

State of New Mexico
Energy Minerals and Natural Resources
Department Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
<https://www.emnrd.nm.gov/ocd/ocd-e-permitting/>

Form C-147
Revised October 11, 2022

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*
Type of action: ☒ Permit ☐ Registration **This submission requests closure of Ranger AST #1. Ranger AST #2 remains active**
☐ Modification ☐ Extension
☒ Closure ☒ Other (explain) _____

*** 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: Solaris Water Midstream LLC (For multiple operators attach page with information) OGRID #: 371643
 Address: 9811 Katy Freeway, Suite 900, Houston, Texas 77024
 Facility or well name (include API# if associated with a well): Ranger ASTs (Two 60K ASTs)
 OCD Permit Number: 1RF-501 (For new facilities the permit number will be assigned by the district office)
 U/L or Qtr/Qtr I&P Section 22 Township 20S Range 33E County: Lea
 Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Recycling Facility:**
 Location of recycling facility (if applicable): Latitude 32.554988 Longitude -103.645183 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: _____

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 32.554988 Longitude -103.645183 NAD83
☐ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☐ Liner type: Thickness 40 & 30 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
 Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____
☐ Recycling Containment Closure Completion Date: _____

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

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.
☒ Operating and Maintenance Plan - based upon the appropriate requirements.
☒ Closure Plan - based upon the appropriate requirements.
☒ Site Specific Groundwater Data -
☒ Siting Criteria Compliance Demonstrations –
☒ Certify that notice of the C-147 (only) has been sent to the surface owner(s)

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): Drew Dixon Title: SVP- Land and RegulatorySignature: *Drew Dixon* Date: 05/2/2025e-mail address drew.dixon@ariswater.com Telephone: 832-304-9028

11.

OCD Representative Signature: *Victoria Venegas* Approval Date: 05/08/2025Title: Environmental Specialist OCD Permit Number: 1RF-501

- ☒ OCD Conditions _____
☐ Additional OCD Conditions on Attachment _____

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996

May 2, 2025

Ms. Leigh Barr
EMNRD - Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505
Via E-Mail

Ms. Victoria Venegas
NMOCD - District 2
811 S. First St.
Artesia, NM 88210
Via E-Mail

RE: Solaris Water Midstream, LLC – Closure Report 1RF-501 Ranger AST #1
Section 22, T20S, R33E, Lea County

Dear Ms. Barr and Ms. Venegas:

On behalf of Solaris Water Midstream LLC, R.T. Hicks Consultants is pleased to submit this Closure Report for the referenced project. Sample results demonstrate that the liners did not release fluid and spillage, if any, is not discernable. Sample results are a fraction of the Table 1 limits. This submission requests closure of Ranger AST #1. Ranger AST #2 remains active and a C-147 requesting a Change Of Operator, is forthcoming.

The C-147 requesting closure of AST #1 will be uploaded by Solaris separately.

This closure report is required by NMOCD Rule 34, which is reproduced below for the benefit of Solaris with **emphasis** added.

19.15.34.14 CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS:

A. Once the operator has ceased operations, **the operator shall remove all fluids within 60 days and close the containment within six months from the date the operator ceases operations from the containment for use.** The division district office may grant an extension for the removal of all fluids not to exceed two months. The division district office may grant an extension to close the containment not to exceed six months. If the operator wants to use the containment for a purpose other than recycling then the operator must have that use approved or permitted by the division in accordance with the appropriate rules.

B. The operator shall close a recycling containment by first removing all fluids, contents and synthetic liners and transferring these materials to a division approved facility.

C. **The operator shall test the soils beneath the containment for contamination with a five-point composite sample which includes stained or wet soils, if any, and that sample shall be analyzed for the constituents listed in Table I below.**

(1) If any contaminant concentration is higher than the parameters listed in Table I, the division may require additional delineation upon review of the results and the operator must receive approval before proceeding with closure.

(2) If all contaminant concentrations are less than or equal to the parameters listed in Table I, then the operator can proceed to backfill with non-waste containing, uncontaminated, earthen material.

D. Within 60 days of closure completion, the operator shall **submit a closure report on form C-147,** including required attachments, to document all closure activities **including sampling results** and the details on any backfilling, capping or covering, where applicable. The closure report shall certify that all information in the report and attachments is correct and that the operator has complied with all applicable closure requirements and conditions specified in division rules or directives.

May 2, 2025

Page 2

A description of the sampling protocol and laboratory reports are Appendix A. A copy of the OCD approval is Appendix B.

The results of closure sampling are presented below. Because the depth to groundwater as provided in the approved permit application is more than 210 feet (page 22 of 67 of Siting Criteria Demonstration, December 2022), we used the appropriate remediation standards for a depth to groundwater greater than 100 feet.

Sample Location	Sample Depth (ft)	BTEX	GRO	DRO	EXT DRO	Chloride
C	0-0.5	10	10	10	10	32
C	0.5-0.75					16
NE	0-0.5	10	10	10	10	320
NE	0.5-0.75					352
NW	0-0.5	10	10	10	10	112
NW	0.5-0.75					176
SE	0-0.5	10	10	10	10	160
SE	0.5-0.75					144
SW	0-0.5	10	10	884	258	224
SW	0.5-0.75					192
Average (5 pt Comp)	0.0-0.5	10	10	184.8	59.6	169.6
Average (5 pt Comp)	0.5-0.75					176
Standard Deviation	0-0.5					96.5
Standard Deviation	0.5-0.75					79.4
Reporting Limit		50	2500			20000

If you or OCD representatives have any questions regarding this closure report, please contact me.

Sincerely,
R.T. Hicks Consultants



Randall T. Hicks PG
Principal

Copy: Solaris Water Midstream LLC

DESCRIPTION OF SAMPLING PROTOCOL AND LABORATORY REPORTS



April 2, 2025

Mr. Chris Lee
Cascade Services
3403 E County Rd 44
Midland, TX 79705

cllee@CascadeServicesLLC.com

Re: *Soil Samples Collected for AST Removal at the Ranger/Coombes Facility Near Hobb, New Mexico*

Dear Mr. Lee:

ENVIROTECH ENGINEERING & CONSULTING, INC., is pleased to submit information regarding the soil sampling activities conducted on March 20, 2025, for the aboveground storage tank (AST) removal project at the Ranger/Coombes facility near Hobbs, New Mexico. The former AST was located adjacent to the north of the existing AST on the same pad. GPS readings were collected at each corner of the pad for location reference as follows.

NW/Corner = 32.555527, -103.645514
SW/Corner = 32.555087, -103.645508
SE/Corner = 32.555071, -103.644856
NE/Corner = 32.555272, -103.645168

Soil samples were collected from five (5) locations within the tank footprint at depths of 0- to 0.5-ft. and 6- to 8-in. The soil samples were collected using a hand shovel and decontaminated in between each interval and each sample location. The 0- to 0.5-ft. soil samples were transported to Cardinal Laboratory in Hobbs New Mexico to be analyzed for total petroleum hydrocarbons (TPH); benzene, toluene, ethylbenzene, and xylenes (BTEX); and chloride. The 6- to 8-in. soil samples were analyzed for chloride only. GPS readings were collected at each sample location as follows:

NW = 32.555310, -103.64534
SW = 32.555134, -103.645323
SE = 32.555118, -103.644951
NE = 32.555379, -103.644942
C = 32.555262, -103.645138

A kmz file depicting the soil sample locations and the approximate tank footprint will be provided electronically. The laboratory analytical results are included herein as *Attachment A* and photographs of the site and sample locations are included herein as *Attachment B*.

Should you have any questions or concerns, please do not hesitate to contact me. ENVIROTECH

appreciates the opportunity to assist with your regulatory compliance needs and we look forward to working with you in the future.

Thank you.

Best regards,
ENVIROTECH ENGINEERING & CONSULTING, INC.



Melinda L. Austbo
Senior Environmental Scientist

Attachments A & B

025108-00

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS



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

March 26, 2025

MELINDA AUSTBO

ENVIROTECH ENGINEERING & CONSULTING, INC.

P.O. BOX 6029

ENID, OK 73702

RE: RANGER/COOMBES AST

Enclosed are the results of analyses for samples received by the laboratory on 03/20/25 9:57.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENVIROTECH ENGINEERING & CONSULTING, INC.
 MELINDA AUSTBO
 P.O. BOX 6029
 ENID OK, 73702
 Fax To: (580) 237-4302

Received:	03/20/2025	Sampling Date:	03/20/2025
Reported:	03/26/2025	Sampling Type:	Soil
Project Name:	RANGER/COOMBES AST	Sampling Condition:	Cool & Intact
Project Number:	025108	Sample Received By:	Shalyn Rodriguez
Project Location:	NEW MEXICO		

Sample ID: NW (0-0.5-FT) (H251640-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09	
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/24/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.3 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENVIROTECH ENGINEERING & CONSULTING, INC.
 MELINDA AUSTBO
 P.O. BOX 6029
 ENID OK, 73702
 Fax To: (580) 237-4302

Received:	03/20/2025	Sampling Date:	03/20/2025
Reported:	03/26/2025	Sampling Type:	Soil
Project Name:	RANGER/COOMBES AST	Sampling Condition:	Cool & Intact
Project Number:	025108	Sample Received By:	Shalyn Rodriguez
Project Location:	NEW MEXICO		

Sample ID: SW (0-0.5-FT) (H251640-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09	
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28	
Total BTEX	<0.300	0.300	03/21/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/24/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	884	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	258	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 MELINDA AUSTBO
 P.O. BOX 6029
 ENID OK, 73702
 Fax To: (580) 237-4302

Received:	03/20/2025	Sampling Date:	03/20/2025
Reported:	03/26/2025	Sampling Type:	Soil
Project Name:	RANGER/COOMBES AST	Sampling Condition:	Cool & Intact
Project Number:	025108	Sample Received By:	Shalyn Rodriguez
Project Location:	NEW MEXICO		

Sample ID: SE (0-0.5-FT) (H251640-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 73.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.3 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 P.O. BOX 6029
 ENID OK, 73702
 Fax To: (580) 237-4302

Received:	03/20/2025	Sampling Date:	03/20/2025
Reported:	03/26/2025	Sampling Type:	Soil
Project Name:	RANGER/COOMBES AST	Sampling Condition:	Cool & Intact
Project Number:	025108	Sample Received By:	Shalyn Rodriguez
Project Location:	NEW MEXICO		

Sample ID: NE (0-0.5-FT) (H251640-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENVIROTECH ENGINEERING & CONSULTING, INC.
 MELINDA AUSTBO
 P.O. BOX 6029
 ENID OK, 73702
 Fax To: (580) 237-4302

Received:	03/20/2025	Sampling Date:	03/20/2025
Reported:	03/26/2025	Sampling Type:	Soil
Project Name:	RANGER/COOMBES AST	Sampling Condition:	Cool & Intact
Project Number:	025108	Sample Received By:	Shalyn Rodriguez
Project Location:	NEW MEXICO		

Sample ID: C (0-0.5-FT) (H251640-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 26, 2025

MELINDA AUSTBO

ENVIROTECH ENGINEERING & CONSULTING, INC.

P.O. BOX 6029

ENID, OK 73702

RE: RANGER/COOMBES AST

Enclosed are the results of analyses for samples received by the laboratory on 03/20/25 9:57.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

ENVIROTECH ENGINEERING & CONSULTING, INC.
 MELINDA AUSTBO
 P.O. BOX 6029
 ENID OK, 73702
 Fax To: (580) 237-4302

Received:	03/20/2025	Sampling Date:	03/20/2025
Reported:	03/26/2025	Sampling Type:	Soil
Project Name:	RANGER/COOMBES AST	Sampling Condition:	Cool & Intact
Project Number:	025108	Sample Received By:	Shalyn Rodriguez
Project Location:	NEW MEXICO		

Sample ID: NW (6-8-IN.) (H251641-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/24/2025	ND	432	108	400	3.77	

Sample ID: SW (6-8-IN.) (H251641-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/24/2025	ND	432	108	400	3.77	

Sample ID: SE (6-8-IN.) (H251641-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/24/2025	ND	432	108	400	3.77	

Sample ID: NE (6-8-IN.) (H251641-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/24/2025	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENVIROTECH ENGINEERING & CONSULTING, INC.
MELINDA AUSTBO
P.O. BOX 6029
ENID OK, 73702
Fax To: (580) 237-4302

Received:	03/20/2025	Sampling Date:	03/20/2025
Reported:	03/26/2025	Sampling Type:	Soil
Project Name:	RANGER/COOMBES AST	Sampling Condition:	Cool & Intact
Project Number:	025108	Sample Received By:	Shalyn Rodriguez
Project Location:	NEW MEXICO		

Sample ID: C (6-8-IN.) (H251641-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/24/2025	ND	432	108	400	3.77		

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

Celey D. Keene, Lab Director/Quality Manager



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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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Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

ATTACHMENT B

PHOTOGRAPHS



Former Tank Location Area



Former Tank Location Area



Former Tank Location Area



Former Tank Location Area



Sample Location NW



Sample Location SW



Sample Location SE



Sample Location NE



Sampe Location C

Blank

Blank

Blank

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Thursday, May 8, 2025 10:00 AM
To: chad.gallagher@ariswater.com
Subject: 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497]
Attachments: C-147 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497] Closure AST#1
05.08.2025.pdf

1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497]

Good morning Mr. Gallagher.

The NMOCD has reviewed the closure request and Form C-147, submitted by [371643] SOLARIS WATER MIDSTREAM LLC on 05/06/2025, Application ID 459380, for one AST at 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497] in I-22-20S-33E, Lea County, New Mexico. The closure request for AST#1 at 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497] is approved.

[371643] SOLARIS WATER MIDSTREAM LLC will comply with all conditions previously approved for permit 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497]. No changes to the operations procedures, maintenance, and monitoring procedures, or closing procedures will be made and 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497] must operate as originally permitted. The 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497] consists of one AST with a total volume capacity of 60,000 bbl.

Please let me know if you have any additional questions.
Best 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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 459676

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 459676
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	The closure request for AST#1 at 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497] is approved. [371643] SOLARIS WATER MIDSTREAM LLC will comply with all conditions previously approved for permit 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497]. No changes to the operations procedures, maintenance, and monitoring procedures, or closing procedures will be made and 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497] must operate as originally permitted. The 1RF-501 - RANGER ASTs FACILITY ID [fVV2301837497] consists of one AST with a total volume capacity of 60,000 bbl.	5/8/2025