SW846 8015B NM - Dies  Analyte	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL	mg/Kg	<u>D</u>	Prepared	03/02/23 09:50  Analyzed	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies  Analyte  Gasoline Range Organics	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			03/02/23 09:50	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics (GRO)-C6-C10	Result sel Range Orga Result <50.0	Qualifier U  unics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 02/28/23 16:21	03/02/23 09:50  Analyzed  03/01/23 17:06	Dil Fa
Total TPH	Result <50.0 sel Range Orga	Qualifier U  unics (DRO) Qualifier U	RL	mg/Kg		Prepared	03/02/23 09:50  Analyzed	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result sel Range Orga Result <50.0	Qualifier U  unics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 02/28/23 16:21	03/02/23 09:50  Analyzed  03/01/23 17:06	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U  unics (DRO) Qualifier U  U	RL 50.0  (GC)  RL 50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/28/23 16:21 02/28/23 16:21	03/02/23 09:50  Analyzed 03/01/23 17:06 03/01/23 17:06	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  unics (DRO) Qualifier U  U	RL 50.0  (GC)  RL 50.0  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/28/23 16:21 02/28/23 16:21 02/28/23 16:21	03/02/23 09:50  Analyzed 03/01/23 17:06 03/01/23 17:06	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  unics (DRO) Qualifier U  U	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/28/23 16:21 02/28/23 16:21 02/28/23 16:21 Prepared	03/02/23 09:50  Analyzed 03/01/23 17:06 03/01/23 17:06 03/01/23 17:06  Analyzed	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U unics (DRO) Qualifier U U U Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/28/23 16:21 02/28/23 16:21 02/28/23 16:21  Prepared 02/28/23 16:21	03/02/23 09:50  Analyzed 03/01/23 17:06 03/01/23 17:06  Analyzed 03/01/23 17:06	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U unics (DRO) Qualifier U U U Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 02/28/23 16:21 02/28/23 16:21 02/28/23 16:21  Prepared 02/28/23 16:21	03/02/23 09:50  Analyzed 03/01/23 17:06 03/01/23 17:06  Analyzed 03/01/23 17:06	Dil Fac

Lab Sample ID: 890-4195-6

# **Client Sample Results**

 Client: Ensolum
 Job ID: 890-4195-1

 Project/Site: Jalmat 188
 SDG: 03D2057055

Client Sample ID: PH10D

Date Collected: 02/24/23 10:50 Date Received: 02/24/23 12:40

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 18:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 18:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 18:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/08/23 09:47	03/08/23 18:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 18:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/08/23 09:47	03/08/23 18:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/08/23 09:47	03/08/23 18:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/08/23 09:47	03/08/23 18:10	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			03/09/23 14:36	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/02/23 09:50	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		02/28/23 16:21	03/01/23 17:27	
								1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/28/23 16:21	03/01/23 17:27	
C10-C28)								1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9		49.9 49.9	mg/Kg mg/Kg		02/28/23 16:21 02/28/23 16:21	03/01/23 17:27 03/01/23 17:27	1
C10-C28) OII Range Organics (Over C28-C36)		U						1
C10-C28)	<49.9	U	49.9			02/28/23 16:21	03/01/23 17:27	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<49.9 <b>%Recovery</b>	U	49.9			02/28/23 16:21  Prepared	03/01/23 17:27  Analyzed	1 Dil Fac
C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<49.9  **Recovery  102  100  Chromatograp	Qualifier	49.9  Limits  70 - 130  70 - 130			02/28/23 16:21  Prepared 02/28/23 16:21	03/01/23 17:27  Analyzed  03/01/23 17:27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<49.9  **Recovery  102  100  Chromatograp	U Qualifier	49.9  Limits  70 - 130  70 - 130		<u>D</u>	02/28/23 16:21  Prepared 02/28/23 16:21	03/01/23 17:27  Analyzed  03/01/23 17:27	1 1 Dil Fac

**Client Sample ID: PH10F** 

Date Collected: 02/24/23 11:00 Date Received: 02/24/23 12:40

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 18:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 18:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 18:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/08/23 09:47	03/08/23 18:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/08/23 09:47	03/08/23 18:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/08/23 09:47	03/08/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/08/23 09:47	03/08/23 18:31	1

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Lab Sample ID: 890-4195-7

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13

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Matrix: Solid

Lab Sample ID: 890-4195-7

03/02/23 06:07

# **Client Sample Results**

 Client: Ensolum
 Job ID: 890-4195-1

 Project/Site: Jalmat 188
 SDG: 03D2057055

**Client Sample ID: PH10F** 

Date Collected: 02/24/23 11:00 Date Received: 02/24/23 12:40

Sample Depth: 6

Chloride

urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Difluorobenzene (Surr)	78		70 - 130			03/08/23 09:47	03/08/23 18:31	1
lethod: TAL SOP Total BTEX -	Total BTEX Cald	culation						
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00398	U	0.00398	mg/Kg			03/09/23 14:36	1
lethod: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (	GC)					
nalyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<49.9	U	49.9	mg/Kg			03/02/23 09:50	1
nalyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
lethod: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)					
asoline Range Organics	<49.9	U	49.9	mg/Kg		02/28/23 16:21	03/01/23 17:48	1
GRO)-C6-C10 iesel Range Organics (Over	<49.9	11	49.9	mg/Kg		02/28/23 16:21	03/01/23 17:48	1
10-C28)	<b>\43.3</b>	U	45.5	mg/Kg		02/20/23 10.21	03/01/23 17.40	
II Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/28/23 16:21	03/01/23 17:48	1
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Chlorooctane	100		70 - 130			02/28/23 16:21	03/01/23 17:48	1
-Terphenyl	98		70 - 130			02/28/23 16:21	03/01/23 17:48	1

24.9

mg/Kg

4180

# **Surrogate Summary**

 Client: Ensolum
 Job ID: 890-4195-1

 Project/Site: Jalmat 188
 SDG: 03D2057055

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25192-A-7-C MS	Matrix Spike	46 S1-	87	
880-25192-A-7-D MSD	Matrix Spike Duplicate	42 S1-	75	
890-4195-1	PH08A	60 S1-	63 S1-	
890-4195-2	PH08D	111	104	
890-4195-3	PH09A	104	80	
890-4195-4	PH09D	100	83	
890-4195-5	PH10A	47 S1-	101	
890-4195-6	PH10D	107	95	
890-4195-7	PH10F	107	78	
LCS 880-48104/1-A	Lab Control Sample	93	94	
LCSD 880-48104/2-A	Lab Control Sample Dup	95	91	
MB 880-48104/5-A	Method Blank	87	90	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25235-A-61-H MS	Matrix Spike	135 S1+	117	
880-25235-A-61-I MSD	Matrix Spike Duplicate	126	110	
890-4195-1	PH08A	123	118	
890-4195-2	PH08D	107	104	
890-4195-3	PH09A	114	110	
890-4195-4	PH09D	108	103	
890-4195-5	PH10A	107	105	
890-4195-6	PH10D	102	100	
890-4195-7	PH10F	100	98	
LCS 880-47472/2-A	Lab Control Sample	112	102	
LCSD 880-47472/3-A	Lab Control Sample Dup	123	113	
MB 880-47472/1-A	Method Blank	131 S1+	127	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

# **QC Sample Results**

Client: Ensolum Job ID: 890-4195-1 SDG: 03D2057055 Project/Site: Jalmat 188

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48104/5-A

**Matrix: Solid** Analysis Batch: 48098 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48104

	MB	МВ
_		_

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
i	Benzene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 12:14	1
	Toluene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 12:14	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 12:14	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/08/23 09:47	03/08/23 12:14	1
١,	o-Xylene	<0.00200	U	0.00200	mg/Kg		03/08/23 09:47	03/08/23 12:14	1
	Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/08/23 09:47	03/08/23 12:14	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87	70 - 130	03/08/23 09:47	03/08/23 12:14	1
1,4-Difluorobenzene (Surr)	90	70 - 130	03/08/23 09:47	03/08/23 12:14	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48104

Lab Sample ID: LCS 880-48104/1-A Matrix: Solid

Analysis Batch: 48098

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09481		mg/Kg		95	70 - 130
Toluene	0.100	0.09602		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09528		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1960		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09761		mg/Kg		98	70 - 130
- 1 <b>3</b> - 1 <b>3</b> - 1 <b>3</b> - 1							

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-48104/2-A

**Matrix: Solid** 

Analysis Batch: 48098

Prep Type: Total/NA

Prep Batch: 48104

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09710		mg/Kg		97	70 - 130	2	35
Toluene	0.100	0.09753		mg/Kg		98	70 - 130	2	35
Ethylbenzene	0.100	0.09558		mg/Kg		96	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1947		mg/Kg		97	70 - 130	1	35
o-Xylene	0.100	0.09685		mg/Kg		97	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: 880-25192-A-7-C MS

**Matrix: Solid** 

Analysis Batch: 48098

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

Prep Batch: 48104

		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00201	U F2 F1	0.100	0.07627		mg/Kg		75	70 - 130	
l	Toluene	<0.00201	U F2 F1	0.100	0.07278		mg/Kg		72	70 - 130	

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Page 13 of 28

# QC Sample Results

Client: Ensolum Job ID: 890-4195-1 Project/Site: Jalmat 188 SDG: 03D2057055

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

Lab Sample ID: 880-25192-A-7-C MS

Lab Sample ID: 880-25192-A-7-D MSD

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 48098

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48104

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.100 Ethylbenzene <0.00201 UF1 0.05618 F1 56 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 UF1 0.200 0.09163 F1 mg/Kg 46 70 - 130 0.100 o-Xylene <0.00201 U F2 F1 0.04968 F1 49 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	46	S1-	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48104

RPD

Analysis Batch: 48098 Sample Sample Spike MSD MSD Result Qualifier RPD Limit Analyte babbA Result Qualifier Unit %Rec Limits 0.0996 Benzene <0.00201 U F2 F1 0.04566 F2 F1 mg/Kg 45 70 - 130 50 35 Toluene <0.00201 U F2 F1 0.0996 0.04942 F2 F1 mg/Kg 49 70 - 130 38 35 Ethylbenzene <0.00201 UF1 0.0996 0.04194 F1 42 70 - 130 29 35 mg/Kg 0.199 70 - 130 m-Xylene & p-Xylene <0.00402 UF1 0.06707 F1 mq/Kq 34 31 35 0.0996 <0.00201 U F2 F1 0.03337 F2 F1 33 70 - 130 39 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	42	S1-	70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

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

Lab Sample ID: MB 880-47472/1-A

**Matrix: Solid** 

Analysis Batch: 47505

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

Prep Batch: 47472

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/28/23 16:21	03/01/23 08:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/28/23 16:21	03/01/23 08:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/28/23 16:21	03/01/23 08:46	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	02/28/23 16:21	03/01/23 08:46	1
o-Terphenyl	127		70 - 130	02/28/23 16:21	03/01/23 08:46	1

Lab Sample ID: LCS 880-47472/2-A

**Matrix: Solid** 

Analysis Batch: 47505

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 47472

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	842.5		mg/Kg		84	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	983.6		mg/Kg		98	70 - 130
C10-C28)							

Job ID: 890-4195-1 Client: Ensolum Project/Site: Jalmat 188 SDG: 03D2057055

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

LCS LCS

Lab Sample ID: LCS 880-47472/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

Analysis Batch: 47505

Prep Type: Total/NA

Prep Batch: 47472

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 112 70 - 130 o-Terphenyl 102 70 - 130

Lab Sample ID: LCSD 880-47472/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 47505

Prep Type: Total/NA

70 - 130

110

Prep Batch: 47472

11

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 915.9 92 70 - 1308 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1096

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 880-25235-A-61-H MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 47505

Prep Type: Total/NA Prep Batch: 47472

Sample Sample Spike MS MS Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 999 1132 mg/Kg 110 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 879.8 mg/Kg 86 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits S1+ 70 - 130 1-Chlorooctane 135 o-Terphenyl 117 70 - 130

Lab Sample ID: 880-25235-A-61-I MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 47505

Prep Type: Total/NA

Prep Batch: 47472

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics U 999 1062 103 <49.9 mg/Kg 70 - 130 6 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 826.9 mg/Kg 81 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	110		70 - 130

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: PH08A

Client Sample ID: PH08A

**Prep Type: Soluble** 

**Prep Type: Soluble** 

# QC Sample Results

Client: Ensolum Job ID: 890-4195-1 Project/Site: Jalmat 188 SDG: 03D2057055

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47514/1-A

**Matrix: Solid** 

Analysis Batch: 47591

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/02/23 04:47

Lab Sample ID: LCS 880-47514/2-A

**Matrix: Solid** 

Analysis Batch: 47591

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 252.3 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-47514/3-A

**Matrix: Solid** 

Analysis Batch: 47591

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 250.4 mg/Kg 100 90 - 110

Lab Sample ID: 890-4195-1 MS

**Matrix: Solid** 

Analysis Batch: 47591

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 940.8 F1 Chloride 600 F1 253 135 90 - 110 mg/Kg

Lab Sample ID: 890-4195-1 MSD

**Matrix: Solid** 

Analysis Batch: 47591

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 600 F1 253 935.9 F1 mg/Kg 133 90 - 110 20

# **QC Association Summary**

 Client: Ensolum
 Job ID: 890-4195-1

 Project/Site: Jalmat 188
 SDG: 03D2057055

### **GC VOA**

### Analysis Batch: 48098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4195-1	PH08A	Total/NA	Solid	8021B	48104
890-4195-2	PH08D	Total/NA	Solid	8021B	48104
890-4195-3	PH09A	Total/NA	Solid	8021B	48104
890-4195-4	PH09D	Total/NA	Solid	8021B	48104
890-4195-5	PH10A	Total/NA	Solid	8021B	48104
890-4195-6	PH10D	Total/NA	Solid	8021B	48104
890-4195-7	PH10F	Total/NA	Solid	8021B	48104
MB 880-48104/5-A	Method Blank	Total/NA	Solid	8021B	48104
LCS 880-48104/1-A	Lab Control Sample	Total/NA	Solid	8021B	48104
LCSD 880-48104/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48104
880-25192-A-7-C MS	Matrix Spike	Total/NA	Solid	8021B	48104
880-25192-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48104

#### Prep Batch: 48104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4195-1	PH08A	Total/NA	Solid	5035	
890-4195-2	PH08D	Total/NA	Solid	5035	
890-4195-3	PH09A	Total/NA	Solid	5035	
890-4195-4	PH09D	Total/NA	Solid	5035	
890-4195-5	PH10A	Total/NA	Solid	5035	
890-4195-6	PH10D	Total/NA	Solid	5035	
890-4195-7	PH10F	Total/NA	Solid	5035	
MB 880-48104/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48104/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48104/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25192-A-7-C MS	Matrix Spike	Total/NA	Solid	5035	
880-25192-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 48231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4195-1	PH08A	Total/NA	Solid	Total BTEX	
890-4195-2	PH08D	Total/NA	Solid	Total BTEX	
890-4195-3	PH09A	Total/NA	Solid	Total BTEX	
890-4195-4	PH09D	Total/NA	Solid	Total BTEX	
890-4195-5	PH10A	Total/NA	Solid	Total BTEX	
890-4195-6	PH10D	Total/NA	Solid	Total BTEX	
890-4195-7	PH10F	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

### Prep Batch: 47472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4195-1	PH08A	Total/NA	Solid	8015NM Prep	
890-4195-2	PH08D	Total/NA	Solid	8015NM Prep	
890-4195-3	PH09A	Total/NA	Solid	8015NM Prep	
890-4195-4	PH09D	Total/NA	Solid	8015NM Prep	
890-4195-5	PH10A	Total/NA	Solid	8015NM Prep	
890-4195-6	PH10D	Total/NA	Solid	8015NM Prep	
890-4195-7	PH10F	Total/NA	Solid	8015NM Prep	
MB 880-47472/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47472/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

# **QC Association Summary**

 Client: Ensolum
 Job ID: 890-4195-1

 Project/Site: Jalmat 188
 SDG: 03D2057055

# GC Semi VOA (Continued)

### Prep Batch: 47472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-47472/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25235-A-61-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25235-A-61-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 47505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4195-1	PH08A	Total/NA	Solid	8015B NM	47472
890-4195-2	PH08D	Total/NA	Solid	8015B NM	47472
890-4195-3	PH09A	Total/NA	Solid	8015B NM	47472
890-4195-4	PH09D	Total/NA	Solid	8015B NM	47472
890-4195-5	PH10A	Total/NA	Solid	8015B NM	47472
890-4195-6	PH10D	Total/NA	Solid	8015B NM	47472
890-4195-7	PH10F	Total/NA	Solid	8015B NM	47472
MB 880-47472/1-A	Method Blank	Total/NA	Solid	8015B NM	47472
LCS 880-47472/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47472
LCSD 880-47472/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47472
880-25235-A-61-H MS	Matrix Spike	Total/NA	Solid	8015B NM	47472
880-25235-A-61-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47472

### Analysis Batch: 47573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4195-1	PH08A	Total/NA	Solid	8015 NM	
890-4195-2	PH08D	Total/NA	Solid	8015 NM	
890-4195-3	PH09A	Total/NA	Solid	8015 NM	
890-4195-4	PH09D	Total/NA	Solid	8015 NM	
890-4195-5	PH10A	Total/NA	Solid	8015 NM	
890-4195-6	PH10D	Total/NA	Solid	8015 NM	
890-4195-7	PH10F	Total/NA	Solid	8015 NM	

## HPLC/IC

### Leach Batch: 47514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4195-1	PH08A	Soluble	Solid	DI Leach	
890-4195-2	PH08D	Soluble	Solid	DI Leach	
890-4195-3	PH09A	Soluble	Solid	DI Leach	
890-4195-4	PH09D	Soluble	Solid	DI Leach	
890-4195-5	PH10A	Soluble	Solid	DI Leach	
890-4195-6	PH10D	Soluble	Solid	DI Leach	
890-4195-7	PH10F	Soluble	Solid	DI Leach	
MB 880-47514/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47514/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47514/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4195-1 MS	PH08A	Soluble	Solid	DI Leach	
890-4195-1 MSD	PH08A	Soluble	Solid	DI Leach	

#### Analysis Batch: 47591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4195-1	PH08A	Soluble	Solid	300.0	47514
890-4195-2	PH08D	Soluble	Solid	300.0	47514
890-4195-3	PH09A	Soluble	Solid	300.0	47514

**Eurofins Carlsbad** 

Page 18 of 28

# **QC Association Summary**

 Client: Ensolum
 Job ID: 890-4195-1

 Project/Site: Jalmat 188
 SDG: 03D2057055

# **HPLC/IC** (Continued)

### **Analysis Batch: 47591 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4195-4	PH09D	Soluble	Solid	300.0	47514
890-4195-5	PH10A	Soluble	Solid	300.0	47514
890-4195-6	PH10D	Soluble	Solid	300.0	47514
890-4195-7	PH10F	Soluble	Solid	300.0	47514
MB 880-47514/1-A	Method Blank	Soluble	Solid	300.0	47514
LCS 880-47514/2-A	Lab Control Sample	Soluble	Solid	300.0	47514
LCSD 880-47514/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47514
890-4195-1 MS	PH08A	Soluble	Solid	300.0	47514
890-4195-1 MSD	PH08A	Soluble	Solid	300.0	47514

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Client: Ensolum Job ID: 890-4195-1 SDG: 03D2057055 Project/Site: Jalmat 188

Client Sample ID: PH08A Lab Sample ID: 890-4195-1

Date Collected: 02/24/23 09:15 Matrix: Solid Date Received: 02/24/23 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48231	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47573	03/01/23 16:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47472	02/28/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47505	03/01/23 15:17	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47514	03/01/23 10:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47591	03/02/23 05:05	CH	EET MID

**Client Sample ID: PH08D** Lab Sample ID: 890-4195-2 Matrix: Solid

Date Collected: 02/24/23 09:30 Date Received: 02/24/23 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 15:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48231	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47573	03/02/23 09:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47472	02/28/23 16:21	AJ	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47505	03/01/23 16:01	AJ	EET MIC
Soluble	Leach	DI Leach			5 g	50 mL	47514	03/01/23 10:34	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	47591	03/02/23 05:24	CH	EET MID

Client Sample ID: PH09A Lab Sample ID: 890-4195-3 Date Collected: 02/24/23 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 15:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48231	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47573	03/02/23 09:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47472	02/28/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47505	03/01/23 16:22	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47514	03/01/23 10:34	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	47591	03/02/23 05:30	CH	EET MID

**Client Sample ID: PH09D** Lab Sample ID: 890-4195-4 Date Collected: 02/24/23 10:15 **Matrix: Solid** 

Date Received: 02/24/23 12:40

Date Received: 02/24/23 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 15:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48231	03/09/23 14:36	AJ	EET MID

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: Ensolum
Project/Site: Jalmat 188

Job ID: 890-4195-1

SDG: 03D2057055

Lab Sample ID: 890-4195-4

Matrix: Solid

Client Sample ID: PH09D Date Collected: 02/24/23 10:15

Date Received: 02/24/23 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47573	03/02/23 09:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47472	02/28/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47505	03/01/23 16:43	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47514	03/01/23 10:34	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	47591	03/02/23 05:36	CH	EET MID

Client Sample ID: PH10A

Date Collected: 02/24/23 10:30

Lab Sample ID: 890-4195-5

Matrix: Solid

Date Collected: 02/24/23 10:30 Date Received: 02/24/23 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48231	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47573	03/02/23 09:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47472	02/28/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47505	03/01/23 17:06	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47514	03/01/23 10:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47591	03/02/23 05:42	CH	EET MID

Client Sample ID: PH10D

Date Collected: 02/24/23 10:50

Lab Sample ID: 890-4195-6

Matrix: Solid

Date Received: 02/24/23 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48231	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47573	03/02/23 09:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47472	02/28/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47505	03/01/23 17:27	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47514	03/01/23 10:34	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	47591	03/02/23 06:01	CH	EET MID

Client Sample ID: PH10F Lab Sample ID: 890-4195-7

Date Collected: 02/24/23 11:00 Date Received: 02/24/23 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48231	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47573	03/02/23 09:50	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	47472 47505	02/28/23 16:21 03/01/23 17:48	AJ AJ	EET MID EET MID

**Eurofins Carlsbad** 

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890-4195-7 Matrix: Solid

### Lab Chronicle

 Client: Ensolum
 Job ID: 890-4195-1

 Project/Site: Jalmat 188
 SDG: 03D2057055

**Client Sample ID: PH10F** 

Lab Sample ID: 890-4195-7

Matrix: Solid

Date Collected: 02/24/23 11:00 Date Received: 02/24/23 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	47514	03/01/23 10:34	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	47591	03/02/23 06:07	CH	EET MID

#### Laboratory References:

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

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# **Accreditation/Certification Summary**

Client: Ensolum Job ID: 890-4195-1 Project/Site: Jalmat 188 SDG: 03D2057055

## **Laboratory: Eurofins Midland**

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	ic and laboratory to flot corum	bu by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay molude analytes to
the agency does not of	fer certification.	,	, , ,	

# **Method Summary**

Client: Ensolum Job ID: 890-4195-1 Project/Site: Jalmat 188

SDG: 03D2057055

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	EPA	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

EPA = US Environmental Protection Agency

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

**Eurofins Carlsbad** 

Released to Imaging: 9/12/2024 1:52:49 PM

# **Sample Summary**

Client: Ensolum

Project/Site: Jalmat 188

Job ID: 890-4195-1

SDG: 03D2057055

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4195-1	PH08A	Solid	02/24/23 09:15	02/24/23 12:40	1
890-4195-2	PH08D	Solid	02/24/23 09:30	02/24/23 12:40	4
890-4195-3	PH09A	Solid	02/24/23 10:00	02/24/23 12:40	1
890-4195-4	PH09D	Solid	02/24/23 10:15	02/24/23 12:40	4
890-4195-5	PH10A	Solid	02/24/23 10:30	02/24/23 12:40	1
890-4195-6	PH10D	Solid	02/24/23 10:50	02/24/23 12:40	4
890-4195-7	PH10F	Solid	02/24/23 11:00	02/24/23 12:40	6

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eurofins	Houston, 1	TX (281) 240-4200, Dallas, TX (214) 9	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300		
Xenco Xenco	Midland, TX	(432) 704-5440, San Ar 'Y 7045) 585-3443 Tubb	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  El Paso TX (915) 585-3443, Lubbock TX (806) 794-1296	Work Orger No:	NO:
	Hobbs, NM	(575) 392-7550, Carlst	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		
				www.xenco.com	om rage L o
Project Manager: Joe Gable	Bill to: (If different)	-Kalei demings	105h Havills	Work Orde	Work Order Comments
	Company Name:		Ι.	Program: UST/PST   PRP Brownfields   RRC	rownfields   RRC   Superfund
	Address:	601 N Marienfeld St Suite 400	St Suite 400	State of Project:	
e ZIP:	City, State ZIP:	Midland, TX 79701		Reporting: Level II  Level III  PST/UST  TRRP	PST/UST TRRP Level IV
		m.com, jgable@ensolum.com	solum.com	Deliverables: EDD . AD	ADaPT Other:
Name: DUMPAT 188	Turn Around		ANALYSIS	REQUEST	Preservative Codes
er: (%)7757055	Rush Code	• -			None: NO DI Water: H <sub>2</sub> O
Project Location: 12,34 5541, -105,3802 Due Date:					Coot: Cool MeOH: Me
Julienne Folcomata	he day received by ceived by 4:30pm				HCL: HC HNO3: HN
PLE RECEIPT Temp Blank: (\ Yes) No	Yes No eter	0)			H₃PO₄: HP
Thermometer	7	300.			NaHSO <sub>4</sub> : NABIS
Yes No	i i	EPA			Na <sub>2</sub> S <sub>2</sub> C <sub>3</sub> : Na <sub>3</sub> C <sub>3</sub>
Sample Custody Seals: Yes No \ N/A / Temperature Reading:  Total Containers:  Corrected Temperature:		5)	890-4195	Chain of Custody	NaOH+Ascorbic Acid: SAPC
dentification Matrix	Depth Grab/ # of	CHLOR TPH (80			Sample Comments
-	工 6				
5	14, 11				NAPOZO KON
10	エーー				
-	- -				
DE LOSO	1-2				
	5 4				
(	4				
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13	CRA 13PPM Texas 11 AI	Sb As Ba Be I	3 Cd Ca Cr Co Cu Fe F	Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Mo Ni Se Ag TI U Ha: 163	\g SiO <sub>2</sub> Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471
mples constitu	d purchase order from client sume any responsibility for	t company to Eurofins Xe	enco, its affiliates and subcontract incurred by the client if such loss	ictors. It assigns standard terms and conditions sses are due to circumstances beyond the control terms will be enforced unless previously negotiated.	) ) Ited
Received by: (Signature) Received by: (Signature)	ature)	Date/Time	Relinquished by: (Sign	gnature) Received by: (Signature)	nature) Date/Time
	20	34.CC CC:4C	1 3 1		
			4		
			σ		Revised Date: 08/25/2020 Rev. 2020.2

# **Login Sample Receipt Checklist**

 Client: Ensolum
 Job Number: 890-4195-1

 SDG Number: 03D2057055

Login Number: 4195 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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	

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# **Login Sample Receipt Checklist**

Client: Ensolum

Job Number: 890-4195-1 SDG Number: 03D2057055

Login Number: 4195
List Source: Eurofins Midland
List Number: 2
List Creation: 02/28/23 11:19 AM

Creator: Teel, Brianna

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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").	True	

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December 13, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JALMAT 188

Enclosed are the results of analyses for samples received by the laboratory on 12/08/23 16:06.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keene

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



#### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.395541,-103.321776

#### Sample ID: PH 01 @ 8-10' (H236592-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6900	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057055 Dionica Hinojos

Project Location: MAVERICK 32.395541,-103.321776

#### Sample ID: PH 01 @ 22-24' (H236592-02)

BTEX 8021B	mg	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH/

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

#### Sample ID: PH 02 @ 10-12' (H236592-03)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: 1H /

Project Location: MAVERICK 32.395541,-103.321776

#### Sample ID: PH 02 @ 22-24' (H236592-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH/

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

#### Sample ID: PH 03 @ 12-14' (H236592-05)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Project Location: MAVERICK 32.395541,-103.321776

#### Sample ID: PH 03 @ 26-28' (H236592-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH/

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: PH 03 @ 44-46' (H236592-07)

BTEX 8021B

	9/	9	7	1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: 1H /

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: PH 09 @ 8-10' (H236592-08)

RTFY 8021R

B1EX 8021B	mg,	кg	Апануге	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	66.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: 1H /

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: PH 09 @ 24-26' (H236592-09)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

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Celey D. Keine

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/07/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH/

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: PH 09 @ 38-40' (H236592-10)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH/

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: BH 01 @ 2-4' (H236592-11)

BTEX 8021B

DIEX GOZID	11197	- Kg	Alldiyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH/

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: BH 01 @ 14-16' (H236592-12)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH/

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: BH 01 @ 28-30' (H236592-13)

BTEX 8021B

	9,	9	7	1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.1	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH/

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: BH 02 @ 0-2' (H236592-14)

BTEX 8021B

DIEX GOZID	ıııg,	- Kg	Alldiyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/11/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: BH 02 @ 11-16' (H236592-15)

BTEX 8021B

DILX GOZID	11197	- Kg	Alldiyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	84.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: BH 02 @ 28-30' (H236592-16)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.7	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: BH 03 @ 0-2' (H236592-17)

BTEX 8021B

DIEX GOZID	11197	, kg	Alldiyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: BH 03 @ 11-16' (H236592-18)

RTFY 8021R

Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD	BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 12/11/2023 ND 2.18 109 2.00 12.3  Total Xylenes* <0.150 0.150 12/11/2023 ND 6.46 108 6.00 12.5  Total BTEX <0.300 0.300 12/11/2023 ND 6.46 108 6.00 12.5  Surrogate: 4-Bromofluorobenzene (PID 113 % 71.5-134  Chloride, SM4500Cl-B mg/ky Analyzed By: AC  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 80.0 16.0 12/11/2023 ND 416 104 400 3.77  TH 8015M mg/ky Analyzed By: MS  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 12/11/2023 ND 202 101 200 1.43  DRO >C10-C28* <10.0 10.0 12/11/2023 ND 209 104 200 0.577  EXT DRO >C28-C36 <10.0 10.0 12/11/2023 ND 209 104 200 0.577  EXT DRO >C28-C36 <10.0 10.0 12/11/2023 ND 209 104 200 0.577	Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Total Xylenes*         <0.150         0.150         12/11/2023         ND         6.46         108         6.00         12.5           Total BTEX         <0.300	Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Total BTEX         <0.300         0.300         12/11/2023         ND           Surrogate: 4-Bromofluorobenzene (PID         113 %         71.5-134           Chloride, SM4500Cl-B         mg/ky         Analyzed By: AC           Analyte         Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD           Chloride         80.0         16.0         12/11/2023 ND 416 104 400 3.77           TPH 8015M         mg/ky         Analyzed By: MS           Analyte         Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD           GRO C6-C10*         <10.0	Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
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           Chloride         80.0 16.0 12/11/2023 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           GRO C6-C10*         <10.0 10.0 12/11/2023 ND 202 101 200 1.43	Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD           Chloride         80.0 16.0 12/11/2023 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           GRO C6-C10*         <10.0 10.0 12/11/2023 ND 202 101 200 1.43	Total BTEX	<0.300	0.300	12/11/2023	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 80.0 16.0 12/11/2023 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  GRO C6-C10* <10.0 10.0 12/11/2023 ND 202 101 200 1.43  DRO >C10-C28* <10.0 10.0 12/11/2023 ND 209 104 200 0.577  EXT DRO >C28-C36 <10.0 10.0 12/11/2023 ND  Surrogate: 1-Chlorooctane 76.1 % 48.2-134	Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride         80.0         16.0         12/11/2023         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           GRO C6-C10*         <10.0	Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
TPH 8015M         mg/kg         Analyzed By: MS           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10* <10.0 10.0 12/11/2023 ND 202 101 200 1.43  DRO >C10-C28* <10.0 10.0 12/11/2023 ND 209 104 200 0.577  EXT DRO >C28-C36 <10.0 10.0 12/11/2023 ND  Surrogate: 1-Chlorooctane 76.1 % 48.2-134	Chloride	80.0	16.0	12/11/2023	ND	416	104	400	3.77	
GRO C6-C10* <10.0 10.0 12/11/2023 ND 202 101 200 1.43  DRO >C10-C28* <10.0 10.0 12/11/2023 ND 209 104 200 0.577  EXT DRO >C28-C36 <10.0 10.0 12/11/2023 ND  Surrogate: 1-Chlorooctane 76.1 % 48.2-134	TPH 8015M	mg	/kg	Analyze	ed By: MS					
DRO >C10-C28* < 10.0 10.0 12/11/2023 ND 209 104 200 0.577  EXT DRO >C28-C36 <10.0 10.0 12/11/2023 ND  Surrogate: 1-Chlorooctane 76.1 % 48.2-134	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 12/11/2023 ND  Surrogate: 1-Chlorooctane 76.1 % 48.2-134	GRO C6-C10*	<10.0	10.0	12/11/2023	ND	202	101	200	1.43	
Surrogate: 1-Chlorooctane 76.1 % 48.2-134	DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
	EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctadecane 85.6% 49.1-148	Surrogate: 1-Chlorooctane	76.1	% 48.2-13	4						
	Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: BH 03 @ 28-30' (H236592-19)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: PH 07 @ 11-16' (H236592-20)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: PH 07 @ 26-30' (H236592-21)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057055 Dionica Hinojos

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: PH 06 @ 11-16' (H236592-22)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celey D. Keene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 12/08/2023 Sampling Date: 12/08/2023

Reported: 12/13/2023 Sampling Type: Soil

Project Name: JALMAT 188 Sampling Condition: Cool & Intact
Project Number: 03D2057055 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: PH 06 @ 26-30' (H236592-23)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.19	110	2.00	7.15	
Toluene*	<0.050	0.050	12/11/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.46	108	6.00	12.5	
Total BTEX	<0.300	0.300	12/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	190	94.9	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	184	92.0	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF CUSTODY AND ANALYSIS REQUEST

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

	210) 220-2220 1 200 (210) 200 =	110					
Company Name:	Ensolum LLC		BILL TO			ANALYSIS REQUEST	
Project Manager:	Alree Cole		P.O. #:				
Address: 3/22	National		Company:				
city: ( w/15bad		Zip: \$8220	Attn:				
e#. \	20-384-7365 Fax#:		Address:				
. 6	7055 Project Owner:	- Manerick	City:				
3	88 trul		State: Zip:				
Project Location:	(4)	321776	#:				
Sampler Name:	Ron Houses		Fax #:				
FOR LAB USE ONLY	<	MATRIX	PRESERV. SAMI	SAMPLING			
COSTERT.		RS	_				
Lab I.D.	Sample I.D.	AB OR INTAINE UNDWA ITEWAT	/BASE:	37.1	PH CI-		
		# CO GRO WA SOI OIL	- min	-			L
_	PL/01/09 8-10	ග - ×	X [L]7/23	1604 X	X		
ىو	, H2-22 \$1946			1632	-		
(3)	PH02@10-12			1056			
h	PHOZ @ 22.24			1132			
2/	P463 @ 12.14'	4	1	1336			
6	pH03 @ Zu-76			1404			
2	SHOZ @44-416			1427			
SC SC	8-10 m			HXCH			
3-	90-17-19-09 10H	<	4	1424	4		
PLEASE NOTE: Liability and Da analyses. All claims including th	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or lort, 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	ny claim arising whether based in contrac deemed waived unless made in writing ar	d or tort, shall be limited to the amount paid received by Cardinal within 30 days after	d by the client for the applicable of the applic	•		
Relinquished By:	ors arising out of or related to the performance of services hereunder L. Pardinal, regardless of whether such claim is based upon any of the above stated real By:  Received By:	Received By:	his based upon any of the above stated re	T.	□ Yes □ No	Add'l Phone #:	
El Ren	M Time: 6:010	-		aco co	CASOLUM COM	THE CANAL POOR	
Relinquished By:	Date:	Received By		REMARKS:			
	Time:						
Delivered By: (Circle One)	e One) Observed Temp. °C 7.8%		ion CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
Sampler - UPS - Bus - Other:		A) W Yes Yes	D	Thermometer ID #140 Correction Factor 0°C	c 6	☐ Yes ☐ Yes ☐ No ☐ Corrected Temp. °C	

Sampler - UPS - Bus - Other:

Corrected Temp. °C

# CHAIN-OF CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

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Company Name: Ensour		BILL 10			ANALIGIO NEGOCIO
Project Manager: And G	4	P.O. #:			
Address: 3/22 Nasonal	C,	Company:			
Carlshad	State: NM Zip: 88270	Attn:			
le #:	S Fax#:	Address:			
Project #: 6302057053	Project Owner: Mangelich	City:			
me:		State: Zip:			
Project Location: 32.39591	1 -63, 321776	Phone #:		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Sampler Name: Son Haut	338	Fax #:			
T. William	MATRIX	PRESERV. SAMPLING	ING		
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	# CO GRO WAS SOIL	ICE /	TIME		
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201036	28-30	6	1056	4	
PLEASE NOTE: Liability and Damages. Cardinal's liability and analyses. All claims including those for negligence and any other than the control of the contr	PLEASE NOTE: Liability and Damages. Cardina'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	tract or tort, shall be limited to the amount paid b g and received by Cardinal within 30 days after o	y the client for the ompletion of the applicable		
service. In no event shall Cardinal be liable for incidental or consequental damages, includes affiliates or successors arising out of or related to the performance of services hereunder L.	sonice. In no event static detirnat be labble for incorperate of consequents of unique the above stated reasons or otherwise.  affiliates or successors arising out of or related to the performance of services hereunder r. C. ordinate, legandees of whether such datam is based upon any of the above stated reasons or otherwise.	Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise		1	
Relinquished By:	Date: Received By:	A	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:	led. Please provid	Add'l Phone #: de Email address:
JAM!	O DO MORE BOOK	1	aco	e cos enso	ensdun com
Relinquished By:	Date: Received By:		REMARKS:	(	
	Time:	*		1/1	
Politicand Brit (Cirolo Ono)	Observed Tomp of Cold Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only) Sample Condition

Thermometer ID #140 Correction Factor 0°C

Rush

Observed Temp. °C Corrected Temp. °C

Cool Intact

Yes Yes

No No

### 101 East Marland, Hobbs, NM 88240

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(575) 393-2326 FAX (575) 393-2476		ANALYSIS REQUEST	
ompany Name: Fassing LC	BILL TO	ANALISIS	
1	P.O. #:		
Arress. 3122 Material Parks	Huny Company:		
State: NIM	Zip: 88720 Attn:		
470 384 7 365 Fax#:			
12 17 C7	Manerich City:		
188 mat 88		9.	
1-11455	03.321776 Phone #:		
Roam Huse	Fax #:		
a laterday	MATRIX PRESERV.	SAMPLING	
FOR LAB USE ONLY	R		
Lab I.D. Sample I.D.	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	
31 PHOTO 26-30' 2HDG (31-16')	- ×	7 13 23 X X X X	
	5		
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Relinquished By:	Received By:  All Results	Verbal Result: ☐ Yes ☐ No Add'I Phone #:  All Results are emailed. Please provide Email address:	
Relinquished By:	Received By:	REMARKS:	
Time:		Turnaround Time: Standard	Condition
Delivered By: (Circle One) Observed Temp. % (Circle One)		Thermometer ID #140	Observed Temp. °C
Sampler - UPS - Bus - Other: Corrected Temp. °C	THE SE I SE I COUNTY		Corrected Tellip. C



August 20, 2024

AIMEE COLE

**ENSOLUM** 

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JALMAT YATES UNIT #188

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 15:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keene

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



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: SW 03 0-4 (H244975-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	230	115	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	223	111	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					
Surrogate: 1-Chlorooctane	74.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: SW 04 0-4 (H244975-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	213	106	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	194	97.0	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: SW 09 0-4 (H244975-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	213	106	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	194	97.0	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	80.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.1	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: SW 07 0-4 (H244975-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	213	106	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	194	97.0	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	85.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: SW 05 0-4 (H244975-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	213	106	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	194	97.0	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 40 4 (H244975-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	213	106	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	194	97.0	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.6	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: FS 41 4 (H244975-07)

BTEX 8021B

DIEX GOZID	11197	, kg	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	213	106	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	194	97.0	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 25 4.5 (H244975-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	08/16/2024	ND	432	108	400	7.69	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	213	106	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	194	97.0	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	75.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.4	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/15/2024

Reported: 08/20/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 39 4.5 (H244975-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	213	106	200	1.31	
DRO >C10-C28*	22.9	10.0	08/19/2024	ND	194	97.0	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					
Surrogate: 1-Chlorooctane	73.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.1	% 49.1-14	8						

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Celey D. Keene



### **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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Celeg D. Freene

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

Observed Temp. °C

Sample Condition
Cool Intact
Lilyes Liyes
No No

CHECKED BY: (Initials)

Thermometer ID #173

Standard

#173

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Observed Temp. °C Corrected Temp. °C

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Mamo:						
Company Name: Ensolum, LLC	Ensolum, LLC			01 THIS	ANALYSIS REQUEST	
Project Manager: Aimee Cole	Aimee Cole			P.O. #:	- 1	_
Address: 3122 National Parks Hwy	tional Parks Hwy			Company: Ensolum, LCC	UTC	
City: Carlsbad		State: NM	Zip: 88220	Attn: A, Mas Colo		
Phone #: (720) 384-7365	1-7365	Fax #:		Address:		
Project #: 03 E 2057055	2057055	Project Owner:	7	City:		
Project Name:	alMat Yates	881 tivn		State: Zip:		
Project Location: 32, 395541	32.395541	,-103.3217	776	#		-
Sampler Name: /	Mario Sarkis	R		Tav #.		-
٦.	5	7117		1		-
FOR LAB USE ONLY			P. MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	Depth (feet)	AB OR (C)OMF NTAINERS JINDWATER EWATER	BASE:	TEX	
SLONTEN	2002	3	GRO	OTHE ACID/ ICE / O OTHE	B	
2	Swoy	0-4	7	/ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	7/24/ 11 dr. / / / / / / / / / / / / / / / / / / /	
S	Swog	n-0	0 1 0		1351	
N	SWOZ	0-4	1 1 1	. ~	100000000000000000000000000000000000000	
V.	SWOS	1-0	7	_<	257 / / /	
16	6040	4	7	<	1320 / / /	
2	INST	2	\ 	. <	1383 / 1 / 1 8881	
27	000	4.5			1356 / / /	
	-339	7,0		<	1426 1 1	
PLEASE NOTE: Liability and Dan analyses. All claims including thos arrivice. In no event shall Cardinal affiliates or successors arising out	nages. Cardinal's liability and clie se for negligence and any other c be liable for incidental or consect of or related to the performance	nt's exclusive remedy for any ause whatsoever shall be de uental damages, including w of services hereunder by Car	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 negligance 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 hereunded by Cardinal expanding the parties of whether such claim is bead upon any of profits.	r tort, shall be limited to the amount paid beceived by Cardinal within 30 days after or so of use, or loss of profits incurred by client becard impropriet the above the profits of the profits incurred by clients.	y the client for the organization of the applicable nt. its subsidiaries,	
Relinquished By:	1	Bate: 5/84	Received By:	9	Verbal Results: ☐ Yes ☐ No Add'I Phone #:	
Relinquished By:		Date:	appu e		acoke lensolumicon/MSarkis e ensolumicom	
			Tocolyon Dy.		REMARKS:	
		-				-



August 16, 2024

AIMEE COLE

**ENSOLUM** 

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JALMAT YATES UNIT #188

Enclosed are the results of analyses for samples received by the laboratory on 08/07/24 15:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



### Analytical Results For:

**ENSOLUM** 3122 NATIONAL PARKS HWY Project: JALMAT YATES UNIT #188

Reported: 16-Aug-24 16:30

CARLSBAD NM, 88220

Project Number: 03E2057055 Project Manager: AIMEE COLE

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 01 0-4	H244774-01	Soil	07-Aug-24 09:40	07-Aug-24 15:56
SW 07 0-4	H244774-02	Soil	07-Aug-24 10:00	07-Aug-24 15:56
SW 10 0-4	H244774-03	Soil	07-Aug-24 10:18	07-Aug-24 15:56
SW 12 0-4	H244774-04	Soil	07-Aug-24 10:27	07-Aug-24 15:56
FS 39 4	H244774-05	Soil	07-Aug-24 12:07	07-Aug-24 15:56
FS 09 4	H244774-06	Soil	07-Aug-24 12:11	07-Aug-24 15:56
FS 10 4	H244774-07	Soil	07-Aug-24 12:13	07-Aug-24 15:56
FS 11 4	H244774-08	Soil	07-Aug-24 12:15	07-Aug-24 15:56
FS 12 4	H244774-09	Soil	07-Aug-24 12:19	07-Aug-24 15:56
FS 13 4	H244774-10	Soil	07-Aug-24 12:22	07-Aug-24 15:56
FS 14 4	H244774-11	Soil	07-Aug-24 12:24	07-Aug-24 15:56
FS 15 4	H244774-12	Soil	07-Aug-24 12:07	07-Aug-24 15:56
FS 16 4	H244774-13	Soil	07-Aug-24 12:09	07-Aug-24 15:56
FS 17 4	H244774-14	Soil	07-Aug-24 12:11	07-Aug-24 15:56
FS 18 4	H244774-15	Soil	07-Aug-24 12:12	07-Aug-24 15:56
FS 19 4	H244774-16	Soil	07-Aug-24 12:13	07-Aug-24 15:56
FS 20 4	H244774-17	Soil	07-Aug-24 12:15	07-Aug-24 15:56
FS 21 4	H244774-18	Soil	07-Aug-24 12:16	07-Aug-24 15:56
FS 22 4	H244774-19	Soil	07-Aug-24 12:20	07-Aug-24 15:56
FS 23 4	H244774-20	Soil	07-Aug-24 12:21	07-Aug-24 15:56
FS 24 4	H244774-21	Soil	07-Aug-24 12:23	07-Aug-24 15:56
FS 25 4	H244774-22	Soil	07-Aug-24 12:27	07-Aug-24 15:56
FS 26 4	H244774-23	Soil	07-Aug-24 12:29	07-Aug-24 15:56
FS 27 4	H244774-24	Soil	07-Aug-24 12:27	07-Aug-24 15:56
FS 28 4	H244774-25	Soil	07-Aug-24 12:31	07-Aug-24 15:56
FS 29 4	H244774-26	Soil	07-Aug-24 12:32	07-Aug-24 15:56
FS 30 4	H244774-27	Soil	07-Aug-24 12:32	07-Aug-24 15:56

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220		Project: Project Number: Project Manager: Fax To:		Reported: 16-Aug-24 16:30
FS 31 4	H244774-28	Soil	07-Aug-24 12:34	07-Aug-24 15:56
FS 32 4	H244774-29	Soil	07-Aug-24 12:37	07-Aug-24 15:56
FS 33 4	H244774-30	Soil	07-Aug-24 12:34	07-Aug-24 15:56
FS 34 4	H244774-31	Soil	07-Aug-24 12:35	07-Aug-24 15:56
FS 35 4	H244774-32	Soil	07-Aug-24 12:37	07-Aug-24 15:56
FS 36 4	H244774-33	Soil	07-Aug-24 12:38	07-Aug-24 15:56
FS 37 4	H244774-34	Soil	07-Aug-24 12:39	07-Aug-24 15:56
FS 38 4	H244774-35	Soil	07-Aug-24 12:40	07-Aug-24 15:56

08/16/24 - Client changed the sample ID on -05 (see COC). This is the revised report and will replace the one sent on 08/13/24.

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### SW 01 0-4 H244774-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	4080922	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			81.3 %	48.2	-134	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			89.5 %	49.1-	-148	4080807	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# SW 07 0-4 H244774-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	5720		16.0	mg/kg	4	4080922	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			77.0 %	48.2	-134	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			86.2 %	49.1	-148	4080807	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# SW 10 0-4 H244774-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	480		16.0	mg/kg	4	4080922	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		114 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	y GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			81.0 %	48.2	-134	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			91.3 %	49.1	-148	4080807	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# SW 12 0-4 H244774-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	4080922	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	ЈН	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		112 %	71.5	-134	4080812	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			77.5 %	48.2	-134	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			85.7 %	49.1	-148	4080807	MS	08-Aug-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055 Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 39 4 H244774-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	20400		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	QM-07
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	GC-NC
Ethylbenzene*	0.242		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	0.759		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	GC-NC1
Total BTEX	1.00		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PIL	))		134 %	71.5	-134	4080812	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	38.1		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
DRO >C10-C28*	523		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	124		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			88.0 %	48.2	-134	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			95.9 %	49.1	-148	4080807	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 09 4 H244774-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	3840		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)		118 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	y GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			75.9 %	48.2	-134	4080807	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			85.4 %	49.1	-148	4080807	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 10 4 H244774-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	6400		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5	-134	4080812	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			69.9 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			81.6 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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Celeg D. Keene



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 11 4 H244774-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	14200		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JН	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JН	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		110 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			70.7 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			83.2 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 12 4 H244774-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	11400		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JН	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		112 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			64.2 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			74.6 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 13 4 H244774-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	5460		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)		114 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	y GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			67.4 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			78.1 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 14 4 H244774-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	304		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		115 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			64.2 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			73.9 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 15 4 H244774-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16400		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JН	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		115 %	71.5	-134	4080812	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	149		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	22.6		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			70.1 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			87.6 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 16 4 H244774-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	3640		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JН	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		113 %	71.5	-134	4080812	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			73.6 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			85.8 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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Reported:

16-Aug-24 16:30



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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

FS 17 4 H244774-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	6660		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	ЈН	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		111 %	71.5	-134	4080812	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			70.6 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			81.7 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 18 4 H244774-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	14600		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JН	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		111 %	71.5	-134	4080812	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			72.8 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			84.3 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 19 4 H244774-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	14200		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		112 %	71.5	-134	4080812	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			66.9 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			76.8 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 20 4 H244774-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	17200		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		111 %	71.5	-134	4080812	ЈН	09-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			67.6 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			77.9 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 21 4 H244774-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	704		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JН	09-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		114 %	71.5	-134	4080812	JH	09-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			68.6 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			77.0 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 22 4 H244774-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	7600		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		111 %	71.5	-134	4080812	ЈН	09-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			76.6 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			88.7 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 23 4 H244774-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	2680		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080812	JН	09-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080812	JH	09-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	0)		111 %	71.5	-134	4080812	ЈН	09-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	62.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			69.7 %	48.2-	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			83.3 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 24 4 H244774-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	512		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		100 %	71.5	i-134	4080820	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			74.2 %	48.2	2-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			85.6 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 25 4 H244774-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	24000		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		101 %	71.5	-134	4080820	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			68.3 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			78.0 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055 Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 26 4 H244774-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2800		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.7 %	71.5	-134	4080820	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			68.1 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			76.7 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 27 4 H244774-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	1730		16.0	mg/kg	4	4080947	AC	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		100 %	71.5	-134	4080820	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			69.2 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			80.0 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 28 4 H244774-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2320		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	QM-07
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		100 %	71.5	-134	4080820	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			67.2 %	48.2	-134	4080808	ms	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			77.5 %	49.1	-148	4080808	ms	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 29 4 H244774-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	2530		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		101 %	71.5	i-134	4080820	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080808	ms	09-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080808	ms	09-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080808	ms	09-Aug-24	8015B	
Surrogate: 1-Chlorooctane			61.1 %	48.2	2-134	4080808	ms	09-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			71.8 %	49.1	-148	4080808	ms	09-Aug-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 30 4 H244774-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	10400		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	71.5	-134	4080820	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			63.9 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			76.0 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

16-Aug-24 16:30

Reported:

# FS 31 4 H244774-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	6260		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		100 %	71.5	-134	4080820	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane		·	71.2 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			81.3 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 32 4 H244774-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	2640		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		99.3 %	71.5	-134	4080820	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			75.4 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			86.4 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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Celey D. Keine



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 33 4 H244774-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		99.4 %	71.5	-134	4080820	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			75.1 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			86.1 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055 Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 34 4 H244774-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1120		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI.	D)		99.1 %	71.5	-134	4080820	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			71.5 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			83.0 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 35 4 H244774-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	3680		16.0	mg/kg	4	4080934	НМ	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		99.0 %	71.5	-134	4080820	JH	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	12.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			77.3 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			88.6 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055 Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### FS 36 4 H244774-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	6320		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5	-134	4080820	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			67.8 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			78.4 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 37 4 H244774-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	5520		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JН	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	))		100 %	71.5	-134	4080820	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			63.1 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			71.5 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

# FS 38 4 H244774-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	2440		16.0	mg/kg	4	4080934	HM	09-Aug-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4080820	JH	08-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		101 %	71.5	-134	4080820	ЈН	08-Aug-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	13.5		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctane			79.2 %	48.2	-134	4080830	MS	08-Aug-24	8015B	
Surrogate: 1-Chlorooctadecane			90.4 %	49.1	-148	4080830	MS	08-Aug-24	8015B	

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### **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080922 - 1:4 DI Water										
Blank (4080922-BLK1)				Prepared &	Analyzed:	09-Aug-24				
Chloride	ND	16.0	mg/kg	*						
LCS (4080922-BS1)				Prepared &	z Analyzed:	09-Aug-24				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4080922-BSD1)				Prepared &	Analyzed:	09-Aug-24				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 4080934 - 1:4 DI Water										
Blank (4080934-BLK1)				Prepared &	Analyzed:	09-Aug-24				
Chloride	ND	16.0	mg/kg							
LCS (4080934-BS1)				Prepared &	Analyzed:	09-Aug-24				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4080934-BSD1)				Prepared &	Analyzed:	09-Aug-24				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 4080947 - 1:4 DI Water										
Blank (4080947-BLK1)				Prepared &	z Analyzed:	09-Aug-24				
Chloride	ND	16.0	mg/kg							
LCS (4080947-BS1)				Prepared &	Analyzed:	09-Aug-24				
Chloride	432	16.0	mg/kg	400		108	80-120			

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### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

### Batch 4080947 - 1:4 DI Water

LCS Dup (4080947-BSD1)	Prepared & Analyzed: 09-Aug-24							
Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20

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Celeg D. Keene



%REC

Limits

RPD

## **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Spike

Level

Source

Result

%REC

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

RPD

Limit

Notes

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

Blank (4080812-BLK1)			Prepared & Analyzed: 08-Aug-24				
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	mg/kg				
Ethylbenzene	ND	0.050	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
Total BTEX	ND	0.300	mg/kg				
Surrogate: 4-Bromofluorobenzene (PID)	0.0571		mg/kg	0.0500	114	71.5-134	

Benzene	2.14	0.050	mg/kg	2.00	107	82.8-130	
Toluene	2.30	0.050	mg/kg	2.00	115	86-128	
Ethylbenzene	2.41	0.050	mg/kg	2.00	120	85.9-128	
m,p-Xylene	5.02	0.100	mg/kg	4.00	125	89-129	
o-Xylene	2.36	0.050	mg/kg	2.00	118	86.1-125	
Total Xylenes	7.38	0.150	mg/kg	6.00	123	88.2-128	
Surrogate: 4-Bromofluorobenzene (PID)	0.0557		mg/kg	0.0500	111	71.5-134	_

Surroguic. 7 Bromojiuorovenzene (112)	0.0557		mg/kg	0.0500	111	71.5 157			
LCS Dup (4080812-BSD1)				Prepared & Ana	alyzed: 08-Aug-24				
Benzene	2.13	0.050	mg/kg	2.00	106	82.8-130	0.649	15.8	
Toluene	2.26	0.050	mg/kg	2.00	113	86-128	1.60	15.9	
Ethylbenzene	2.37	0.050	mg/kg	2.00	118	85.9-128	1.87	16	
m,p-Xylene	4.93	0.100	mg/kg	4.00	123	89-129	1.83	16.2	
o-Xylene	2.31	0.050	mg/kg	2.00	116	86.1-125	2.04	16.7	
Total Xylenes	7.24	0.150	mg/kg	6.00	121	88.2-128	1.90	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0554		mg/kg	0.0500	111	71.5-134			

## Batch 4080820 - Volatiles

Blank (4080820-BLK1)			Prepared & Analyzed: 08-Aug-24
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

71.5-134

998

## **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Spike

0.0500

Source

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

RPD

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Reporting

0.0499

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080820 - Volatiles										
Blank (4080820-BLK1)				Prepared &	Analyzed:	08-Aug-24	1			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		100	71.5-134			
LCS (4080820-BS1)				Prepared &	Analyzed:	08-Aug-24	1			
Benzene	1.95	0.050	mg/kg	2.00		97.5	82.8-130			
Toluene	1.96	0.050	mg/kg	2.00		98.0	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.18	0.100	mg/kg	4.00		104	89-129			
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125			
Total Xylenes	6.22	0.150	mg/kg	6.00		104	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	71.5-134			
LCS Dup (4080820-BSD1)				Prepared &	: Analyzed:	08-Aug-24	1			
Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130	4.64	15.8	
Toluene	2.03	0.050	mg/kg	2.00		101	86-128	3.48	15.9	
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128	2.38	16	
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	89-129	2.30	16.2	
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125	2.12	16.7	
Total Xylenes	6.36	0.150	mg/kg	6.00		106	88.2-128	2.24	16.3	

mg/kg

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Surrogate: 4-Bromofluorobenzene (PID)



%REC

Limits

RPD

### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: JALMAT YATES UNIT #188

Project Number: 03E2057055

Spike

Level

Source

Result

%REC

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

RPD

Limit

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

Blank (4080807-BLK1)				Prepared & Anal	yzed: 08-Aug-2	4			
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0	91.3	48.2-134			
Surrogate: 1-Chlorooctadecane	51.8		mg/kg	50.0	104	49.1-148			
LCS (4080807-BS1)				Prepared & Anal	yzed: 08-Aug-2	4			
GRO C6-C10	218	10.0	mg/kg	200	109	66.4-123			
DRO >C10-C28	227	10.0	mg/kg	200	113	66.5-118			
Total TPH C6-C28	445	10.0	mg/kg	400	111	77.6-123			
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0	108	48.2-134			
Surrogate: 1-Chlorooctadecane	59.8		mg/kg	50.0	120	49.1-148			
LCS Dup (4080807-BSD1)				Prepared & Anal	yzed: 08-Aug-2	4			
GRO C6-C10	217	10.0	mg/kg	200	109	66.4-123	0.358	17.7	
DRO >C10-C28	224	10.0	mg/kg	200	112	66.5-118	1.19	21	
Total TPH C6-C28	442	10.0	mg/kg	400	110	77.6-123	0.780	18.5	
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0	106	48.2-134			
Surrogate: 1-Chlorooctadecane	58.1		mg/kg	50.0	116	49.1-148			

### **Batch 4080808 - General Prep - Organics**

Blank (4080808-BLK1)	Prepared & Analyzed: 08-Aug-24								
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	40.7		mg/kg	50.0	81.3	48.2-134			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0	94.4	49.1-148			

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%REC

## **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: JALMAT YATES UNIT #188

Spike

Source

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

RPD

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080808 - General Prep - Organi	cs									
LCS (4080808-BS1)				Prepared &	: Analyzed:	08-Aug-24	1			
GRO C6-C10	209	10.0	mg/kg	200		105	66.4-123			
DRO >C10-C28	200	10.0	mg/kg	200		100	66.5-118			
Total TPH C6-C28	410	10.0	mg/kg	400		102	77.6-123			
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.5	48.2-134			
Surrogate: 1-Chlorooctadecane	54.5		mg/kg	50.0		109	49.1-148			
LCS Dup (4080808-BSD1)				Prepared &	: Analyzed:	08-Aug-24	1			
GRO C6-C10	211	10.0	mg/kg	200		106	66.4-123	0.979	17.7	
DRO >C10-C28	202	10.0	mg/kg	200		101	66.5-118	0.738	21	
Total TPH C6-C28	413	10.0	mg/kg	400		103	77.6-123	0.861	18.5	
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.6	48.2-134			
Surrogate: 1-Chlorooctadecane	53.3		mg/kg	50.0		107	49.1-148			
Batch 4080830 - General Prep - Organi	cs									
Blank (4080830-BLK1)				Prepared &	: Analyzed:	08-Aug-24	1			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.1		mg/kg	50.0		84.2	48.2-134			
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.6	49.1-148			
LCS (4080830-BS1)				Prepared &	Analyzed:	08-Aug-24	1			
GRO C6-C10	198	10.0	mg/kg	200		99.0	66.4-123			
DRO >C10-C28	194	10.0	mg/kg	200		97.0	66.5-118			
Total TPH C6-C28	392	10.0	mg/kg	400		98.0	77.6-123			
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	48.2-134			
Surrogate: 1-Chlorooctadecane	54.2		mg/kg	50.0		108	49.1-148			

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%REC

Limits

RPD

### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: JALMAT YATES UNIT #188

Spike

Level

Source

Result

%REC

Project Number: 03E2057055

Project Manager: AIMEE COLE

Fax To:

Reported: 16-Aug-24 16:30

RPD

Limit

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

Batch 4080830 - General Prep - Organics											
LCS Dup (4080830-BSD1)		Prepared & Analyzed: 08-Aug-24									
GRO C6-C10	214	10.0	mg/kg	200	107	66.4-123	7.92	17.7			
DRO >C10-C28	212	10.0	mg/kg	200	106	66.5-118	8.94	21			
Total TPH C6-C28	426	10.0	mg/kg	400	107	77.6-123	8.43	18.5			
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0	102	48.2-134					
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0	114	49.1-148					

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### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with

interfering compounds.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

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  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

(G)RAB OR (C)OMP

# CONTAINERS

GROUNDWATER WASTEWATER

MATRIX

PRESERV

SAMPLING

Chlorides

Fax #:

Phone #:

SOIL

OIL

SLUDGE OTHER

ACID/BASE

ICE / COOL

OTHER

DATE

TIME

8/7/24/0940

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State: City:

Zip:

Address: Attn:

Zip: 88220

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

lager: Aimee Cole	ame: Ensolum, LLC	(5/5) 393-2326 FAX (575) 393-2476	(EZE) 202 0000
DILL TO			
NAI VOIS DECLES			

P.O. #:

ANALYSIS

REQUEST

Company: ENSoluM, LLC

ATMER COLE

Page 47 of 50

REMARKS: POLICE COM/MSOLLISEPPSOLUM, COM

\*Customer Juguestel Id

All Results are emailed. Please provide Email address:

ON O

Add'l Phone #:

Verbal Result: ☐ Yes

Received By:

ins, loss of use, or loss of profits incurred by client, its subsidiaries

within 30 days after cor

letion of the applicable

2/4 318 213

Sample Condition
Cool Intact
Ves Yes
No No

CHECKED BY:

Thermometer ID # Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition

Cool Intact

Corrected Temp. °C Observed Temp. °C

Page 225 of 309

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

CHAIN-OF-	)
CUSTODY /	
AND ANALY	
SIS REQUES	

Project Manager A:	<u>C</u>		STEET TO		
Address 2420 H. Almee Cole			P.O. #:		ANALYSIS REQUEST
City: Carlsbad			Company: ENSOINM, UC	D),,(C)	
Phone #: (720) 384-7365	Fav #.	ZID: 88220	Attn: HIMER COIR	10	
Project #: 03 E 2057055	•	nor:	Address:		
Project Name: JalMa+ Y	1 20	50	City:		
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	Time:		70	EMARKS:	W 02 741 W 1961
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FURM-006 R 3.2 10/07/21	Corrected Temp. CC	2		Thermometer ID #437/1/0	Cool Intact Observed Temp. °C  ☐ Yes ☐ Yes
	† Cardinal ca	nnot accept verbal change	s. Please email changes	eene@	
				an annanapolitic	.com

200 Page 48 of 50

WASTEWATER

MATRIX

PRESERV

SAMPLING

Fax #:

State: Phone #:

Zip:

City: Address:

Attn: Mee Cole Company: Ensilum, LLC P.O. #:

01 THIS

ANALYSIS

REQUEST

SOIL

ACID/BASE

ICE / COOL OTHER

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DATE 120

TIME

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

W 0 Page 49 of 50

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All Results are emailed. Please provide Email address:

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within 30 days

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by client, its subsidiaries after con

etion of the applicable

Verbal Result:

□ Yes

ONO

Add'l Phone #:

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only) Sample Condition

ô

eter ID #13

☐ Yes ☐ Yes ☐ No ☐ No Cool Intact

Corrected Temp. Observed Temp.

(Initials)



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum 11 C (575) 393-2326 FAX (575) 393-2476

יייייייייייייייייייייייייייייייייייייי		
Project Manager: Aimee Cole		P.O. #: ANALYSIS REQUEST
Address: 3122 National Parks Hwy	V	
City: Carlsbad	State: NM Zip: 88220	Attn: A Me a Colo
Phone #: (720) 384-7365	Fax #:	Address:
Project #: 03 12057055	Project Owner:	City:
Project Name: Jay Mat Yate S		
n: 32.395541,	103,321776	Phone #-
Sampler Name: Mario Sorkis	Kik	TOTAL THE STATE OF
- 1		Fax#:
		PRESERV. SAMPLING
Lab I.D. Sample I.D.	(feet)  B OR (C)OI TAINERS NDWATER EWATER	ASE:
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EASE NOTE: Liability and Damages. Cardinal's liability and oil	EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based is contact.	
wice. In no event shall Cardinal be liable for incidental or conselliates or successors arising out of or related to the performance elinquished By:	NCE. 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, it is subsidiaries, ellinquished By:    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, ellinquished By:    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, ellinquished By:	eceived by Cardinal within 30 days after completion of the applicable is of use, or loss of profits incurred by client, its subsidiaries, based upon any of the above stated reasons or otherwise.
1/1/2	SITIAY TOWNED BY:	
elinquished By:	Date: Received By:	REMARKS: PROSE EMAIL AND SOLUM, COM/MSONGED EMAIL AND SOLUM, COM
ampler - UPS - Bils - Other	Observed Temp. °C Sample Condition Cool Intact	CHECKED BY: Tyrnaround Time: Standard Bacteria (only) Sample Condition
		Rush Cool Intact
	T Cardinal cannot accept verbal changes. Please email changes to celev ke	ano@cordinallal

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

Page 50 of 50



August 16, 2024

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JALMAT YATES UNIT #188

Enclosed are the results of analyses for samples received by the laboratory on 08/12/24 11:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keene

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



### Analytical Results For:

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

Received: 08/12/2024 Sampling Date: 08/12/2024

Reported: 08/16/2024 Sampling Type: Soil
Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: SW02 0-4 (H244849-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.16	108	2.00	2.29	
Toluene*	<0.050	0.050	08/13/2024	ND	2.24	112	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.31	115	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.94	116	6.00	1.96	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/14/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	208	104	200	1.63	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.2	200	0.687	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 08/12/2024 Sampling Date: 08/12/2024

Reported: 08/16/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: SW06 0-4 (H244849-02)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.16	108	2.00	2.29	
Toluene*	<0.050	0.050	08/13/2024	ND	2.24	112	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.31	115	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.94	116	6.00	1.96	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/14/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	208	104	200	1.63	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.2	200	0.687	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/12/2024 Sampling Date: 08/12/2024

Reported: 08/16/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: SW08 0-4 (H244849-03)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.16	108	2.00	2.29	
Toluene*	<0.050	0.050	08/13/2024	ND	2.24	112	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.31	115	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.94	116	6.00	1.96	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/14/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	215	108	200	5.23	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	210	105	200	7.34	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/12/2024 Sampling Date: 08/12/2024

Reported: 08/16/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: SW11 0-4 (H244849-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.16	108	2.00	2.29	
Toluene*	<0.050	0.050	08/13/2024	ND	2.24	112	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.31	115	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.94	116	6.00	1.96	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/14/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	215	108	200	5.23	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	210	105	200	7.34	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	FAX (575) 393-2	476			
Company Name: Ensolum, LLC	: Ensolum, LLC			DI TIME		ANALYSIS REQUEST
Project Manager: Aimee Cole	: Aimee Cole			P.O. #:		
Address: 3122 N	Address: 3122 National Parks Hwy			Company: A Mee Cole	6010	
City: Carlsbad		State: NM	Zip: 88220	Attn: ENSOLUM, LLC	77.	
Phone #: (720) 384-7365	84-7365	Fax #:		Address:		
Project #: 0 3	Project #: 03E2057055	Project Owner:	••	City:		
Project Name:	Project Name: Ja/Ma+ Va+es	VNI+#188	8	State: Zip:		
<b>Project Location</b>	Project Location: 32,395541, -103,321776	-103,3217	96	Phone #:		
Sampler Name:	Masio Sasmis	7.5		Fax #:		
FOR LAB USE ONLY			MATRIX	ESERV.	SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH Chlorides	
_	Soms	0-4		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
W	Sw08	10-0	7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0928 / / /	
	Swll	0-4	_	<	0424 / / /	
PLEASE NOTE: Liability and [	amages. Cardinal's liability and d	ent's exclusive remedy for an	chairm arisigno whether bread in post and	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contrad a fact shall be liability.		
service. In no event shall Card affiliates or successors arising of Relinquished By:	service. In no event shall Cardinal be liable for incidental or consectifitiates or successors arising out of or related to the performance Relinquished By:	equental damages, including of services hereunder by Ca	quential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated Date;  Received By:	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business made in witing and received by Cardinal within 30 days after completion of the applicable 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:    Received By:   Receive	I Verbal Result:  Yes I No.	Add Dhone #-
Relinquished By:		Time:	Received By:		emailed. Ple	rovide Email address:  MSo(K)SCCNSO(UM, COM
		Time:				
Delivered By: (Circle One)	ne)	57	Sample Condition Cool Intact	on CHECKED BY:	Turnaround Time: Standard	Bacteria (only) S
Sampler - UPS - Bus -	Other:	Corrected Temp. °C	Wes 2 Yes		Thermometer ID #113 # 140	☐ Cool Intact☐ Yes☐ Yes☐ No ☐ No
	0:5 10101151	:				LING LING COTTECTED TEMP. C

Corrected Temp. °C



August 13, 2024

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JALMAT YATES UNIT #188

Enclosed are the results of analyses for samples received by the laboratory on 08/07/24 15:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: SW 01 0-4 (H244774-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	218	109	200	0.358	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	227	113	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: SW 07 0-4 (H244774-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5720	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	218	109	200	0.358	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	227	113	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	77.0 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2 9	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: SW 10 0-4 (H244774-03)

BTEX 8021B

DIEX GOZID	1119/	<u>ka</u>	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	218	109	200	0.358	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	227	113	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 49.1-14	8						

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Celeg D. Frene



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: SW 12 0-4 (H244774-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	218	109	200	0.358	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	227	113	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	77.5 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.75	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 08 4 (H244774-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	GC-NC
Ethylbenzene*	0.242	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	0.759	0.150	08/08/2024	ND	7.38	123	6.00	1.90	GC-NC1
Total BTEX	1.00	0.300	08/08/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	134	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	08/09/2024	ND	432	108	400	0.00	QM-07
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.1	10.0	08/08/2024	ND	218	109	200	0.358	
DRO >C10-C28*	523	10.0	08/08/2024	ND	227	113	200	1.19	
EXT DRO >C28-C36	124	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	88.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.9	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: MAVERICK 32.395541,-103.321776

ma/ka

### Sample ID: FS 09 4 (H244774-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	218	109	200	0.358	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	227	113	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	75.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 10 4 (H244774-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	69.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 11 4 (H244774-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	70.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: FS 12 4 (H244774-09)

BTEX 8021B

DILX GOZID	mg/	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	64.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.6	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 13 4 (H244774-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	67.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.1	% 49.1-14	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 14 4 (H244774-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	64.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 15 4 (H244774-12)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	149	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	22.6	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	70.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 16 4 (H244774-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	73.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 17 4 (H244774-14)

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	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: FS 18 4 (H244774-15)

BTEX 8021B

DILX GOZID	ıııg,	Ng .	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 71.5-13-	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	72.8	% 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-148	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 19 4 (H244774-16)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/08/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	66.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 20 4 (H244774-17)

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	08/09/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/09/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/09/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/09/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	67.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.9	% 49.1-14	18						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 21 4 (H244774-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/09/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/09/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/09/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	68.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.0	% 49.1-14	18						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: FS 22 4 (H244774-19)

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/09/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/09/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/09/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 23 4 (H244774-20)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2024	ND	2.14	107	2.00	0.649	
Toluene*	<0.050	0.050	08/09/2024	ND	2.30	115	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/09/2024	ND	2.41	120	2.00	1.87	
Total Xylenes*	<0.150	0.150	08/09/2024	ND	7.38	123	6.00	1.90	
Total BTEX	<0.300	0.300	08/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	62.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	69.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: FS 24 4 (H244774-21)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	74.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 25 4 (H244774-22)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	68.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 26 4 (H244774-23)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	68.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 27 4 (H244774-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	08/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	69.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 28 4 (H244774-25)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	08/09/2024	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	67.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 29 4 (H244774-26)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2530	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2024	ND	209	105	200	0.979	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	200	100	200	0.738	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					
Surrogate: 1-Chlorooctane	61.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.8	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 30 4 (H244774-27)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	63.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 31 4 (H244774-28)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	71.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 32 4 (H244774-29)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 33 4 (H244774-30)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: FS 34 4 (H244774-31)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	71.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: MAVERICK 32.395541,-103.321776

ma/ka

### Sample ID: FS 35 4 (H244774-32)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.0	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	77.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03E2057055 Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 36 4 (H244774-33)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	67.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 37 4 (H244774-34)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	63.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/07/2024 Sampling Date: 08/07/2024

Reported: 08/13/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 38 4 (H244774-35)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	1.95	97.5	2.00	4.64	
Toluene*	<0.050	0.050	08/08/2024	ND	1.96	98.0	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.11	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.22	104	6.00	2.24	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	08/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.5	10.0	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	18						

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### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Relinquished By:

Time: 15550 Date:

Received By:

Received By:

ed by client, its subsidiaries

Verbal Result: ☐ Yes ☐ No Add'! Phone #:
All Results are emailed. Please provide Email address:

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

Observed Temp. °C

Sample Condition
Cool Intact
Ves Yes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. '
| Yes | Yes | Yes | No Corrected Temp.

Corrected Temp. °C Observed Temp. °C Time:

Relinquished By

service. In no event shall Cardinal be liable for incidental

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

(0.0) 000 -0-0	21/21/21		the state of the s		
Company Name: Ensolum, LLC		BII	BILL TAIR	A	ANALYSIS REQUEST
Project Manager: Aimee Cole		P.O. #:			
Address: 3122 National Parks Hwy		Company:	Company: FNSolum, LLC		
City: Carlsbad	State: NM Zip: 88220	Attn: A, M	ATMER COLE		
Phone #: (720) 384-7365	Fax #:	Address:			
Project #: 0352057055	Project Owner:	City:			
Project Name: JalMat Yates Unite #188	VNTHE # 188	State:	Zip:		
Project Location: 32,395541, -103,32177	3.321776	Phone #:			
Sampler Name: Mario Sarkis		Fax #:		5	
FOR LAB USE ONLY	Ρ.	MATRIX PRESERV.	SAMPLING	de	
Lab I.D. Sample I.D.	(feet) (G)RAB OR (C)OM # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	BTEX TPH Chlori	
5wo)	~	, <	8/7/240940	1 1 0	
2 SW07	13 6.0	. <	1000	7	
3 5610	112 4-0	, <	1018	9	
SW/2	13 6-0	. <	1027	< <	
5 508	4 6 1	<	1207	V V V	
6509	10 4	. <	11811	5	
7 ES10	1 3 4	,<	1213	< < <	
8 65/1	1 2 4	<	2181	7 7 7	
9 55/2	1 2 4	. <	12/4	1	
10 F3/3	1 0 1	V	V Idaa	000	-
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

430 Page 38 of 41

REMARKS:

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(2.2)				
Company Name: Ensolum, LLC	.,		OL ATIG	ANALYSIS REQUEST
Project Manager: Aimee Cole			P.O. #:	
Address: 3122 National Parks Hwy	Hwy		Company: FNSOINM, LCC	),440
City: Carlsbad	State: NM	Zip: 88220	Attn: AiMee cole	
Phone #: (720) 384-7365	Fax #:		Address:	
Project #: 03 E 2057055	S Project Owner:		City:	
Project Name: Ja/Mat Y	Yates unit #188		State: Zip:	
Project Location: 32.3955	32.395541, -103.321771	6	Phone #:	
>	Da(Kis		Fax #:	
$\neg$		MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	I.D. Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:  ACID/BASE: ICE / COOL OTHER:	BTEX TPH Chloride
	4.		. <	1334 11
17 ES15	,	C1 V	. <	1207 10
13 PS/6		C 1 V	. <	1209 01
14 5517		C 1 1	<	1211
5 6518		()	<	2) 21 7 7 7
ES		0 1	. <	213 / / /
53		C - <	<	12/5 VVV
		0	. ~	13/6 /// 3/161
19 Esaa		0		N N MEET
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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.	performance of services hereunder by C	services hereunder by Cardinal, regardless of whether such claim is based upon any of the above	s based upon any of the above stated rea	It:   Vas   No
Relinquished By:		Received By:		Verbal Result:
Relinquished By:	Date:	Received By:		REMARKS:
	Time:			
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition Cool Intact	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	Corrected Temp. C	ON ON ON O	AD	Thermometer ID #1877/40

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

Page 39 of 41

Relinquished By:

Time:

Received By:

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

Observed

Sample Condition
Cool Intact
Ves Yes
No No No

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

Thermometer ID #15 +)

Time:

Relinquished By

### 101 East Marland, Hobbs, NM 88240 oratories

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC	: Ensolum, LLC			OL THE	10	S 41 COS		ANALYSIS		REQUEST	
Project Manager: Aimee Cole	: Aimee Cole			P.O. #:							
Address: 3122 N	Address: 3122 National Parks Hwy			Company: FASIUM, CCC	JUMILL						
City: Carlsbad		State: NM	Zip: 88220	Attn: Finee Cole	6010						
Phone #: (720) 384-7365	84-7365	Fax #:		Address:							
Project #: 03E2057055	2057055	Project Owner:	ä	City:							
Project Name:	Jay Mat Vates	17 FINU	88	State: Zip:	ñ						
Project Location	Project Location: 38.345541, -103.321776	-103.3217	17%	Phone #:							
Sampler Name:	MASIO SAIKIS	~		Fax #:							
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	_			_	_	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	BTEX	Chlorides				
72	Esay	٦_	-	-	25 lags	0	1				
11	PSas		( )	<	(227)	7	9				
Z	F526		7	<	laag	<					
m	F527		7 1 7	V	1227	2					
2	£528		011	. <	1231	~	1				
24	F529		7		1232	<	0				
77	F530		011	<	1232	<	1				
82	F531		0 1		1234	< '	<				
29	F532		7 1	. <	1237	<	<				
8	£533	<	011	4	1234	\ \	5				
LEASE NOTE: Liability and nalyses. All claims including	Damages. Cardinal's liability and clie g those for negligence and any other	nt's exclusive remedy for a	**************************************	or tort, shall be limited to the ard received by Cardinal within 30	mount paid by the client for days after completion of th	pplicable					
ervice. In no event shall Car	g mose for negligence and any other i dinal be liable for incidental or conse	ause whatsoever shall be quental damages, includin	navyses, ut cams incuming mose for regulgence and any other causes whatsever state the element waved unless made in witting and received by Cardinal writing. Judgs after completion of the control of th	d received by Cardinal within 30 loss of use, or loss of profits inc	urred by client, its subsidiar	ies.					

REMARKS:

All Results are emailed. Please provide Email address:

☐ No Add'I Phone #:

Verbal Result: ☐ Yes

Relinquished By:

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

> Observed Time:

Relinquished By

PLEASE NOTE: Liability and Dam

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,

unt paid by the client for the

All Results are emailed. Please provide Email address:

a cole Gensolum, com/msarkis@ensolum,com

Verbal Result:

□ Yes

O No

Add'I Phone #:

REMARKS:

17/24

Received By:

### 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

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Company Name: Ensolum, LLC								8	BILLTO					Α	NAL	YSIS	S R	ANALYSIS REQUEST	<b>EST</b>			
Project Manager: Aimee Cole						P.O. #:	#							_				$\neg$	$\dashv$	$\dashv$	_	
Address: 3122 National Parks Hwy						Con	npar	Y: Œ	Company: ENSolun, LLC	211			_									
City: Carlsbad	State: NM	Zip:	Zip: 88220	0		Attn	Z	E,	Attn: AiMee COLE	10											-	
Phone #: (720) 384-7365	Fax #:					Add	Address:	91									11					
Project #: 03 12057055	Project Owner:					City:																
Project Name: Jay Mat Yate S	Unit #188	8				State:	e		Zip:													
Project Location: 32,395541, - 103,321776	103,321776				_	Pho	Phone #:															
Sampler Name: Mario Sarki	3					Fax #:	#:															
FOR LAB USE ONLY			Н	MATRIX	×	-	RES	PRESERV.	SAMPLING	ING			_						_	_		
Lab I.D. Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	BTEX	TPH	Chloride									
31 / FS3N	H,	1	_	5		-	-	-	1 NR/2/59	1236	<	<	<						$\dashv$	$\dashv$		
32 F535		S	_	<			-		_	237	<	7	<									
33 F536		0	_	<		_	_	_		238	<	5	. <									
B4 F537		7	_	<			-	,	-	1239	<	<	<							-		
B F538	*	0	-	<					-	OHE	5	<	<									
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			_			_								_					_	_		

Cool Intact

Yes A Yes

No No Sample Condition

eter ID

Cool Intact
☐ Yes ☐ Yes
☐ Nc ☐ No

CHECKED BY: (Initials)

Standard

Bacteria (only) Sample Condition

Observed Temp. °C Corrected Temp. °C

40E



August 01, 2024

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JALMAT YATES UNIT #188

Enclosed are the results of analyses for samples received by the laboratory on 07/29/24 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keene

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



### Analytical Results For:

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

Received: 07/29/2024 Sampling Date: 07/29/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 01 4' (H244494-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	07/30/2024	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.27	113	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.94	116	6.00	2.46	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/30/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	183	91.5	200	0.994	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	174	87.0	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 07/29/2024 Sampling Date: 07/29/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 02 4' (H244494-02)

BTEX 8021B	mg/kg		Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	07/30/2024	ND	2.19	109	2.00	2.39	
Ethylbenzene*	< 0.050	0.050	07/30/2024	ND	2.27	113	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.94	116	6.00	2.46	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	07/30/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	183	91.5	200	0.994	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	174	87.0	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celeg D. Frene



### Analytical Results For:

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

Received: 07/29/2024 Sampling Date: 07/29/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 03 4' (H244494-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	07/30/2024	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.27	113	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.94	116	6.00	2.46	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/30/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	183	91.5	200	0.994	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	174	87.0	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	71.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.4	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 07/29/2024 Sampling Date: 07/29/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: MAVERICK 32.395541,-103.321776

ma/ka

### Sample ID: FS 04 5' (H244494-04)

RTFY 8021R

BIEX 8021B	тд/кд		Anaiyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	07/30/2024	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.27	113	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.94	116	6.00	2.46	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	07/30/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	183	91.5	200	0.994	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	174	87.0	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 07/29/2024 Sampling Date: 07/29/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: MAVERICK 32.395541,-103.321776

ma/ka

### Sample ID: FS 05 4' (H244494-05)

RTFY 8021R

BIEX 8021B	тд/кд		Anaiyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	07/30/2024	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.27	113	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.94	116	6.00	2.46	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/30/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	183	91.5	200	0.994	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	174	87.0	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-14	8						

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Celey D. Kreene



### Analytical Results For:

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

Received: 07/29/2024 Sampling Date: 07/29/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: MAVERICK 32.395541,-103.321776

ma/ka

### Sample ID: FS 06 5' (H244494-06)

RTFY 8021R

BIEX 8021B	тд/кд		Anaiyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	07/30/2024	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.27	113	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.94	116	6.00	2.46	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7700	16.0	07/30/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	183	91.5	200	0.994	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	174	87.0	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 07/29/2024 Sampling Date: 07/29/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 07 5' (H244494-07)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	07/30/2024	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.27	113	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.94	116	6.00	2.46	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	07/30/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	183	91.5	200	0.994	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	174	87.0	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 07/29/2024 Sampling Date: 07/29/2024

Reported: 08/01/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Alyssa Parras

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: FS 08 4' (H244494-08)

BTEX 8021B	mg/kg		Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	2.08	104	2.00	1.66	
Toluene*	<0.050	0.050	07/30/2024	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.27	113	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.94	116	6.00	2.46	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	07/30/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	183	91.5	200	0.994	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	174	87.0	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

### 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Company Namo: Encolum					
Company Maille. Elisolulli, EEC	ו, בבע		OL TRIE	ANALYSIS REQI	REQUEST
Project Manager: Aimee Cole	Cole		P.O. #:		
Address: 3122 National Parks Hwy	arks Hwy		Company: E/SOIVM	N. LIC	
City: Carlsbad	State: NM	Zip: 88220			
Phone #: (720) 384-7365	Fax #:		SS:		
Project #: 03E2057	Project Owner:	er:	City:		
Project Name: \@/Mat	Vates 1/1/1+#188	8	State: Zip:		
Project Location: 3d	395341, -103. 321 776	776	*		
Mario	2.		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		
Lab I.D. Samp	Sample I.D. Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH Chlorite	
1 (50)	h	_	, < J	+	
7 F502	y	61 7	. <	103 / / /	
O ·	4	( )	٠,,	106	
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5 4505	. 7	( )		1113 111 11	
0 F506		0	. <	7 7 7 7	
7 8507		1 1	V .	1120 VVV	
8 6508	9	V - V	6	IASA V V V	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract of fort shall be limited to the amount said but the activation are	inal's liability and client's exclusive remedy for	any claim arising whether based in contract of	fort shall be limited to the amount hold b		
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved 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.	ence and any other cause whatsoever shall be di incidental or consequental damages, including or to the performance of services hereunder by Ca	deemed waived unless made in writing and rig without limitation, business interruptions, los Cardinal, regardless of whether such claim is	ade in writing and received by Cardinal within 30 days after or sa interruptions, loss of use, or loss of profits incurred by clien other such claim is based upon any of the above stated reason	ompletion of the applicable on the subsidiaries, conditions of the applicable on the subsidiaries, on the subsidiaries of	
Normidus DA.	7/29/24 7/29/24	Received By:		Verbal Result:	
Relinquished By:	Date:	Received By:		REMARKS:	ensolum, com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	Sample Condition Cool Intact Thes Thes	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Bacteria (only) Sample Condition  Rush ☐ Cool Intact Observed Temp.  Thermometer ID #143 ☐ Yes ☐ Yes	ample Condition Observed Temp. °C



August 28, 2024

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JALMAT YATES UNIT #188

Enclosed are the results of analyses for samples received by the laboratory on 08/22/24 12:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keene

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



### Analytical Results For:

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

 Received:
 08/22/2024
 Sampling Date:
 08/22/2024

 Reported:
 08/28/2024
 Sampling Type:
 Soil

Reported: 08/28/2024 Sampling Type: Soil
Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Shalyn Rodriguez

A ..... I ..... . J D. ... 711

Project Location: MAVERICK 32.395541,-103.321776

### Sample ID: TOPSOIL (H245122-01)

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	08/23/2024	ND	2.04	102	2.00	1.26	
Toluene*	<0.050	0.050	08/23/2024	ND	1.97	98.7	2.00	0.495	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	1.97	98.5	2.00	0.414	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	5.87	97.8	6.00	0.150	
Total BTEX	<0.300	0.300	08/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	219	109	200	2.23	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	215	108	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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Celey D. Keine



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: 08/22/2024 Sampling Date: 08/22/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: JALMAT YATES UNIT #188 Sampling Condition: Cool & Intact
Project Number: 03E2057055 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK 32.395541,-103.321776

mg/kg

### Sample ID: CALICHE (H245122-02)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2024	ND	2.04	102	2.00	1.26	
Toluene*	<0.050	0.050	08/23/2024	ND	1.97	98.7	2.00	0.495	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	1.97	98.5	2.00	0.414	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	5.87	97.8	6.00	0.150	
Total BTEX	<0.300	0.300	08/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	219	109	200	2.23	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	215	108	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Freene

Celey D. Keene, Lab Director/Quality Manager

Relinquished By:

Received By

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

> Observed Temp. Time:

Cool Intact

A Yes A Yes

No No Sample Condition

CHECKED BY:

Turnaround Time:

Standard Rush

 $\Box$ 

Bacteria (only) Sample Condition
Cool Intact Observed Temp. (

Corrected Temp. °C Observed Temp. °C

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



## 101 East Marland, Hobbs, NM 88240

	(5/5) 393-2326 FAX (5/5) 353-24/0	X (0/0) 353-24	10	The state of the s			
Company Name: Ensolum, LLC	Ensolum, LLC			OL TAKE		ANALYSIS REQUEST	
Project Manager: Aimee Cole	: Aimee Cole			P.O. #:			
Address: 3122 N	Address: 3122 National Parks Hwy			Company: EN SOIUM, LCC	2011		
City: Carlsbad		State: NM	Zip: 88220	Attn: ATMER COLE			
Phone #: (720) 384-7365	84-7365	Fax #:		Address:			
Project #: 03E	Project #: 03E2057055	Project Owner:		City:			
Project Name:	TalMat Yates	1017 188		State: Zip:			
Project Location	Project Location: 32,3955 41, 103, 321;	, 7103, 321776	6	Phone #:			
Sampler Name:	Mario Sarkis			Fax #:			`
Campion ranno.	1 100100 0001 2110		MATRIX	PRESERV SAMPLING	LING		
FOR LAB USE ONLY		Depth	NATER ATER		EX H		
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	TOP-50-71			<	IIAA V V V		
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		in the available remarks for a	ny claim arising whether based in contr	ract or tort, shall be limited to the amount par	d by the client for the		
PLEASE NOTE: Liability a analyses. All claims includ service. In no event shall C	nd Damages. Cardinal's liability and o ing those for negligence and any othe ardinal be liable for incidental or con	dient's exclusive remedy for a r cause whatsoever shall be sequental damages, including	ny claim arising whether based in color deemed waived unless made in writing g without limitation, business interruption	PILEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any care arising wirened users in course to set, seem to any control within 20 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in wirting and received by Cardinal within 20 days after completion of the applicable service. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in wirting and received within 20 days after completion of the applicable service. In one 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, 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, service. In one 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, service. In one 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, and the consequent and	r completion of the applicable client, its subsidiaries, asons or otherwise		
Relinquished By:	ing out of or related to the performan  V:	ce of services hereunder by Control Date:	Received By:	affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the adversal control of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the adversal control of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the adversal control of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the adversal control of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the adversal control of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the performance of services hereunder by Cardinal, regardless of whether such daims is based upon any of the performance of services here.	ılt: ☐ Yes ıre emailed. Ple	☐ No Add'I Phone #: ase provide Email address:	
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APPENDIX E

NMOCD Correspondence

From: Rodgers, Scott, EMNRD

To: <u>Aimee Cole</u>

Subject: RE: [EXTERNAL] Maverick Permian, LLC - Extension Request - Jalmat 188 (Incident Number NAPP2235373931)

**Date:** Wednesday, June 12, 2024 1:49:36 PM

Attachments: <u>image002.png</u>

image003.png image004.png image005.png

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

### [ \*\*EXTERNAL EMAIL\*\*]

Your time extension request is approved. Remediation Due date has been updated to August 10, 2024 within the incident page.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

Scott

**Scott Rodgers** • Environmental Specialist – Adv.

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, June 12, 2024 11:34 AM

**To:** Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Maverick Permian, LLC - Extension Request - Jalmat 188 (Incident Number

NAPP2235373931)

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, June 12, 2024 11:24 AM

**To:** Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

**Subject:** [EXTERNAL] Maverick Permian, LLC - Extension Request - Jalmat 188 (Incident Number

NAPP2235373931)

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

To Whom It May Concern,

Maverick Permian, LLC (Maverick) is requesting an extension of the current June 11, 2024, deadline for submitting a report required in 9.15.29.12.B.(1) NMAC detailing remedial actions at the Jalmat 188 (Incident Number NAPP2235373931). A remediation work plan was approved by the NMOCD, private landowner, and NMSLO. Excavation of impacted soil was delayed due to internal logistics but is scheduled to be completed during June/July 2024. In order to complete the excavation activities, review the soil sample laboratory analytical results, and prepare a closure report, Maverick requests a 60-day extension until August 10, 2024.

Thank you,



From: <u>Buchanan, Michael, EMNRD</u>

To: <u>Aimee Cole</u>

Subject: RE: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 301733

**Date:** Wednesday, June 12, 2024 9:52:41 AM

Attachments: image001.png

image002.png image003.png

### [ \*\*EXTERNAL EMAIL\*\*]

Hi Aimee,

You're welcome, glad I could help clear some of that up. As far as the clay liner installation goes, the OCD isn't necessarily approving it, but that is something that has been agreed on with the landowner and Maverick, and OCD has been notified. Is the clay locally sourced/ mined from the area?

Thank you,

From: Aimee Cole <acole@ensolum.com> Sent: Wednesday, June 12, 2024 9:35 AM

To: Buchanan, Michael, EMNRD < Michael. Buchanan@emnrd.nm.gov>

Subject: RE: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application,

Application ID: 301733

Thank you for your response!

You are right about the boring log, I see that now.

The liner is only being installed because the private landowner is requiring it, remediation will meet NMOCD requirements without the liner.

Thank you for confirming the 500 ft<sup>2</sup> sampling variance for the floor samples.



From: Buchanan, Michael, EMNRD < Michael. Buchanan@emnrd.nm.gov >

**Sent:** Wednesday, June 12, 2024 8:12 AM **To:** Aimee Cole <a href="mailto:acole@ensolum.com">acole@ensolum.com</a>

**Subject:** RE: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application,

Application ID: 301733

You don't often get email from michael.buchanan@emnrd.nm.gov. Learn why this is important

[ \*\*EXTERNAL EMAIL\*\*]

Good morning, Aimee

There was conflicting information in the Soil Sampling Log for DTW, as it stated, "No water was observed within the soil boring after at least 24 hours." Please ensure in the future that the information matches, as I see in the narrative that it states 72 hours.

Maverick Permian is approved to collect samples every 500 sq. ft for confirmation sampling.

Liners that are placed on top of contamination as a remediation variance in an effort solely to ensure contamination doesn't migrate further is not equal or better protection of public health or the environment, as the contamination will remain in place. **Variances with a liner request solely to reduce cleanup will be denied**. OCD may also require landowner concurrence for any variance request to permanently leave contamination in place. OCD will not be approving liners at 4 feet as a remediation method.

Thank you, please feel free to reach out with further questions or concerns.

Mike Buchanan

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, June 12, 2024 8:41 AM

**To:** Buchanan, Michael, EMNRD < <u>Michael.Buchanan@emnrd.nm.gov</u>>

Subject: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application,

Application ID: 301733

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

Hi Michael,

We are scheduling excavation activities for incident ID nAPP2235373931 and I am reviewing your below conditional approval of the work plan.

Can you please clarify the conditions and confirm if the floor samples are approved to be collected every 500 square feet?

### The Remediation Plan is Conditionally Approved.

- Boreholes drilled to determine DTW are required to be open for a minimum of 72 hours.
  - This was already completed and documented in the work plan.
- All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC.
  - Agree and stated in the work plan.
- Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water

### determination.

- Agree and stated in the work plan.
- Please clarify if floor samples are approved to be collected every 500 square feet as proposed in the work plan.
  - The excavation will be 4 feet deep and approximately 20,000 square feet (50 floor samples vs 100 floor samples).
  - The release was vertically delineated to below the most stringent Table 1
     Closure Criteria
  - Depth to groundwater was confirmed to be >100 feet
  - Floor samples will be collected at a depth of 4 feet and will meet Closure
     Criteria for depth to groundwater >100 feet.
  - A clay liner will be installed in the excavation over the floor samples.
- Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2.
  - Agree and stated in the work plan.
- All off pad areas must meet reclamation standards set forth in the OCD Spill Rule.
  - Agree and stated in the work plan.

Thank you for your help!



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

**Sent:** Wednesday, March 13, 2024 8:46 AM **To:** Aimee Cole <a href="mailto:acole@ensolum.com">acole@ensolum.com</a>>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 301733

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### \*\*EXTERNAL EMAIL\*\*

To whom it may concern (c/o Aimee Cole for Maverick Permian LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2235373931, with the following conditions:

• The Remediation Plan is Conditionally Approved. Boreholes drilled to determine DTW are required to be open for a minimum of 72 hours. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Michael Buchanan
Environmental Specialist
505-490-0798
Michael.Buchanan@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: Bradley Blevins
To: Aimee Cole
Cc: Bradley Blevins

Subject: RE: Jalmat Yates Unit #188 - Remediation Work Plan (Maverick Permian, LLC)

**Date:** Monday, March 18, 2024 7:30:15 AM

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

image002.png image003.png image004.png

### [ \*\*EXTERNAL EMAIL\*\*]

Yes, please proceed.

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, March 13, 2024 11:38 AM

To: Bradley Blevins <Bradley@merchantlivestock.com>

Subject: RE: Jalmat Yates Unit #188 - Remediation Work Plan (Maverick Permian, LLC)

### Hi Bradley,

I just want to make sure you have reviewed and approve of the attached work plan before we proceed with excavation activities. The work plan was revised to include the installation of a liner per your request.



### Aimee Cole Associate Principal 720-384-7365 Ensolum, LLC

in f 🏏

**From:** Bradley Blevins < <u>Bradley@merchantlivestock.com</u>>

**Sent:** Monday, January 22, 2024 12:55 PM **To:** Aimee Cole <a href="mailto:acole@ensolum.com">acole@ensolum.com</a> **Cc:** Bryce.Wagoner@mavresources.com

Subject: RE: Jalmat Yates Unit #188 - Remediation Work Plan (Maverick Permian, LLC)

### [ \*\*EXTERNAL EMAIL\*\*]

Received, thank you.

From: Aimee Cole <acole@ensolum.com>
Sent: Monday, January 22, 2024 11:51 AM

**To:** Bradley Blevins < <u>Bradley@merchantlivestock.com</u>>

Cc: Bryce.Wagoner@mavresources.com

Subject: RE: Jalmat Yates Unit #188 - Remediation Work Plan (Maverick Permian, LLC)

Hi Bradley,

Please see the attached revised Remediation Work Plan for the Jalmat Yates Unit 188 (Incident Number NAPP2235373931).

The work plan has been revised to include installation of a clay liner over the historical pit (liner will be installed within the open excavation at 4 feet bgs prior to backfilling).

Thank you,



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

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

QUESTIONS

Action 381314

### **QUESTIONS**

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	381314
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2235373931
Incident Name	NAPP2235373931 JALMAT YATES UNIT #188 @ 30-025-37580
Incident Type	Other
Incident Status	Reclamation Report Received
Incident Well	[30-025-37580] JALMAT FIELD YATES SAND UNIT #188

Location of Release Source	
Please answer all the questions in this group.	
Site Name	JALMAT YATES UNIT #188
Date Release Discovered	12/02/2022
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 1 BBL   Recovered: 0 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 381314

QUESTI	IONS (continued)
Operator: Maverick Permian LLC	OGRID: 331199
1000 Main Street, Suite 2900 Houston, TX 77002	Action Number: 381314
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response  The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 01/09/2024

District III

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

QUESTIONS, Page 3

Action 381314

**QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	381314
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be p	provided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil cor	ntamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineate	ed Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for ea	ach, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	18400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	572
GRO+DRO (EPA SW-846 Method 8015M)	572
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes which includes the anticipated timelines for beginning and completing the remediation	s completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, .
On what estimated date will the remediation commence	01/09/2023
On what date will (or did) the final sampling or liner inspection occur	12/08/2023
On what date will (or was) the remediation complete(d)	12/08/2023
What is the estimated surface area (in square feet) that will be reclaimed	20000
What is the estimated volume (in cubic yards) that will be reclaimed	3000
What is the estimated surface area (in square feet) that will be remediate	ed 20000
What is the estimated volume (in cubic yards) that will be remediated	3000
These estimated dates and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess or calculated and measurements are recognized to be the best guess.	lation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally ac	djusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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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
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 381314

### QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	381314
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement

Name: Aimee Cole Email: acole@ensolum.com

Date: 01/09/2024

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

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

QUESTIONS, Page 5

Action 381314

### **QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	381314
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

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

District I

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Santa Fe, NM 87505

QUESTIONS, Page 6

Action 381314

### **QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	381314
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	372060
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/12/2024
What was the (estimated) number of samples that were to be gathered	40
What was the sampling surface area in square feet	10000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	20300
What was the total volume (cubic yards) remediated	3900
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	20300
What was the total volume (in cubic yards) reclaimed	3000
Summarize any additional remediation activities not included by answers (above)	Remediation was completed in accordance with the approved Work Plan for this site.

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

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

Name: Aimee Cole
Email: acole@ensolum.com
Date: 09/06/2024

District I

District III

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

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Requesting a reclamation approval with this submission

What was the total reclamation surface area (in square feet) for this site

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

QUESTIONS, Page 7

Action 381314

QUESTIONS (	(continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	381314
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	

What was the total volume of replacement material (in cubic yards) for this site 3000

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

20300

establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	09/06/2024
Summarize any additional reclamation activities not included by answers (above)	See attached report

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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

Name: Aimee Cole
Email: acole@ensolum.com
Date: 09/06/2024

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

QUESTIONS, Page 8

Action 381314

**QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	381314
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

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

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

CONDITIONS

Action 381314

### **CONDITIONS**

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	381314
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	9/12/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/12/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	9/12/2024