

Closure Documentation

**3RF-72 - BETONNIE TSOSIE WASH UNIT M11
FACILITY ID [fVV2416953878]**



**DJR OPERATING LLC
200 Energy Court
Farmington, New Mexico 87401**

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

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

Form C-147
Revised April 3, 2017

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*

Type of action: ☐ Permit ☐ Registration
☐ Modification ☐ Extension
☒ Closure ☒ Other (explain) CLOSURE

* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: DJR Operating, LLC (For multiple operators attach page with information) OGRID #: 371838
Address: 200 Energy Court, Farmington, New Mexico 87401
Facility or well name (include API# if associated with a well): Bettonnie Tsosie Wash unit M11
OCD Permit Number: 3RF-72 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr M Section 11 Township 23N Range 8W County: San Juan
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**

Location of recycling facility (if applicable): Latitude 36.235278 Longitude -107.659307 NAD83

Proposed Use: ☒ Drilling* ☒ Completion* ☒ Production* ☐ Plugging *

*The re-use of produced water may NOT be used until fresh water zones are cased and cemented

☐ Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.

☒ Fluid Storage

☒ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type _____

☐ Activity permitted under 19.15.36 NMAC explain type: _____ ☐ Other explain _____

☐ For multiple or additional recycling containments, attach design and location information of each containment

☒ **Closure Report (required within 60 days of closure completion):** ☒ Recycling Facility Closure Completion Date: 7/29/24

3.

☒ **Recycling Containment:**

☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)

Center of Recycling Containment (if applicable): Latitude 36.235278 Longitude -107.659307 NAD83

☒ For multiple or additional recycling containments, attach design and location information of each containment

☒ Lined ☐ Liner type: Thickness 40 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other _____

☒ String-Reinforced

Liner Seams: ☒ Welded ☒ Factory ☐ Other _____ Volume: 86,000 bbl Dimensions: Radius 81.165' x Height 12'

☒ Recycling Containment Closure Completion Date: 7/29/24

4.

Bonding:

- ☒ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)
- ☐ Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ _____ (work on these facilities cannot commence until bonding amounts are approved)
- ☐ Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

Fencing:

- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify See variance request in registration package Exhibit A

6.

Signs:

- ☒ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.16.8 NMAC

7.

Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

- ☒ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

8.

Siting Criteria for Recycling Containment

Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

General siting**Ground water is less than 50 feet below the bottom of the Recycling Containment.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☒ No
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

☐ Yes ☒ No
☐ NA

- Written confirmation or verification from the municipality; written approval obtained from the municipality

Within the area overlying a subsurface mine.

☐ Yes ☒ No

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

Within a 100-year floodplain. FEMA map

☐ Yes ☒ No

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

☐ Yes ☒ No

- Topographic map; visual inspection (certification) of the proposed site

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

☐ Yes ☒ No

- Visual inspection (certification) of the proposed site; aerial photo; satellite image

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

☐ Yes ☒ No

- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site

Within 500 feet of a wetland.

☐ Yes ☒ No

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

9.

Recycling Facility and/or Containment Checklist:**Instructions:** Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements. – Section 3 of the C-147 Registration Package
☐ Operating and Maintenance Plan - based upon the appropriate requirements. - Section 4 of the C-147 Registration Package
☒ Closure Plan - based upon the appropriate requirements. - Section 5 of the C-147 Registration Package
☐ Site Specific Groundwater Data – Exhibit C of the C-147 Registration Package
☐ Siting Criteria Compliance Demonstrations – Section 2 of the C-147 Registration Package
☐ Certify that notice of the C-147 (only) has been sent to the surface owner(s) – C-147 package is being submitted concurrently to the Division and BLM FFO

10.

Operator Application Certification:

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): Heather Huntington Title: Permitting Technician
 Signature: Heather Huntington Date: 11/18/24
 e-mail address: hhuntington@enduringresources.com Telephone: 505-636-9751

11.

OCD Representative Signature: Victoria Venegas Approval Date: 11/20/2024Title: Environmental Specialist OCD Permit Number: 3RF-72

- ☐ OCD Conditions
☐ Additional OCD Conditions on Attachment

1. **Upon cessation of operations (Defined as the use of less than 20% of the pond's total fluid capacity), Enduring will remove all fluids within 60 days of the official date of cessation.**
The final date of use was July 29, 2024. All fluids were removed from the containment on July 29, 2024.
2. **Enduring will close the produced water containment within six (6) months from the official date of cessation. If Enduring will require more than 6 months to complete closure activities, an extension request will be filed prior to the six (6) month time limit for closure.**
The containment was disassembled, and closure sampling was conducted on October 24, 2024.
3. **Closure activities will consist of the following:**
 - a. **Removal of all containment contents**
All containments were removed on July 29, 2024.
 - b. **Removal of liners and associated leak detection equipment for disposal at a division approved facility.**
All liner and leak detection materials were removed and disposed of at Bondad Landfill.
 - c. **Removal of all equipment associated with the continued operation of the recycling containment.**
All equipment associated with the continued operation of the recycling containment has been removed from the site.
 - d. **A 5-point composite soil sample will be collected in the containment area under the location of the liner, and the sample will be analyzed for the constituents listed in Table I.**
See attached sampling closure report. Samples are compliant with Table 1
4. **Reclamation**
The location will be interim reclaimed in accordance with the reclamation plan attached to the approved APDs associated with the BTWU 108H and 728H.



November 18, 2024

District III
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

**Re: Tank Closure Request
Bettonie Tsosie Wash Unit M11 AST Pad
Facility ID fVV2416953878
San Juan County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Enduring Resources (Enduring), has prepared this *Closure Request* to document soil sampling activities performed after tank removal at the Bettonie Tsosie Wash Unit M11 AST Pad (Site) in San Juan County, New Mexico. The purpose of the site assessment and soil sampling activities were to address impacts to soil upon removal of two Recycling Containments on the Site. Based on the analytical results from the soil sampling events, Enduring is submitting this *Closure Request* for this facility.

SITE DESCRIPTION

The Site is located in Unit M, Section 11, Township 23 North, Range 8 West, in San Juan County, New Mexico (36.235278° N, -107.659307° W) and is associated with oil and gas exploration and production operations on federal land. The Site was originally permitted to DJR Operating, LLC (DJR) which has since become a subsidiary of Enduring. The Site location is shown on Figure 1.

The Site consists of two above ground storage tanks (AST) of 43,000 barrels (BBL) each. Upon closure, all fluids were removed from the facility within 60 days from the date that operations ceased, and the containments were closed from use within six months from the date that DJR ceased operation. DJR removed all fluids, contents, synthetic liners, and leak detection piping and transferred these materials to an NMOCD-approved facility for disposal. All other equipment associated with the recycling containment and recycling facility were removed from the Site.

CLOSURE CRITERIA AND REMOVAL

Based on the approved permit, the following Table I Closure Criteria for Recycling Containments apply per Title 19, Chapter 15, Part 34, Section 14 (19.15.34.14) of the New Mexico Administrative Code (NMAC).

Per 19.15.34.7 B NMAC, the two AST containments fall within the definition of a "Recycling Containment" and must meet all applicable requirements of a Recycling Containment in Rule 19.15.34 NMAC.

Based on the results of the Site characterization, the following Table 1 Closure Criteria for Recycling Containments (Closure Criteria) apply:

Enduring Resources
C-147 Closure Request
Bettonie Tsosie Wash Unit M11 AST Pad

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

SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On October 24, 2024, Ensolum personnel were at the Site to sample following the removal of the AST containments. Ensolum collected two 5-point composite soil samples (Tank A and Tank B) from the ground where the tanks were previously located. 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. The soil sample locations are presented in Figure 2.

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 under strict chain-of-custody procedures to Eurofins Environmental Testing Laboratories in Albuquerque, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-motor oil range organics (MRO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for all confirmation soil samples indicated that all COCs were compliant with the Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 1.

If you have any questions or comments, please contact us at 303-601-1420 (dburns@ensolum.com) or 320-761-8214 (jcook@ensolum.com).

Sincerely,
Ensolum, LLC



John Cook
Associate Geologist



Danny Burns
Senior Geologist

cc: Bureau of Land Management

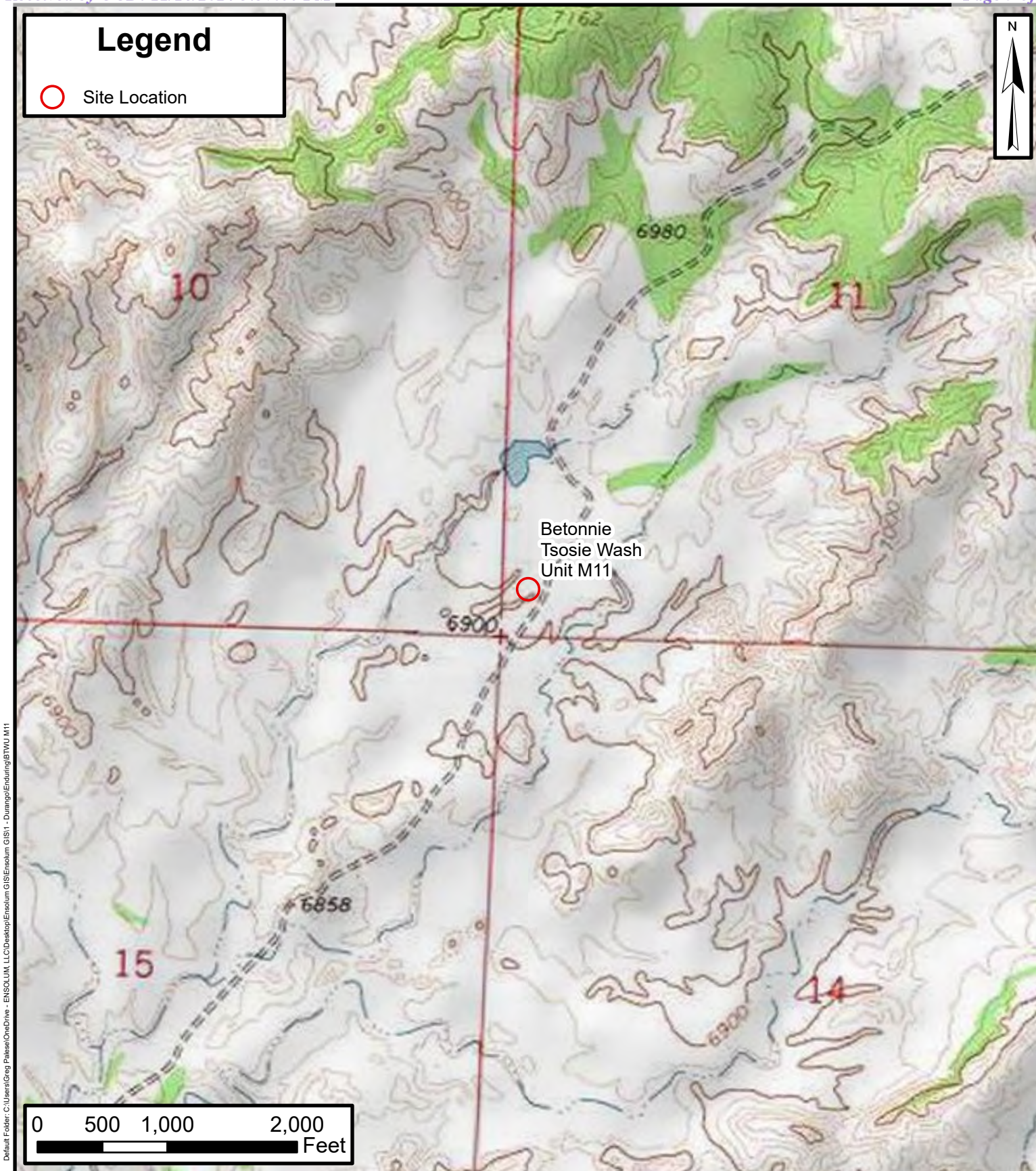
Attachments:

Figure 1	Site Location Map
Figure 2	Soil Sample Locations
Table 1	Soil Sample Analytical Results

Attachment 1 Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



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Site Location Map

Betonnie Tsosie Wash Unit M11
Enduring Resources, LLC

36.235278, -107.659307
San Juan County, New Mexico

FIGURE
1



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Soil Sample Locations

Betonneie Tsosie Wash Unit M11
Enduring Resources, LLC

36.235278, -107.659307
San Juan County, New Mexico

FIGURE
2



TABLE



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS BTWU M11 AST PAD Enduring Resources, LLC San Juan County, New Mexico												
Sample Identification	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	2,500	10,000
Tank A	10/24/2024	0-1'	<0.025	<0.05	<0.05	<0.1	<0.1	<5.0	<10.0	<50.0	<50.0	98
Tank B	10/24/2024	0-1'	<0.025	<0.05	<0.05	<0.1	<0.1	<5.0	<9.9	<50.0	<50.0	440

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: Milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon
' : Feet
< : Indicates result less than the stated laboratory reporting limit (RL)



ATTACHMENT

Laboratory Analytical Reports and Chain of
Custody Documentation



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

ANALYTICAL REPORT

PREPARED FOR

Attn: Danny Burns
Ensolum LLC
776 E 2nd Avenue
Durango, Colorado 81301
Generated 10/31/2024 4:44:06 PM

JOB DESCRIPTION

BTWU MII AST PAD C-147 Closure Sampling

JOB NUMBER

885-14267-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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10/31/2024 4:44:06 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum LLC
Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Laboratory Job ID: 885-14267-1



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Definitions/Glossary

Client: Ensolum LLC
Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Job ID: 885-14267-1

Glossary

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

Case Narrative

Client: Ensolum LLC
Project: BTWU MII AST PAD C-147 Closure Sampling

Job ID: 885-14267-1

Job ID: 885-14267-1

Eurofins Albuquerque

Job Narrative 885-14267-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/25/2024 6:15 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 4.3°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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.

Eurofins Albuquerque

Client Sample Results

Client: Ensolum LLC

Job ID: 885-14267-1

Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Client Sample ID: Tank A

Lab Sample ID: 885-14267-1

Date Collected: 10/24/24 12:15

Matrix: Solid

Date Received: 10/25/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		10/28/24 14:17	10/29/24 17:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	111		35 - 166			10/28/24 14:17	10/29/24 17:16	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		10/28/24 14:17	10/29/24 17:16	1	
Ethylbenzene	ND		0.050	mg/Kg		10/28/24 14:17	10/29/24 17:16	1	
Toluene	ND		0.050	mg/Kg		10/28/24 14:17	10/29/24 17:16	1	
Xylenes, Total	ND		0.10	mg/Kg		10/28/24 14:17	10/29/24 17:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		48 - 145			10/28/24 14:17	10/29/24 17:16	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		10/29/24 08:58	10/29/24 10:59	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		10/29/24 08:58	10/29/24 10:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	85		62 - 134			10/29/24 08:58	10/29/24 10:59	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	98		60	mg/Kg		10/26/24 10:20	10/28/24 17:07	20	

Client Sample Results

Client: Ensolum LLC

Job ID: 885-14267-1

Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Client Sample ID: Tank B

Lab Sample ID: 885-14267-2

Date Collected: 10/24/24 12:25

Matrix: Solid

Date Received: 10/25/24 06:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		10/28/24 14:17	10/29/24 18:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	115		35 - 166			10/28/24 14:17	10/29/24 18:21	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		10/28/24 14:17	10/29/24 18:21	1	
Ethylbenzene	ND		0.050	mg/Kg		10/28/24 14:17	10/29/24 18:21	1	
Toluene	ND		0.050	mg/Kg		10/28/24 14:17	10/29/24 18:21	1	
Xylenes, Total	ND		0.10	mg/Kg		10/28/24 14:17	10/29/24 18:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		48 - 145			10/28/24 14:17	10/29/24 18:21	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		10/29/24 08:58	10/29/24 11:10	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		10/29/24 08:58	10/29/24 11:10	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	87		62 - 134			10/29/24 08:58	10/29/24 11:10	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	440		60	mg/Kg		10/26/24 10:20	10/28/24 17:17	20	

QC Sample Results

Client: Ensolum LLC
Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Job ID: 885-14267-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-15018/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 15121						Prep Batch: 15018			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		10/28/24 14:17	10/29/24 16:54	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	117		35 - 166			10/28/24 14:17	10/29/24 16:54	1	

Lab Sample ID: LCS 885-15018/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 15121						Prep Batch: 15018			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]			25.0	27.3		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	232		35 - 166						

Lab Sample ID: 885-14267-1 MS						Client Sample ID: Tank A			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 15121						Prep Batch: 15018			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.8	29.6		mg/Kg		120	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	253		35 - 166						

Lab Sample ID: 885-14267-1 MSD								Client Sample ID: Tank A			
Matrix: Solid								Prep Type: Total/NA			
Analysis Batch: 15121								Prep Batch: 15018			
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.8	29.3		mg/Kg		118	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	250		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-15018/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 15122						Prep Batch: 15018			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		10/28/24 14:17	10/29/24 16:54	1	
Ethylbenzene	ND		0.050	mg/Kg		10/28/24 14:17	10/29/24 16:54	1	
Toluene	ND		0.050	mg/Kg		10/28/24 14:17	10/29/24 16:54	1	

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC

Job ID: 885-14267-1

Project/Site: BTWU MII AST PAD C-147 Closure Sampling

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

Lab Sample ID: MB 885-15018/1-A

Matrix: Solid

Analysis Batch: 15122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15018

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		10/28/24 14:17	10/29/24 16:54	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145			10/28/24 14:17	10/29/24 16:54	1

Lab Sample ID: LCS 885-15018/3-A

Matrix: Solid

Analysis Batch: 15122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.04		mg/Kg		104	70 - 130
Ethylbenzene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	1.05		mg/Kg		105	70 - 130
Xylenes, Total	3.00	3.09		mg/Kg		103	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	103		48 - 145				

Lab Sample ID: 885-14267-2 MS

Matrix: Solid

Analysis Batch: 15122

Client Sample ID: Tank B

Prep Type: Total/NA

Prep Batch: 15018

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		1.00	0.915		mg/Kg		92	70 - 130
Ethylbenzene	ND		1.00	0.948		mg/Kg		95	70 - 130
Toluene	ND		1.00	0.937		mg/Kg		94	70 - 130
Xylenes, Total	ND		3.00	2.79		mg/Kg		93	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		48 - 145						

Lab Sample ID: 885-14267-2 MSD

Matrix: Solid

Analysis Batch: 15122

Client Sample ID: Tank B

Prep Type: Total/NA

Prep Batch: 15018

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.994	0.911		mg/Kg		92	70 - 130	0	20
Ethylbenzene	ND		0.994	0.924		mg/Kg		93	70 - 130	3	20
Toluene	ND		0.994	0.911		mg/Kg		92	70 - 130	3	20
Xylenes, Total	ND		2.98	2.73		mg/Kg		91	70 - 130	2	20
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		48 - 145								

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC

Job ID: 885-14267-1

Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-15045/1-A

Matrix: Solid

Analysis Batch: 15053

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15045

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		10/29/24 08:58	10/29/24 10:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		10/29/24 08:58	10/29/24 10:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	84		62 - 134			10/29/24 08:58	10/29/24 10:38	1

Lab Sample ID: LCS 885-15045/2-A

Matrix: Solid

Analysis Batch: 15053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	42.1		mg/Kg		84	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	89		62 - 134				

Lab Sample ID: 885-14267-2 MS

Matrix: Solid

Analysis Batch: 15053

Client Sample ID: Tank B

Prep Type: Total/NA

Prep Batch: 15045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.3	38.0		mg/Kg		80	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	91		62 - 134						

Lab Sample ID: 885-14267-2 MSD

Matrix: Solid

Analysis Batch: 15053

Client Sample ID: Tank B

Prep Type: Total/NA

Prep Batch: 15045

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.9	39.2		mg/Kg		82	44 - 136	3	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	93		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-14965/1-A

Matrix: Solid

Analysis Batch: 14991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14965

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		10/26/24 10:20	10/28/24 11:29	1

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC
Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Job ID: 885-14267-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-14965/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 14991				Prep Batch: 14965			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.1		mg/Kg		94	90 - 110

QC Association Summary

Client: Ensolum LLC

Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Job ID: 885-14267-1

GC VOA

Prep Batch: 15018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14267-1	Tank A	Total/NA	Solid	5030C	
885-14267-2	Tank B	Total/NA	Solid	5030C	
MB 885-15018/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-15018/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-15018/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-14267-1 MS	Tank A	Total/NA	Solid	5030C	
885-14267-1 MSD	Tank A	Total/NA	Solid	5030C	
885-14267-2 MS	Tank B	Total/NA	Solid	5030C	
885-14267-2 MSD	Tank B	Total/NA	Solid	5030C	

Analysis Batch: 15121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14267-1	Tank A	Total/NA	Solid	8015M/D	15018
885-14267-2	Tank B	Total/NA	Solid	8015M/D	15018
MB 885-15018/1-A	Method Blank	Total/NA	Solid	8015M/D	15018
LCS 885-15018/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15018
885-14267-1 MS	Tank A	Total/NA	Solid	8015M/D	15018
885-14267-1 MSD	Tank A	Total/NA	Solid	8015M/D	15018

Analysis Batch: 15122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14267-1	Tank A	Total/NA	Solid	8021B	15018
885-14267-2	Tank B	Total/NA	Solid	8021B	15018
MB 885-15018/1-A	Method Blank	Total/NA	Solid	8021B	15018
LCS 885-15018/3-A	Lab Control Sample	Total/NA	Solid	8021B	15018
885-14267-2 MS	Tank B	Total/NA	Solid	8021B	15018
885-14267-2 MSD	Tank B	Total/NA	Solid	8021B	15018

GC Semi VOA

Prep Batch: 15045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14267-1	Tank A	Total/NA	Solid	SHAKE	
885-14267-2	Tank B	Total/NA	Solid	SHAKE	
MB 885-15045/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-15045/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-14267-2 MS	Tank B	Total/NA	Solid	SHAKE	
885-14267-2 MSD	Tank B	Total/NA	Solid	SHAKE	

Analysis Batch: 15053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14267-1	Tank A	Total/NA	Solid	8015M/D	15045
885-14267-2	Tank B	Total/NA	Solid	8015M/D	15045
MB 885-15045/1-A	Method Blank	Total/NA	Solid	8015M/D	15045
LCS 885-15045/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15045
885-14267-2 MS	Tank B	Total/NA	Solid	8015M/D	15045
885-14267-2 MSD	Tank B	Total/NA	Solid	8015M/D	15045

QC Association Summary

Client: Ensolum LLC

Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Job ID: 885-14267-1

HPLC/IC

Prep Batch: 14965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14267-1	Tank A	Total/NA	Solid	300_Prep	
885-14267-2	Tank B	Total/NA	Solid	300_Prep	
MB 885-14965/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-14965/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 14991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14267-1	Tank A	Total/NA	Solid	300.0	14965
885-14267-2	Tank B	Total/NA	Solid	300.0	14965
MB 885-14965/1-A	Method Blank	Total/NA	Solid	300.0	14965
LCS 885-14965/2-A	Lab Control Sample	Total/NA	Solid	300.0	14965

Lab Chronicle

Client: Ensolum LLC

Job ID: 885-14267-1

Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Client Sample ID: Tank A

Lab Sample ID: 885-14267-1

Date Collected: 10/24/24 12:15

Matrix: Solid

Date Received: 10/25/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15018	AT	EET ALB	10/28/24 14:17
Total/NA	Analysis	8015M/D		1	15121	AT	EET ALB	10/29/24 17:16
Total/NA	Prep	5030C			15018	AT	EET ALB	10/28/24 14:17
Total/NA	Analysis	8021B		1	15122	AT	EET ALB	10/29/24 17:16
Total/NA	Prep	SHAKE			15045	MI	EET ALB	10/29/24 08:58
Total/NA	Analysis	8015M/D		1	15053	MI	EET ALB	10/29/24 10:59
Total/NA	Prep	300_Prep			14965	JT	EET ALB	10/26/24 10:20
Total/NA	Analysis	300.0		20	14991	RC	EET ALB	10/28/24 17:07

Client Sample ID: Tank B

Lab Sample ID: 885-14267-2

Date Collected: 10/24/24 12:25

Matrix: Solid

Date Received: 10/25/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15018	AT	EET ALB	10/28/24 14:17
Total/NA	Analysis	8015M/D		1	15121	AT	EET ALB	10/29/24 18:21
Total/NA	Prep	5030C			15018	AT	EET ALB	10/28/24 14:17
Total/NA	Analysis	8021B		1	15122	AT	EET ALB	10/29/24 18:21
Total/NA	Prep	SHAKE			15045	MI	EET ALB	10/29/24 08:58
Total/NA	Analysis	8015M/D		1	15053	MI	EET ALB	10/29/24 11:10
Total/NA	Prep	300_Prep			14965	JT	EET ALB	10/26/24 10:20
Total/NA	Analysis	300.0		20	14991	RC	EET ALB	10/28/24 17:17

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum LLC
Project/Site: BTWU MII AST PAD C-147 Closure Sampling

Job ID: 885-14267-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Login Sample Receipt Checklist

Client: Ensolum LLC

Job Number: 885-14267-1

Login Number: 14267
List Number: 1
Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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.	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").	True	

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Wednesday, November 20, 2024 10:59 AM
To: Heather Huntington
Subject: 3RF-72 - BETONNIE TSOSIE WASH UNIT M11 FACILITY ID [fVV2416953878]
Attachments: C-147 3RF-72 - BETONNIE TSOSIE WASH UNIT M11 FACILITY ID [fVV2416953878]
11.20.2024.pdf

3RF-72 - BETONNIE TSOSIE WASH UNIT M11 FACILITY ID [fVV2416953878]

Good morning Ms. Huntington.

NMOCD has reviewed the recycling containment closure request and related documents, submitted by [371838] DJR OPERATING, LLC on 11/18/2024 Application ID 404475, for 3RF-72 - BETONNIE TSOSIE WASH UNIT M11 FACILITY ID [fVV2416953878] in M-11-23N-08W, San Juan County, New Mexico. The closure request has been approved.

- Please note that according to NMAC 19.15.34.14.E: Once the operator has closed the recycling containment, the operator shall reclaim the containment's location to a safe and stable condition that blends with the surrounding undisturbed area. Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area shall then be reseeded in the first favorable growing season following closure of a recycling containment.
- The operator shall substantially restore the impacted surface area to the condition that existed prior to the construction of the recycling containment.
- NMAC 19.15.34.14.G: The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health, and the environment. In accordance with 19.15.34.14.H, the operator shall notify the division when reclamation and re-vegetation are complete.
- Permit 3RF-72 has been closed. Please do not submit any form/document under this permit number.

Please let me know if you have any additional questions.

Regards,

Victoria Venegas • Environmental Specialist Advanced
EMNRD - Oil Conservation Division
506 W. Texas Ave. Artesia, NM 88210
575.909.0269 | Victoria.Venegas@emnrd.nm.gov

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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 404475

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 404475
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
venegas	NMOCD has reviewed the recycling containment closure request and related documents, submitted by [371838] DJR OPERATING, LLC on 11/18/2024 Application ID 404475, for 3RF-72 - BETONNIE TSOSIE WASH UNIT M11 FACILITY ID [fVV2416953878] in M-11-23N-08W, San Juan County, New Mexico. The closure request has been approved. • NMAC 19.15.34.14.G: The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health, and the environment. In accordance with 19.15.34.14.H, the operator shall notify the division when reclamation and re-vegetation are complete.	11/20/2024