

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
☐ Modification ☐ Extension
☒ Closure ☒ Other (explain) AST 10K & 40K Closure Only

*** 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: ConocoPhillips Company (For multiple operators attach page with information) OGRID #: 217817
 Address: PO Box 2197 Houston TX 77252
 Facility or well name (include API# if associated with a well): Zia Hills Superman AST Containments #1 and #2
 OCD Permit Number: 1RF-454 (For new facilities the permit number will be assigned by the district office)
 U/L or Qtr/Qtr _____ Section 30 Township 26S Range 32E County: Lea
 Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Recycling Facility:**
 Location of recycling facility (if applicable): Latitude 32.014527° Longitude -103.714621 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:** Superman ASTs #1 and #2
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
 Center of Recycling Containment (if applicable): Latitude 32.014527 Longitude -103.714621 NAD83
☐ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☐ Liner type: Thickness 40 p 40 s mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other See design sketch of Volume 2 April 2020
☐ String-Reinforced
 #1 = 10 K #2 = 40K Total = 50 K bbl
 Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____
☐ Recycling Containment Closure Completion Date: _____ See Design Drawings March 2020

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 Game Fence

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. Variances in Volume 2 April 2020 submission

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.

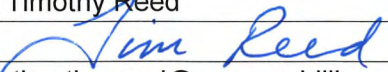
- ☐ Design Plan - based upon the appropriate requirements.
☐ Operating and Maintenance Plan - based upon the appropriate requirements.
☐ Closure Plan - based upon the appropriate requirements.
☐ Site Specific Groundwater Data -
☐ Siting Criteria Compliance Demonstrations -
☐ Certify that notice of the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

Not required for closure request

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): Timothy Reed Title: DB Water Superintendent
Signature:  Date: 06/11/2025
e-mail address: timothy.reed@conocophillips.com Telephone: 432-238-8399

11.

OCD Representative Signature: Victoria Venegas Approval Date: 06/23/2025

Title: Environmental Specialist OCD Permit Number: 1RF-454

- ☒ 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

June 10, 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: ConocoPhillips – Closure Report 2RF-454 AST #1 and AST #2
Section 30, T26S, R32E, Lea County
1RF-454

Dear Ms. Barr and Ms. Venegas:

On behalf of ConocoPhillips Company, 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. Sample results are a fraction of the Table 1 limits. This submission requests closure of AST #1 and AST #2.

The C-147 requesting closure of AST #1 & #2 will be uploaded by ConocoPhillips separately.

This closure report is required by NMOCD Rule 34, which is reproduced below for the benefit of ConocoPhillips 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.

Jun 10, 2025

Page 2

Laboratory reports are Appendix A. A copy of the OCD approval is Appendix B. A description of the sampling protocol and photographs of sampling are in Appendix C.

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 Table 1 remediation standards for a depth to groundwater greater than 100 feet.

Sample Location AST #1	Sample Depth (ft)	BTEX	GRO	DRO	EXT DRO	Chloride				Sample Location AST #2	Sample Depth (ft)	BTEX	GRO	DRO	EXT DRO	Chloride
C	0-4	0.3	10	10	10	48				C	0-4	0.3	10	10	10	64
C	4.25	0.3	10	10	10	32				C	4.25	0.3	10	10	10	48
N	0-4	0.3	10	10	10	16				N	0-4	0.3	10	10	10	32
N	4.25	0.3	10	10	10	16				N	4.25	0.3	10	10	10	96
S	0-4	0.3	10	10	10	80				S	0-4	0.3	10	10	10	465
S	4.25	0.3	10	10	10	16				S	4.25	0.3	10	10	10	688
E	0-4	0.3	10	10	10	48				E	0-4	0.3	10	10	10	16
E	4.25	0.3	10	10	10	16				E	4.25	0.3	10	10	10	16
W	0-4	0.3	10	10	10	48				W	0-4	0.3	10	10	10	32
W	4.25	0.3	10	10	10	16				W	4.25	0.3	10	10	10	32
Method Reporting Limit										Method Reporting Limit						
Average (5 pt Comp)	0-4	0.3	10	10	10	48				Average (5 pt Comp)	0-4	0.3	10	10	10	121.8
Average (5 pt Comp)	4.25					19.2				Average (5 pt Comp)	4.25					176
Standard Deviation	0-4					20.2				Standard Deviation	0-4					172.3
Standard Deviation	4.25					22.6				Standard Deviation	4.25					241.2
Table 1 Limit		50	2500			20000				Table 1 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: Cascade Services

APPENDIX A LABORATORY REPORTS

AST #1

AST #2



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

May 08, 2025

AARON GARCIA

FLEX OILFIELD SERVICES LLC

PO BOX 1320

HOBBS, NM 88240

RE: CASCADE SERVICES

Enclosed are the results of analyses for samples received by the laboratory on 05/07/25 14:30.

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



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

Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST CENTER #1 0-4' (H252733-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/08/2025	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST CENTER #1 4.25' (H252733-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/08/2025	ND	464	116	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST NORTH #1 0-4' (H252733-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995		
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376		
Total BTEX	<0.300	0.300	05/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/08/2025	ND	464	116	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.9 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 PO BOX 1320
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 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST NORTH #1 4.25' (H252733-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995		
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376		
Total BTEX	<0.300	0.300	05/07/2025	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	16.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST SOUTH #1 0-4' (H252733-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995		
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376		
Total BTEX	<0.300	0.300	05/07/2025	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	80.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 121 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST SOUTH #1 4.25' (H252733-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEx	<0.300	0.300	05/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 121 % 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:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST EAST #1 0-4' (H252733-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 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:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST EAST #1 4.25' (H252733-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEx	<0.300	0.300	05/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	05/08/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 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:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST WEST #1 0-4' (H252733-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995		
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376		
Total BTEx	<0.300	0.300	05/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.7 % 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:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NOT GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST WEST #1 4.25' (H252733-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	05/08/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 121 % 44.4-145

Surrogate: 1-Chlorooctadecane 124 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Cascade Services</u>		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: <u>Aaron Garcia</u>		Company: <u>Flex Oilfield Services</u>																	
Address: <u>PO Box 1320</u>		Attn: <u>Aaron Garcia</u>																	
City: <u>Hobbs</u>		Address: <u>PO Box 1320</u>																	
State: <u>NM</u>		City: <u>Hobbs</u>																	
Zip: <u>88240</u>		State: <u>NM</u>																	
Phone #: <u>(575) 399-0351</u>		Phone #: <u>575-399-0351</u>																	
Fax #: <u></u>		Fax #: <u></u>																	
Project #: <u></u>		Project Owner: <u></u>																	
Project Name: <u>Cascade Services</u>		State: <u>NM</u>																	
Project Location: <u>Superman AST 1</u>		Zip: <u>88240</u>																	
Sampler Name: <u></u>		Phone #: <u></u>																	
FOR LAB USE ONLY		Fax #: <u></u>																	
Lab I.D.		Sample I.D.																	
1 <u>H350733</u>		AST Center #1		0-4'		(G)RAB OR (C)OMP.		# CONTAINERS		DATE		TIME		CL		BTX		TPH	
2		AST Center #1		4.25'		✓		✓		5/7/25		9:36 AM		✓		✓		✓	
3		AST North #1		0-4'		✓		✓		5/7/25		9:36 AM		✓		✓		✓	
4		AST North #1		4.25'		✓		✓		5/7/25		9:46 AM		✓		✓		✓	
5		AST South #1		0-4'		✓		✓		5/7/25		9:57 AM		✓		✓		✓	
6		AST South #1		4.25'		✓		✓		5/7/25		10:05 AM		✓		✓		✓	
7		AST East #1		0-4'		✓		✓		5/7/25		9:49 AM		✓		✓		✓	
8		AST East #1		4.25'		✓		✓		5/7/25		9:49 AM		✓		✓		✓	
9		AST West #1		0-4'		✓		✓		5/7/25		9:49 AM		✓		✓		✓	
10		AST West #1		4.25'		✓		✓		5/7/25		9:49 AM		✓		✓		✓	
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Relinquished By: <u>Chas Garcia</u>		Date: <u>5/7/25</u>		Received By: <u>Bobbi JO</u>		Date: <u>5/7/25</u>		Time: <u>2:30 pm</u>		Turnaround Time: <u>Standard</u>		Standard <u>Rush</u>		Bacteria (only) <u>Sample Condition</u>		Cool <u>Intact</u>		Observed Temp. °C	
Relinquished By: <u>Chas Garcia</u>		Date: <u>5/7/25</u>		Received By: <u>Bobbi JO</u>		Date: <u>5/7/25</u>		Time: <u>2:30 pm</u>		Turnaround Time: <u>Standard</u>		Standard <u>Rush</u>		Bacteria (only) <u>Sample Condition</u>		Cool <u>Intact</u>		Observed Temp. °C	
Delivered By: (Circle One)		Observed Temp. °C		CHECKED BY: (Initials)		Turnaround Time: <u>Standard</u>		Standard <u>Rush</u>		Bacteria (only) <u>Sample Condition</u>		Cool <u>Intact</u>		Observed Temp. °C		Corrected Temp. °C			
Sampler - UPS - Bus - Other:		Corrected Temp. °C		CHECKED BY: (Initials)		Turnaround Time: <u>Standard</u>		Standard <u>Rush</u>		Bacteria (only) <u>Sample Condition</u>		Cool <u>Intact</u>		Observed Temp. °C		Corrected Temp. °C			



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

May 08, 2025

AARON GARCIA

FLEX OILFIELD SERVICES LLC

PO BOX 1320

HOBBS, NM 88240

RE: CASCADE SERVICES

Enclosed are the results of analyses for samples received by the laboratory on 05/07/25 14:30.

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



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

Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST CENTER #2 0-4' (H252734-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	64.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST CENTER #2 4.25' (H252734-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTX	<0.300	0.300	05/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST NORTH #2 0-4' (H252734-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST NORTH #2 4.25' (H252734-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	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	96.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	186	92.8	200	0.641	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	180	89.8	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST SOUTH #2 0-4' (H252734-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995		
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376		
Total BTEX	<0.300	0.300	05/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	464	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	201	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	197	98.4	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST SOUTH #2 4.25' (H252734-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	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	688	16.0	05/08/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	204	102	200	0.619	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	195	97.4	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST EAST #2 0-4' (H252734-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEx	<0.300	0.300	05/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	204	102	200	0.619	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	195	97.4	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST EAST #2 4.25' (H252734-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	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	16.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	204	102	200	0.619	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	195	97.4	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST WEST #2 0-4' (H252734-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2025	ND	2.21	110	2.00	0.995	
Toluene*	<0.050	0.050	05/07/2025	ND	2.33	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	2.23	112	2.00	0.0241	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	6.71	112	6.00	0.376	
Total BTEX	<0.300	0.300	05/07/2025	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	32.0	16.0	05/08/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	204	102	200	0.619	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	195	97.4	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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

Analytical Results For:

FLEX OILFIELD SERVICES LLC
 AARON GARCIA
 PO BOX 1320
 HOBBS NM, 88240
 Fax To:

Received: 05/07/2025
 Reported: 05/08/2025
 Project Name: CASCADE SERVICES
 Project Number: NONE GIVEN
 Project Location: SUPERMAN AST 1

Sampling Date: 05/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AST WEST #2 4.25' (H252734-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	2.21	110	2.00	0.995		
Toluene*	<0.050	0.050	05/08/2025	ND	2.33	117	2.00	0.417		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.23	112	2.00	0.0241		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.71	112	6.00	0.376		
Total BTEX	<0.300	0.300	05/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	05/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	204	102	200	0.619	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	195	97.4	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cascade Services Project Manager: Aaron Garcia Address: PO Box 1320 City: Hobbs State: NM Zip: 88240 Phone #: (575) 399-0351 Fax #: Project #: Project Name: Cascade Services Project Location: SUPERMAN AST 2 Sampler Name:				P.O. #: Company: Flex Oilfield Services Attn: Aaron Garcia Address: PO Box 1320 City: Hobbs State: NM Zip: 88240 Phone #: (575) 399-0351 Fax #:				BILL TO				ANALYSIS REQUEST							
FOR LAB USE ONLY				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:				MATRIX PRESERV. SAMPLING				DATE TIME				CL BTEX TPH			
Lab I.D. Sample I.D.																			
1 AST Center #2 0-4' 4" C 4.15' 5/7/25 11:56 AM ✓ 2 AST Center #2 4.15' 11:24 AM ✓ 3 AST North #2 6-4' 11:24 AM ✓ 4 AST North #2 4.25' 12:01 PM ✓ 5 AST South #2 0-4' 12:05 PM ✓ 6 AST South #2 4.25' 12:05 PM ✓ 7 AST East #2 0-4' 11:45 AM ✓ 8 AST East #2 4.25' 11:45 AM ✓ 9 AST West #2 0-4' 11:45 AM ✓ 10 AST West #2 4.25' 11:45 AM ✓																			

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Relinquished By: Date: 5/7/25 Time: 2:30 PM Received By: [Signature] Date: _____ Time: _____	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: flexoilfieldservices@gmail.com REMARKS: Bobbi Toe cascade services@flexoilfieldservices.com
--	---

Delivered By: (Circle One) UPS - Bus - Other: _____ Observed Temp. °C: 4.1c Corrected Temp. °C: 4.1c Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact Checked By: [Signature]	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #140 Correction Factor +0.3°C Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact Observed Temp. °C: _____ Corrected Temp. °C: _____
---	--

FORM 0001-R-03-02/12/20

+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.com

APPENDIX B COPY OF OCD APPROVAL

1RF – 454

Zia Hills (Superman)
Recycling Facility and
Containment

Approval with Conditions

Conoco Phillips
October 16, 2020

From: [LucasKamat, Susan, EMNRD](#)
To: [Lee, Jeremy L](#)
Cc: [Randall Hicks](#); louis.c.salazar@conocophillips.com; [Venegas, Victoria, EMNRD](#); [Polak, Tiffany, EMNRD](#)
Subject: Approval with Conditions, ConocoPhillips Zia Hills Recycling Facility and Containment (1RF-454), Section 30. T26S, R32E (Lea County, NM)
Date: Friday, October 16, 2020 1:50:00 PM

Good afternoon, Mr. Lee.

The New Mexico Oil Conservation Division (OCD) has reviewed the recycling containment permit application and related documents, submitted by Conoco Phillips (CP) (OGRID # 217817) on May 28, 2020, for the proposed Zia Hills Superman Recycling Facility and Containment in Lea County, New Mexico.

CP requested variances from 19.15.34 NMAC for the Zia Hills Superman Recycling Facility and Containment related to 19.15.34.12.A (2) NMAC containment side-slope requirements; 19.15.34.12.A (3) NMAC liner anchors and anchor trench requirements, 19.15.34.12 A (4) NMAC liner requirements, 19.15.34.13 B (2) NMAC freeboard requirements, 19.15.34.13.B (4) liner repair or replacement requirements, 19.15.34.13.B (5) fluid removal and liner repair and replacement requirements, 19.15.34.13 D NMAC fencing requirements, 19.15.34.13 E NMAC netting requirements, and 19.15.34.14.C NMAC / 19.15.34 NMAC Table I closure criteria for recycling containments.

The following variances have been approved.

- The variance to 19.15.34.13 D NMAC for the installation around the entire facility of a chain link fence, six (6) feet in height with a minimum of three (3) strands of barbed wire over the top of the chain link, is approved per the application.
- The variance to 19.15.34.13 E NMAC for the installation of an audible bird deterrence system, a Bird-X Mega-Blaster, is approved per the application.
- The variance to 19.15.34.14.C NMAC and 19.15.34 NMAC Table I for the use of alternate analytical method 8015/8015M for total petroleum hydrocarbons (TPH) is approved per the application.

The following variance, specific to the earthen containments, has been approved.

- The variance to 19.15.34.12 A (4) NMAC for the installation on the earthen containments of a 60-mil non-reinforced HDPE primary liner and a 60-mil non-reinforced HDPE secondary liner with a 200-mil geogrid drainage layer is approved per the application.

The following variances, specific to the above-ground storage tank (AST) containments, have been approved.

- The variance to 19.15.34.12.A (2) NMAC for the no side-slope requirement for the AST containment with vertical walls is approved per the application.

- The variance to 19.15.34.12.A (3) NMAC for the liners to be anchored to the top of the AST steel walls with clips and no anchor trenches is approved per the application.
- The variance to 19.15.34.12 A (4) NMAC for the installation on the ASTs containments of a 40-mil non-reinforced LLDPE primary liner and a 40-mil non-reinforced LLDPE secondary liner with a 200-mil geogrid drainage layer is approved per the application.

The following variances have been denied.

- The variance to 19.15.34.13.B (4) NMAC for allowing more than 48 hours after discovery to repair or replace a compromised primary liner above the fluid level is denied. Extension requests to the 48-hours after discovery timeframe to repair or replace a liner are considered based on the merits of the specific situation and request, and not a generic request. The containment liners must be repaired or replaced within 48-hours of discovery of the compromise or damage above the fluid level.
- The variance to 19.15.34.13.B (5) NMAC for allowing more than 48 hours after discovery to remove fluids and to repair or replace a compromised primary liner beneath the fluid level is denied. Extension requests to the 48-hours after discovery timeframe to remove fluids and to repair or replace a liner are considered based on the merits of the specific situation and request, and not a generic request.

The following variance, specific to the above-ground storage tank (AST) containments, has been denied.

- The variance to 19.15.34.13 B (2) NMAC for a 2-feet freeboard has been denied. The variance request did not address how a 2-feet freeboard would prevent overtopping of the tanks after wind and/or precipitation events. The containment must operate with the 3-feet freeboard as specified by rule.

The Form C-147 form and supporting documents submitted for registering and permitting the Zia Hills Superman Recycling Facility and Containment (1RF-454) is approved with the following conditions of conditions of approval:

- CP shall construct, operate, maintain, close, and reclaim the Zia Hills Superman Recycling Facility and Containment in compliance with 19.15.34 NMAC, including, but not limited to, the performance of containment inspections; recording of detailed inspection reports; removal of debris, foreign objects and oil from the containment; and monthly reporting of recycling and reuse of produced water, drilling fluids, and liquid oil field waste.
- The Zia Hills Superman Recycling Facility and Containment is approved for five (5) years of operation from the date of permit application. OCD received the permit application on May 28, 2020. The Zia Hills Superman Recycling Facility and Containment permit expires on May 28, 2025. If CP wishes to extend operations past five (5) years, an annual permit extension request must be submitted using an OCD form C-147 via email to OCD.Enviro@state.nm.us by April 28, 2025.

- CP shall provide the location (latitude and longitude) of each of the four (4) containments to OCD after construction.
- CP shall notify OCD when construction of each facility and/or containment at the Zia Hills Superman Recycling Facility and Containment (east containment, west containment, raw produced water AST, and future treated water) commences.
- CP shall notify OCD when recycling operations commence and cease at the Zia Hills Superman Recycling Facility and Containment.
- Water reuse and recycling from Zia Hills Superman Recycling Facility and Containment is limited to wells owned or operated by CP (OGRID # 217817).
- A minimum of 3-feet freeboard must be maintained in all the recycling containments, both earthen and steel tank, at all times during operations.
- CP shall provide OCD with the calculations for the operational total fluid capacity of each of the containments (east containment, west containment, raw produced water AST, and future treated water) within 30 days of receiving produced water in the containment. The operational fluid capacity is the total volume of the containment, minus the volume not utilized due to the freeboard.
- If less than 20% of the total fluid capacity is utilized every six months, beginning from the first withdraw, operation of the facility is considered ceased and notification of cessation of operations should be sent electronically to OCD.Enviro@state.nm.us. An extension to extend the cessation of operation, not to exceed six months, may be submitted using a C-147 form to OCD.Enviro@state.nm.us.
- CP shall submit monthly reports of recycling and reuse of produced water, drilling fluids, and liquid oil field waste. on via OCD form C-148. (Form C-148 is available for download at the OCD website at <http://www.emnrd.state.nm.us/OCD/forms.html>.)
- CP shall comply with 19.15.29 NMAC Releases in the event of any release of produced water or other oil field wastes at Zia Hills Superman Recycling Facility and Containment.

The facility has been assigned an OCD Administrative Order number 1RF-454. Please reference this number in all future communications, modifications, and notices related to Zia Hills Superman Recycling Facility and Containment and for monthly reporting of recycling and reuse of produced water, drilling fluids and liquid oil field waste. A copy of the approved C-147 forms for 1RF-454 is available through the OCD Imaging system at <http://ocdimage.emnrd.state.nm.us/imaging//AEOrderFileView.aspx?appNo=pSL2029048811> within 24 hours.

Please keep a copy of this electronic communication for your files. A certified copy will be mailed to you next week. A copy of this electronic communication will be saved in 1RF-454 electronic file on OCD Imaging referenced above.

Please do not hesitate to contact me if you have further questions or concerns.

Regards,
Susan

Susan A. Lucas Kamat

Environmental Scientist

Oil Conservation Division

Energy, Minerals, and Natural Resources Department

5200 Oakland Avenue, Suite 100

Albuquerque, New Mexico 87113

(505) 670-8745

Susan.LucasKamat@state.nm.us

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) _____

* 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: : ConocoPhillips Company OGRID #: 217817
Address: PO Box 2197 Houston TX 77252
Facility or well name (include API# if associated with a well): Zia Hills Recycling Facility and Containment
OCD Permit Number: 1RF-454 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr _____ Section 30 Township 26S Range 32E County: Lea
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**
Location of (if applicable): Latitude 32.014527° Longitude -103.714621 NAD83 (Approximate)
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:** VOLUME 1 FOR IN-GROUND CONTAINMENTS; VOLUME 2 FOR AST CONTAINMENTS
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling **Two In Ground Containments** (adjacent): (if applicable) Latitude 32.014614° Longitude -103.717637;
CUV'containments: Latitude 32.015321 Longitude -103.714592 NAD83 (Approximate)
☒ For multiple or additional recycling containments, attach design and location information of each containment: SEE DESIGN DRAWINGS
☒ Lined ☐ Liner type: Thickness **In Ground x2:** Primary 60- Mil HDPE; Secondary 60-Mil HDPE ☐ LLDPE ☒ HDPE ☐ PVC ☐ Other
AST: Primary _____ ; Secondary liner _____ . SEE DESIGN DRAWINGS ☐ String-Reinforced
Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: SEE DESIGN DRAWINGS bbl Dimensions: (Inside dimensions) SEE DESIGN DRAWINGS AST final design drawings pending
☐ Recycling Containment Closure Completion Date: May 2020

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 6 foot Chain link with 3 strand barbed wire

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. See Volume 3

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 **FIGURES 1-2**

☐ 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 **FIGURE 3**

Within the area overlying a subsurface mine.

☐ Yes ☒ No

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division **FIGURE 4**

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map **FIGURES 5a-e**

Within a 100-year floodplain. FEMA map **FIGURE 6**

☐ 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 **FIGURE 7**

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 **FIGURE 8**

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. **FIGURES 1 and 7**

☐ Yes ☒ No

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

Within 500 feet of a wetland. **FIGURE 9**

☐ 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): Jeremy Lee Title: Regulatory Coordinator

Signature:  Date: 3/30/20

e-mail address Jeremy.L.Lee@conocophillips.com Telephone: 832.486.2510

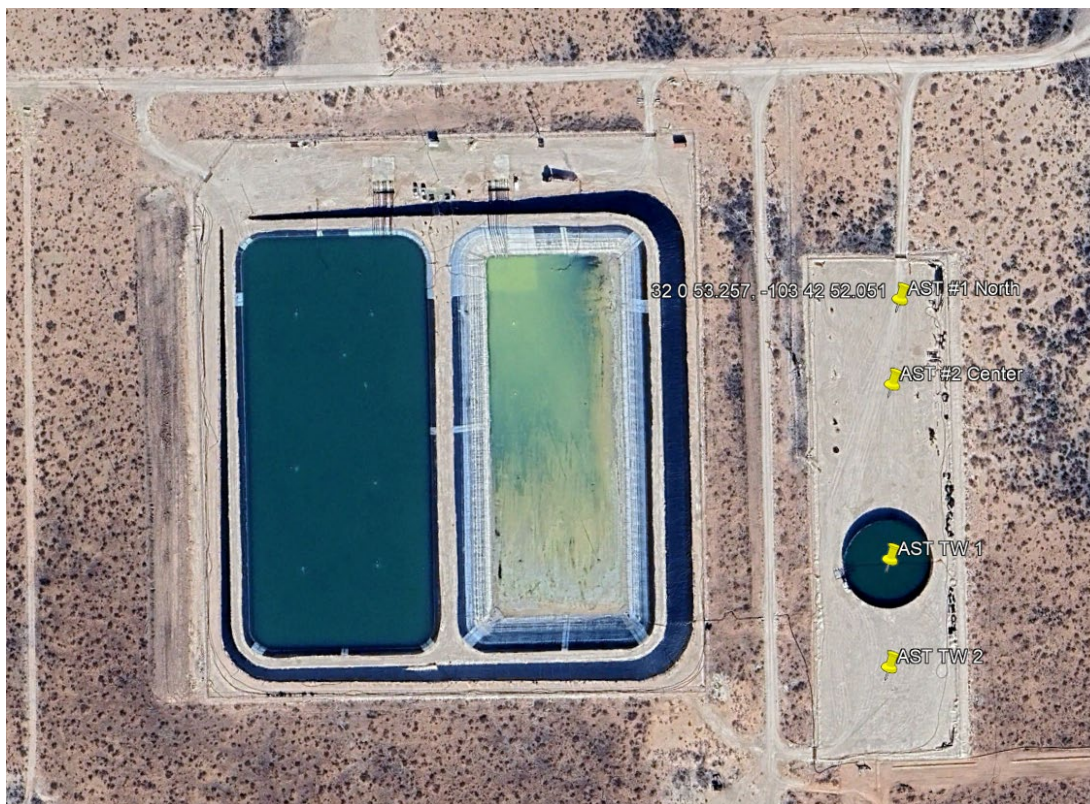
11.

OCD Representative Signature:  Approval Date: Oct 16, 2020

Title: Environmental Scientist OCD Permit Number: 1RF-454

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

APPENDIX C PHOTOGRAPHS OF SITE SAMPLING AND DESCRIPTION OF SAMPLING METHODS



The 12/20/2023 Google Earth image above shows the location of AST #1 and the location of AST #2 to the south. Latitude and longitude of AST #1 and #2 provided by ConocoPhillips correctly identify the AST locations on the south side of the working pad of the recycling facility. The images below provide latitude and longitude based upon the phone camera used for images. The crew who collected the samples used field evidence of the AST locations and the sampling data support the field observations used to identify the 5-point composite sample used to test each location (see email from Flex Services, below). While the phone longitude appears correct, the latitude of each image falls about 200 feet north of the actual location.

From: aaron garcia

To: Randall Hicks

Cc: Bobbi Jo Crain

Subject: Re: Cascade CP Superman - AST #1 and AST #2 Closure Sampling - I think your camera lat long is off - I need your help quickly please.

Date: Friday, May 9, 2025 8:49:15 AM

Attachments: image002.png

Randy,

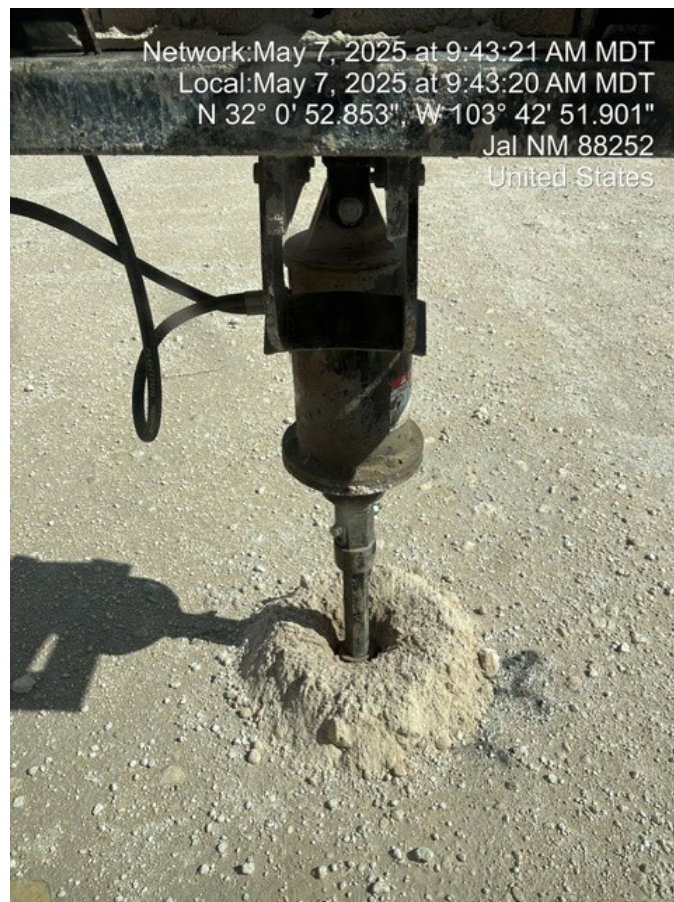
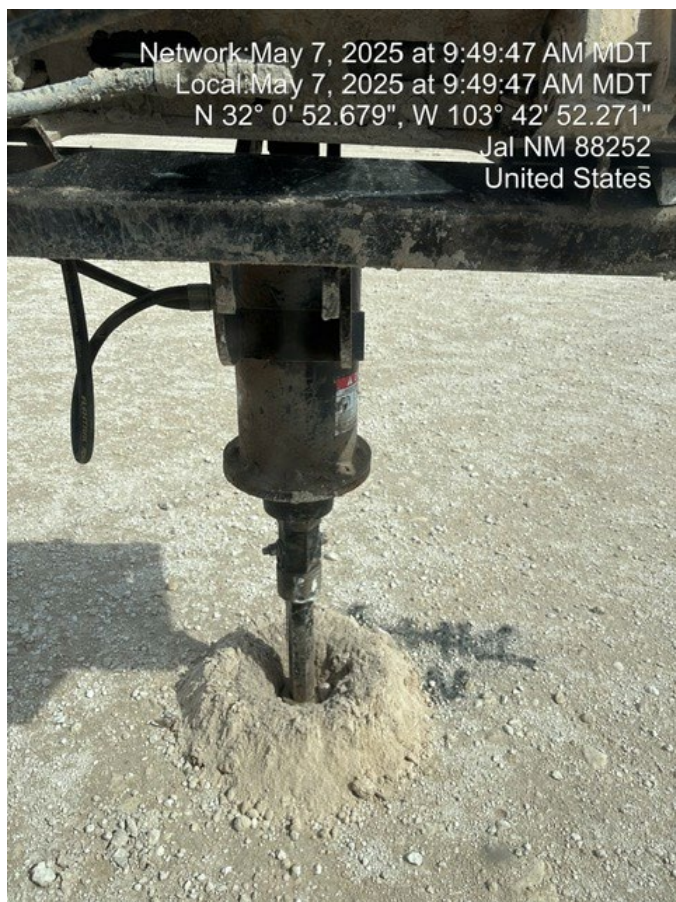
The crew that was dispatched to go out and do sampling at the Cascade CP Superman AST#1 & #2 examined the site pad for evidence such as AST compaction into the caliche pad and traffic markings around where the AST's were placed. The crew then collected samples on all 4 sides and center based on the AST positioning site data and observations. The area has bad cell service and this is the reason for the discrepancy in GPS data. All future endeavors will be done with Garmin handheld GPS units. Attached below are the photos of the pad site where the AST 1 & 2 were. If you have any questions please let me know.

Respectfully,

Aaron Garcia

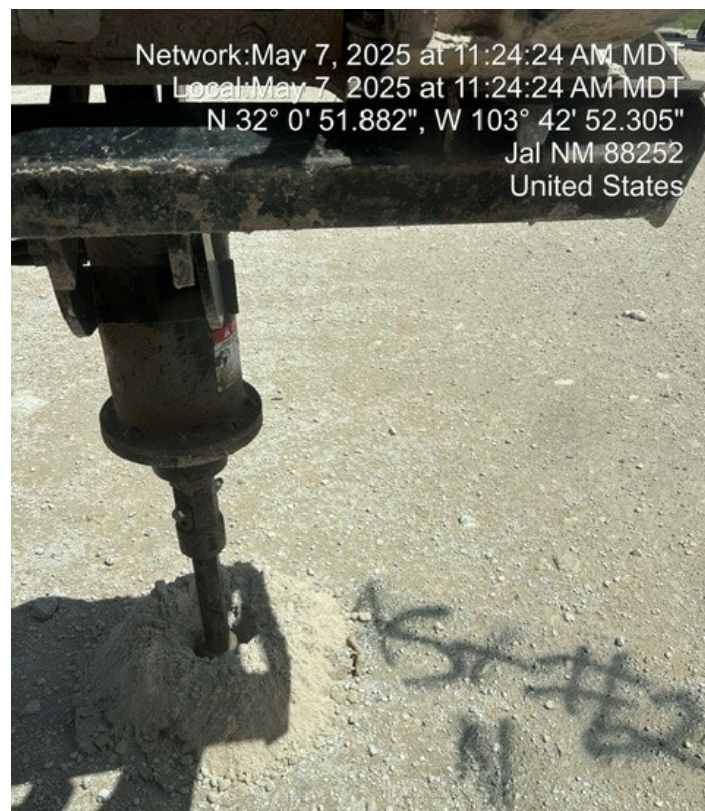
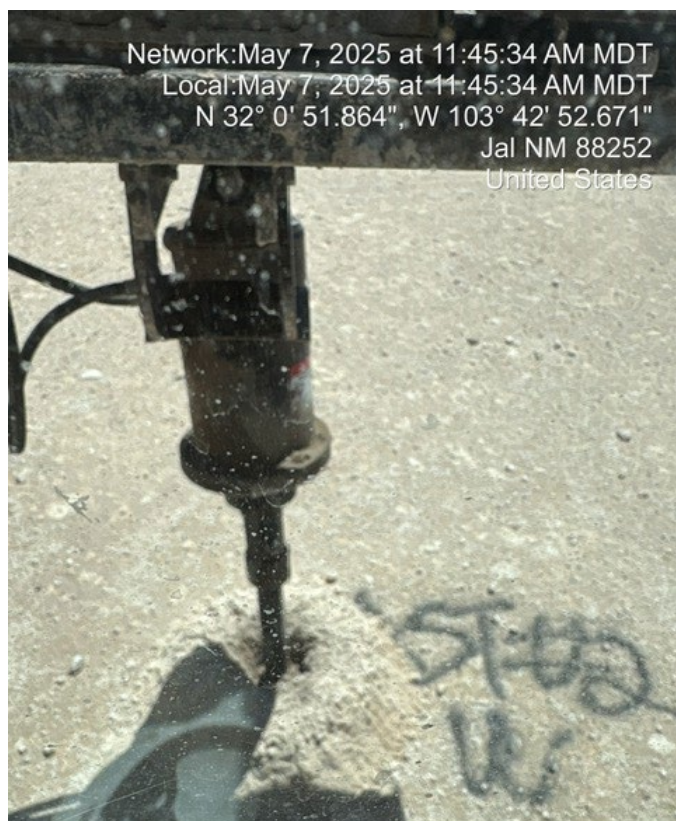
Flex Oilfield Services

AST #1 Photographs of Sampling Locations





Photographs of AST #2 Sampling Locations



R. T. HICKS CONSULTANTS, LTD.

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

Closure Sampling ASTs

- Flex Services is responsible as the excavator to ensure clearance from the NM811 “one-call” service for underground facilities location before any excavation begins.
- RT Hicks Consultants is responsible for the collection, storage, integrity, and transport of all of the samples.

PROCEDURE

The following procedure will be followed to collect samples using an auger mounted on a skid-steer, bobcat or equivalent:

1. Advance drill to 4 ft BGS and slowly remove auger from hole. Collect representative soil sample from stem of auger drill from
 - a. 0-4 ft depth interval
 - b. 0-2 foot depth
 - c. 2-4 foot depth.
2. Clean out boring and then return clean auger to the hole. Advance auger to approximately 4.3 ft BGS and slowly remove stem from hole. Collect soil sample from this interval.
3. Backfill hole with remaining cuttings using a shovel.
4. Repeat at each sample point marked by an “X” on the enclosed maps or as directed by Hicks Consultants.

SAMPLE MANAGEMENT

Obtain coolers and sample vials, etc. from Cardinal Labs in Hobbs.

Chain of Custody #1 should list only the following samples

- 5 samples of the depth interval 0-4 feet - 1 for each boring
- 5 samples of the 4.25 depth - 1 from each boring
- All 10 samples should be analyzed for Chloride, BTEX and GRO/DRO/MRO

Chain of Custody #2 should be for the second group of samples that will be “HELD FOR POSSIBLE ANALYSIS” and will include

- 5 samples of the depth interval 0-2 feet - one from each boring and
- 5 samples of the depth interval 2-4 feet - one from each boring
- All 10 samples should be analyzed for chloride only

Deliver samples on ice to Cardinal Labs in Hobbs.



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 475738

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 475738
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	The closure request, specifically to the ASTs, is approved with the following conditions of approval: • 1RF-454 - Zia Hills Superman Recycling Facility and Containment [fSL2029049637] will operate as originally permitted. • [217817] CONOCOPHILLIPS COMPANY will comply with all conditions previously approved for permit 1RF-454 - Zia Hills Superman Recycling Facility and Containment [fSL2029049637]. • No changes will be made to operations, maintenance and monitoring procedures, or closure procedures, other than the requested closure of the two ASTs associated with permit 1RF-454 - Zia Hills Superman Recycling and Containment Facility [fSL2029049637].	6/23/2025