3RF - 46 RINCON UNIT 2706-29O FACILITY ID [fCS1921338052] PERMIT CANCELED.

[372286] ENDURING RESOURCES JUNE 14, 2022



200 Energy Court Farmington, NM 87401 Field Office: 505.636.9720 | Main Office: 303.573.1222

June 2, 2022

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Permit Cancellation Request

Rincon Unit 2706-290 Recycling Facility

Permit No: 3RF-46

Rio Arriba County, New Mexico

To Whom it May Concern:

Enduring Resources, LLC (Enduring) is requesting the cancellation of Recycling Containment Permit 3RF-46 issued by the New Mexico Oil Conservation Division (NMOCD) on August 2, 2019. At this time, the facility and/or associated features have not been constructed. The attached photographs (which include the coordinates where the photographs were taken) provide proof that the facility was never constructed. Please contact the undersigned with any questions or comments regarding this cancellation request.

Thank you,

Chris Jones

Regulatory Specialist (Surface) Enduring Resources, IV LLC.

505.636.9723 - Office

505.497.1115 - Cell

Type of Facility:

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

X Recycling Containment*

■ Recycling Facility

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. For does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Enduring Resources IV, LLC (For multiple operators attach page with information) OGRID #: 372286 Address: 200 Energy Court, Farmington, NM 87401
Facility or well name (include API# if associated with a well): Rincon Unit 2706-290 (3RF-46)
OCD Permit Number: fCS1921338052 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr 0 Section 29 Township 27N Range 6W County: Rio Arriba
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Recycling Facility: Location of recycling facility (if applicable): Latitude 36.539671
Recvcling Containment: Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year) Center of Recycling Containment (if applicable): Latitude 36.539671 Longitude -107.490588 NAD83 For multiple or additional recycling containments, attach design and location information of each containment Liner type: Thickness 60 mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: 385,633 bbl Dimensions: L466' x W 356' x D 24'

4.	
Bonding: ☐ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells	s owned or
operated by the owners of the containment.)	, o ,, 110th 01
Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ (work on these facilities cannot commence to the contraction of the contract	ıntil handing
amounts are approved)	min bonding
Attach closure cost estimate and documentation on how the closure cost was calculated.	
Attach closure cost estimate and documentation on now the closure cost was calculated.	
Fencing: ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet ☐ Alternate. Please specify 8' chain link fence	
6. Signar	
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.	
<u>Variances</u> :	
Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, hur	nan 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	ed, 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 applicate examples of the siting attachment source material are provided below under each criteria.	ntion. Potential
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	☐ Yes ☒ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	□ NA
- Written confirmation or verification from the municipality; written approval obtained from the municipality	
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	☐ Yes 🏿 No
Within an unstable area.	
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map 	☐ Yes ☒ No
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	☐ Yes ☒ No
lake (measured from the ordinary high-water mark). - Topographic map; visual inspection (certification) of the proposed site	103 💆 110
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; aerial photo; satellite image	☐ Yes 🏻 No
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	☐ Yes ☒ No
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. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes 🏻 No

9. Recycling Facility and/or Containment Checklist:	
	sate by a check mark in the how that the decrements are attached
Instructions: Each of the following items must be attached to the application. Indic	ate, by a check mark in the box, that the accuments are attached.
Mr. n. i i i i i i i i i i i i i i i i i i	
Design Plan - based upon the appropriate requirements.	
Operating and Maintenance Plan - based upon the appropriate requirements.	
☐ Closure Plan - based upon the appropriate requirements.	
☐ 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 a	re true, accurate and complete to the best of my knowledge and belief.
Name (Print): Khem Suthiwan	Title: Regulatory Manager
Signature: Khem Suthiwan	Date: 06/06/2022
e-mail address: ksuthiwan@enduringresources.com	Telephone: (303)350-5721
e-mail address: Noath Wall & Strading Cood occo.	Telephone: (000)000 0721

Name (Print): Khem Suthiwan	_{Title:} Regulatory Manager	
Signature: Khem Suthiwan	Date: 06/06/2022	
e-mail address: ksuthiwan@enduringresources.com	Telephone: (303)350-5721	
OCD Representative Signature:	Approval Date:	
Title:	OCD Permit Number:	_
OCD Conditions		





Work Plan: Close the existing Recycling Containment Permit 3RF-46 issued by NMOCD on August 2, 2019. The existing approval contains the use of a in ground storage pond. In ground storage ponds are no longer consistent with Enduring Resources development plans. Enduring intends to close the existing approval and resubmit an application that implements the use of above ground storage tanks. This allows greater water storage with a lesser impact on the landscape as well as a timelier reclamation process following completion of development plans.

Timeline: Close Existing 3RF-46 early June 2022. Obtain new Recycling Containment Permit mid to late June. Execute construction mid-July (following the May 1 - July 15 Pronghorn Birthing Closure).

Received by OCD: 6/6/2022 1:39:32 PM



Photo #1: Northeast corner



Photo #3: Southwest corner



Photo #2: Southeast corner



Photo #4: Northwest corner



Received by OCD: 6/6/2022 1:39:32 PM



Photo #5: Center looking south



Photo #7: Center looking north



Photo #6: Center looking west



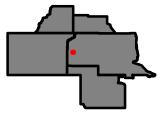
Photo #8: Center looking east



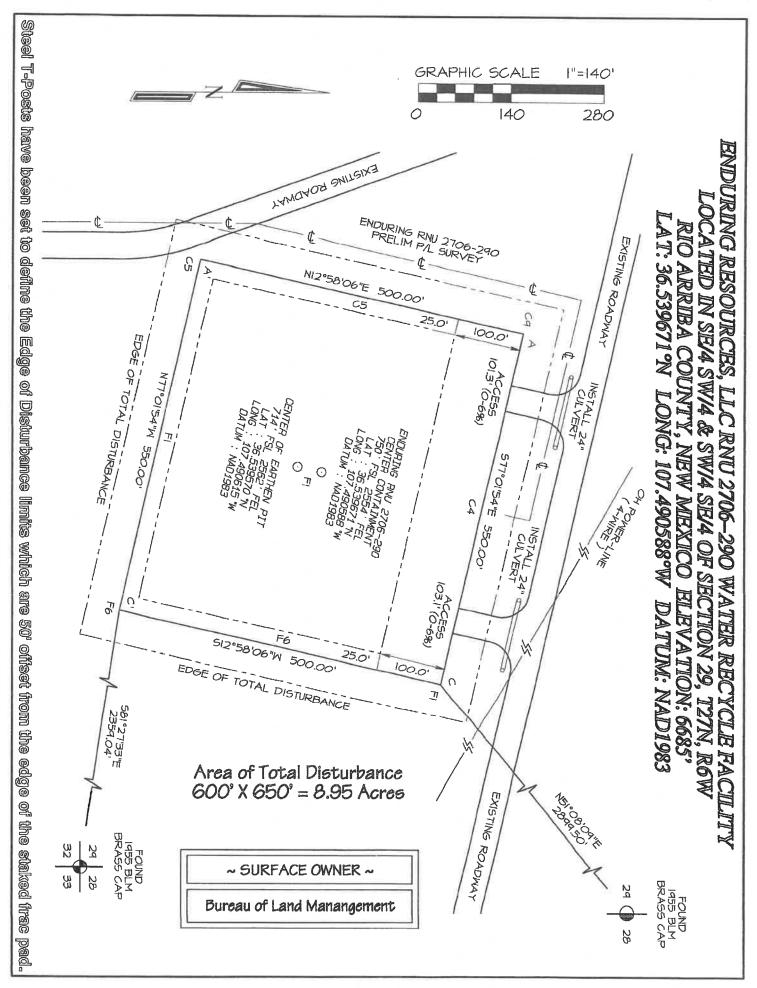
PHOTO POINT PADS Land Ownership BLM ROADS

Access, Dirt





Author: CJones | Date: 20220603



Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD **Sent:** Tuesday, June 14, 2022 2:55 PM

To: Chris Jones

Cc: Khem Suthiwan; Stuart Hyde

Subject: RE: [EXTERNAL] Enduring Resources C-147 Inquiry - Rincon Unit 2706-29O Recycling

Containment 3RF-46

Good afternoon Mr. Jones,

NMOCD has reviewed the permit cancellation request submitted by [372286] ENDURING RESOURCES on 06/03/2022 for 3RF - 46 RINCON UNIT 2706-290 FACILITY ID [fCS1921338052] in O-29-27N-06W, Rio Arriba, NM, that was never constructed. This permit has been canceled. If [372286] ENDURING RESOURCES, LLC wishes to use an AST containment at the same location, a new permit application will need to be uploaded to for review. Please let me know if you have any other questions.

Regards,

Victoria Venegas • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
(575) 909-0269 | Victoria.Venegas@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Chris Jones <CJones@enduringresources.com>

Sent: Monday, June 6, 2022 1:47 PM

To: Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us>

Cc: Khem Suthiwan < KSuthiwan@enduringresources.com >; Stuart Hyde < shyde@ensolum.com >

Subject: RE: [EXTERNAL] Enduring Resources C-147 Inquiry - Rincon Unit 2706-290 Recycling Containment 3RF-46

Good afternoon Mrs. Venegas,

Per your guidance, Enduring Resources has submitted Action ID 113460 Water Recycling C-147L (attached) in order to receive closure at a location that was never constructed. We intend to further follow your guidance and submit a new C-147L to seek approval for the same use at the same location but utilizing steel above ground storage tanks instead of a pond. Please let me know if you have any questions.

OCD Permitting

Home > Applications > Non-Fee Application

W3DGW-220603-C-147L

Application Information

Status:

Under OCD Review

Type:

[C-147] Water Recycle Long (C-147L)

Attachments:

C-147 CLOSURE KS.pdf (2478.4 Kb) C-147L, Closure Notice

Rincon Unit 2706 29O approved application 7.8.19.pdf (7421.4 Kb) C-147L

Reference:

Applicant Details

OGRID: 372286 Name: Chris Jones

Email:

cjones@enduringresources.com

Event Dates

Created On: 6/3/2022 10:51 AM Modified On: 6/6/2022 1:39 PM

Fee Information

Thank you

Chris Jones Regulatory Specialist (Surface) Enduring Resources IV LLC. 200 Energy Court Farmington, NM 87401 505.636.9723 - Office 505.497.1115 - Cell



From: Venegas, Victoria, EMNRD < Victoria.Venegas@state.nm.us>

Sent: Monday, May 2, 2022 10:01 AM

To: Chris Jones <CJones@enduringresources.com>

Cc: Khem Suthiwan < KSuthiwan@enduringresources.com>

Subject: RE: [EXTERNAL] Enduring Resources C-147 Inquiry - Rincon Unit 2706-290 Recycling Containment 3RF-46

Good morning Mr. Jones,

The permit issued by NMOCD was for a 358,633 bbl capacity earthen containment, with approved design specifications. If [372286] ENDURING RESOURCES, LLC wishes to use an AST containment instead of the inground containment, the permit for 3RF - 46 RINCON UNIT 2706-290 [fCS1921338052] will be canceled and a new permit application will need to be uploaded for review.

Please let me know if you have any additional questions. Regards,

Victoria Venegas ● Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division (575) 909-0269 | <u>Victoria.Venegas@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/



From: Chris Jones < <u>CJones@enduringresources.com</u>>

Sent: Friday, April 29, 2022 11:21 AM

To: Venegas, Victoria, EMNRD < <u>Victoria.Venegas@state.nm.us</u>> **Cc:** Khem Suthiwan < KSuthiwan@enduringresources.com>

Subject: [EXTERNAL] Enduring Resources C-147 Inquiry - Rincon Unit 2706-290 Recycling Containment 3RF-46

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

Good morning Victoria,

I am reaching out with a question regarding the OCD's position on the Rincon Unit 2706-290 Recycling Containment 3RF-46 (pCS1921337468 – OCD RCVD Date 08/02/2019). I have included the original approval as well as the BLM sundry associated with the C-147. If Enduring would like to change the manner in which water is stored on this location (using 60,000 bbl welded tanks instead of digging a pond) how would we make that change and get approval from NMOCD (I am also woring with the BLM on the change)? This pad was never constructed but Enduring would like to utilize it for our 2022 drilling program in the Rincon Unit. I would be happy to discuss over a quick call or email. Whatever is easier for you. Looking forward to working through this process with you.

Thank you

Chris Jones
Regulatory Specialist (Surface)
Enduring Resources, LLC.
200 Energy Court
Farmington, NM 87401
505.636.9723 – Office
505.497.1115 – Cell



Received by OCD: 6/6/2022 1:39:32 PM

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

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

Recycling Facility and/or Recycling Containment RCVD 8/2/19
Type of Facility: Recycling Facility Type of action: Permit Registration pCS1921337468 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.
Operator: Enduring Resources IV. LLC (For multiple operators attach page with information) OGRID #:372286 Address: 200 Energy Court, Farmington, New Mexico 87401
Facility or well name (include API# if associated with a well): Rincon Unit 2706-290
OCD Permit Number: (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr O Section 29 Township 27N Range 6W County: Rio Arriba
Surface Owner: Seederal State Private Tribal Trust or Indian Allotment
2. Recycling Facility:
Location of recycling facility (if applicable): Latitude 36.539671 Longitude 107.490588 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:
☐ 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 36.539671 Longitude 107.490588 NAD83
For multiple or additional recycling containments, attach design and location information of each containment
☐ Liner type: Thickness 60 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: 385.633 bbl Dimensions: L:466' X W: 356' X D 24'
Recycling Containment Closure Completion Date:

State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham Governor

Sarah Cottrell Propst Cabinet Secretary

Todd E. Leahy, JD, PhD Deputy Secretary Adrienne Sandoval, Division Director Oil Conservation Division



RE: Approval of Rincon Unit 2706-29O Recycling Containment 3RF-46

Mrs. Felix,

The New Mexico Oil Conservation Division (OCD) has approved the Rincon Unit 2706-290 Recycling facility and containment on August 2, 2019, with the following conditions of approval;

- Enduring will notify OCD District III at least 72 hours but no more than 1 week prior to the start of installation of the liner/Geotextiles
- Enduring will notify OCD District III at least 2 business days prior to covering the leak detection system with rocks or liner.
- Enduring will notify OCD District III prior to the commencement of the first initial filling of the pond.
- Enduring will check the leak detection system to verify that it is empty prior to the start of operations.
- Enduring will fill the containment to a level of 5' which cover the entire base of the containment and wait 24 hours and check the leak detection for liner integrity.
 - o IF water is found in the leak detection Enduring must follow 19.15.34.13 NMAC
 - o If no water is found in the leak detection Enduring may continue to fill the containment and will check the leak detection daily during the initial fill.

If you have any questions, please call the office.

Respectfully,

Cory Smith OCD District III

Environmental Specialist

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 u	ntil 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: 8 foot chain link fence	
A Thermac. I lead openly. a rece stand land source	
6.	
Signs:	
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, hum	an 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 requeste	d. include the
variance information on a separate page and attach it to the C-147 as part of the application.	a, morado mo
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 applica examples of the siting attachment source material are provided below under each criteria.	tion. Potential
examples of the slung muchment source material are provided below anaer each criteria.	
General siting	
Ground water is less than 50 feet below the bottom of the Recycling Containment.	☐ Yes ⊠ No
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ⊠ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	□ NA
- Written confirmation or verification from the municipality; written approval obtained from the municipality	
Within the area overlying a subsurface mine.	
- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	☐ Yes ⊠ No
Within an unstable area.	_
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☑ No
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	☐ Yes ⊠ No
lake (measured from the ordinary high-water mark). - 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. - Visual inspection (certification) of the proposed site; aerial photo; satellite image	☐ Yes ⊠ No
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.	□ v □ v-
US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes ☒ No

9. Recycling Facility and/or Containment Checklist:	
Instructions: Each of the following items must be attached to the application. It	dicate, 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)

Operator Application Certification:	
I hereby certify that the information and attachments submitted with this applica-	ation are true, accurate and complete to the best of my knowledge and belief.
Name (Print): Andrea Felix	Title: Regulatory Manager
Signature:	Date: <u>7-9-2019</u>
e-mail address: afelix@enduringresources.com	Telephone:505-386-8205
OCD Representative Signature:	Approval Date: 8/2/19
Title: Environmental Specalist	OCD Permit Number: 3RF-46
OCD Conditions	
Additional OCD Conditions on Attachment	

Enduring Resources IV, LLC 200 Energy Court Farmington, NM 87401



Rincon Unit 2706-290 Water Recycle Facility / Containment

Submitted by:
Andrea Felix, Regulatory Manager
July 8, 2019

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10. Attachment D- Migratory Bird Plan
11 Attachment F- Containment Engineered Design Drawings

1. Introduction

Operator	Enduring Resources IV, LLC		
OGRID	372286		
Facility Name	Rincon Unit 2706-290		
Facility Type	Recycling Facility & Recycling Containment		
Location	Section 29, T27N, R6W Rio Arriba County		
Surface Owner	Federal- BLM		

In accordance with NMAC 19.15.34, Enduring Resources IV, LLC (Enduring) requests the registration of a recycling containment and permit for a recycling facility. The facility and containments will be used to treat and recycle produced water for re-use in Enduring completion activities.

The surface owner of this location is the BLM and as part of the Rincon Unit POD (plan of development) BLM has been notified and has approved of the placement of this facility/containment on their lands as Enduring is the operator of the applicable oil and gas mineral rights. A copy of this C-147 application has been provided to the BLM.

2. Siting Criteria

The Rincon Unit 2706-29O facility / containment is located in accordance with 19.15.34.11 as documented below:

- Ground water is greater than 50 feet below the bottom of the containment
 A test well was drilled on 4-24-2019 per the attached GeoMat drilling Log which
 indicated a ground water depth greater than 85 feet.
 NM Office of the State Engineer iWATERS database search; USGS; Data obtained from
 nearby wells is shown on the aerial or topo maps provided.
- 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

The recycling facility / containment is not located within any incorporated municipal boundaries within a defined municipal fresh water well field covered by a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978, as amend.

Within the area overlying a subsurface mine

The recycling facility / containment is not located within an area overlaying a subsurface mine according to NM EMNRD Mining and Minerals Divisions database there are no subsurface mines in Section 29, T27N, R6W Rio Arriba County.

Page 1

> Within an unstable area

The recycling facility / containment is not located within an unstable area and is not on the side of a hill.

Within a 100-year floodplain. FEMA map

The recycling facility / containment is not located within a 100-year floodplain as shown on the aerial or topo maps provided.

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)

The recycling facility / containment is not located within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake as shown on the aerial or top maps provided.

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

The recycling facility / containment is not located within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application as shown on the aerial or topo maps provided.

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

The recycling facility / containment is not located within 500 horizontal feet of a spring or fresh water well used for domestic or stock watering purposes in existence at the time of initial application as shown on the aerial or topo maps provided.

> Within 500 feet of a wetland

The recycling facility / containment is not located within 500 feet of a wetland as shown on the aerial or topo maps provided.

3. Variance Request

Enduring is requesting a variance to 19.15.34.12.D(1) NMAC which states, "Recycling facilities shall be fenced with a four-foot fence that has at least four strands of barbed wire evenly spaced in the interval between one and four feet above ground level".

Enduring will install an eight (8) foot chain link fence with one strand of barbed wire over the top around the facility as requested by the surface owner to allow for greater protection to the facility than the requirements of 1.15.34.12.D(1).

4. Design and Construction Plan

In accordance with Rule 19.15.34.12 NMAC the following Design and Construction Plan describes Enduring's Rodeo Unit 511H recycling facility / containment and will assist Enduring personnel to ensure compliance with the minimum design and construction requirements as defined by NMOCD as outlined in 19.15.34.12 NMAC.

4.1 Confinement of Produced Water

The recycling facility / containment has been designed to ensure the confinement of produced water, the prevention of releases, and the prevention of overtopping due to wave action or rainfall.

4.2 Foundation Construction

The recycling facility / containment has been designed, and will be constructed, to have a properly constructed foundation with an unyielding base, free of rocks debris and sharp edges. Geotextile will be placed under the secondary liner in order to reduce stress-strain on it. A geo textile 10 OZ Standard Black Polyester will be placed under the secondary liner to reduce localized stress-strain that may otherwise compromise the liners integrity. The containment levee will be constructed with an inside grade no steeper than 2 horizontal feet to one vertical foot (2H:1V). The levee will have an outside grade no steeper than three horizontal feet to one vertical foot (3H:1V). The top of the levee shall be wide enough to install an 18 inch anchor trench and provide adequate room for inspection and maintenance.

4.3 Liner Construction

The recycling facility / containment is designed to have a 60 mil, HDPE textured Nominal Conductive liner as the primary liner. The primary and secondary liners will be resistant to UV light, petroleum hydrocarbons, salt and acidic/alkaline solutions and shall cover the bottom and sides of the pit including the minimum three (3) feet of freeboard. The secondary liner will consist of a 60 mil HDPE smooth Black Nominal Conductive liner that meets the conductivity requirement of 1×10^{-9} cm/sec. Liner material will be factory welded by the manufacturer by qualified personnel. The liner will be installed to minimize liner seams orienting them vertically minimizing seams in corners per 19.15.34.12a.5. The liner material will overlap a minimum of 4 inches. All welding and testing will be completed by qualified personnel.

External discharge or suction lines will not penetrate the liner. The liner will be protected from excessive hydrostatic force or mechanical damage, and the point of discharge and suction from the containment is specifically designed to eliminate damage from fluid forces.

4.4 Leak Detection System

The leak detection system between the upper and lower geomembrane liners consist of a 200-mil geo net to facilitate drainage. The leak detection system consists of a properly designed drainage and collection and removal system placed above the lower geomembrane liner in depressions and sloped to facilitate the earliest possible leak detection. A 30-foot-wide by 15-foot-long by 1-foot-deep depression will be constructed to

Page 3

allow for collection of any leaking liquid. A 2-inch and 6-inch PVC liner will be installed in between the primary and secondary liners from the top of the tank to the depression to allow for detection and removal of liquid. The leak detection system as modified is in compliance with 19.1.34.12

4.5 Top Soil

The top soil being stored is not within 100 feet of a continuously flowing watercourse or significant watercourse; within 200 feet from a lakebed, sinkhole, or playa lake; within 100 feet of a wetland or within a 100-year flood plain as shown on the aerial or topo maps provided.

4.6 Signage

The recycling facility / containment will have a sign no less than 12" by 24" with lettering not less than 2" in height in a conspicuous place near the recycling facility / containment. The sign will contain the operator's name, location of the recycling facility / containment by quarter-quarter or unit letter, Section, Township, Range and emergency phone numbers.

4.7 Fencing

The recycling facility / containment will be surrounded by an eight-foot chain-link fence and maintained in good repair. All gates associated with the fence will be closed and locked when responsible personnel are not onsite. The fencing will be kept in good repair, and inspected as part of the weekly inspection.

4.8 Wildlife Protection

Enduring Resources will install a bird deterrent system pursuant to the attached *Migratory Bird Mitigation Plan*. The recycling facility / containment will be inspected weekly for dead migratory birds, and will be reported.

5. Maintenance and Operating Plan

In accordance with Rule 19.15.34.13 NMAC the following Maintenance and Operating Plan describes Enduring's Rincon Unit 2706-290 recycling facility / containment and will assist Enduring personnel and contractors to ensure compliance with the requirements as defined by NMOCD as outlined in 19.15.34.13 NMAC

> Enduring will inspect the recycling facility / containment and associated leak detection systems weekly while the containment is holding fluids. An inspection log will be maintained by Enduring, and will be available for review upon request by the division.

Page 4

- Enduring will remove any visible oil from the surface of the recycling facility / containment upon discovery.
- > Enduring will maintain a minimum of three feet of freeboard in the containment at all times.
- The injection and withdrawal of fluids from the containment shall be accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes.
- ➤ If a leak is discovered in the containments primary liner above the liquid level in the containment, Enduring will repair the primary liner within 48 hours, or request an extension on repair within the 48-hour time limit.
- ➢ If a leak is discovered in the containments primary liner below the liquid level in the containment, Enduring will notify the division office of the leak, remove all fluids above the leak level, and repair the primary liner within 48 hours, or request an extension on repair within the 48-hour time limit.
- > The recycling facility / containment will be operated in such a way to prevent the collection of surface water.
- An oil absorbent boom or other device will be onsite to contain an unanticipated release.
- > The recycling facility / containment will not be used for the storage or discharge of hazardous waste.
- Enduring will consider the recycling containment to have ceased operations if less than 20% of the total fluid volume is used every six (6) months following the first withdrawal of produced water for use. Enduring will report cessation of operations to the appropriate division district office. If additional time is needed for closure, Enduring will request an extension from the appropriate division district office prior to the expiration of the initial six (6) month time period.

6. Closure Plan

In accordance with Rule 19.15.34.14 NMAC the following Closure Plan describes Enduring's Rincon Unit 2706-29O recycling facility / containment closure requirements.

- > Upon cessation of operations Enduring will remove all fluids within 60 days of the official date of cessation.
- ➤ Enduring will close the produced water containment within six (6) months from the official date of cessation. If Enduring will require more than 6 months to complete closure activities, an extension request will be filed prior to the six (6) month time limit for closure.

- Within 60 days of final closure completion, Enduring will submit a closure report on form C-147, including required attachments, to document all closure activities including sampling results. The closure report will certify that all information in the report and attachments are correct and that Enduring has complied with all applicable closure requirements and conditions specified in division rules or directives.
- > Closure activities will consist of the following:
 - a. Removal of all containment contents
 - b. Removal of liners and associated leak detection equipment for disposal at a division approved facility.
 - c. Removal of all equipment associated with the continued operation of the recycling containment.
 - d. Enduring will 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.
 - e. If the closure sample collected return results equal to or less than the parameters listed in *Table I* closure will be completed and backfill with begin with non-waste containing, uncontaminated, earthen material.
 - f. If the closure sample collected indicates concentration is higher that the values listed in *Table I*, Enduring will report the elevated sample values to the NMOCD, and additional delineation may be required at that time.

		Table I	
Closure Criteria for Recyclin Depth below bottom of containment to groundwater less than 10,000 mg/l TDS	Constituent Constituent	Method*	Limit**
51 feet - 100 feet	Chloride	EPA 300.0	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO÷DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
> 100 feet	Chloride	EPA 300.0	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

^{*} Or other test methods approved by the division.

^{**} Numerical limits or natural background level, whichever is greater.

^{[19.15.34.14} NMAC - N, 3/31/15]

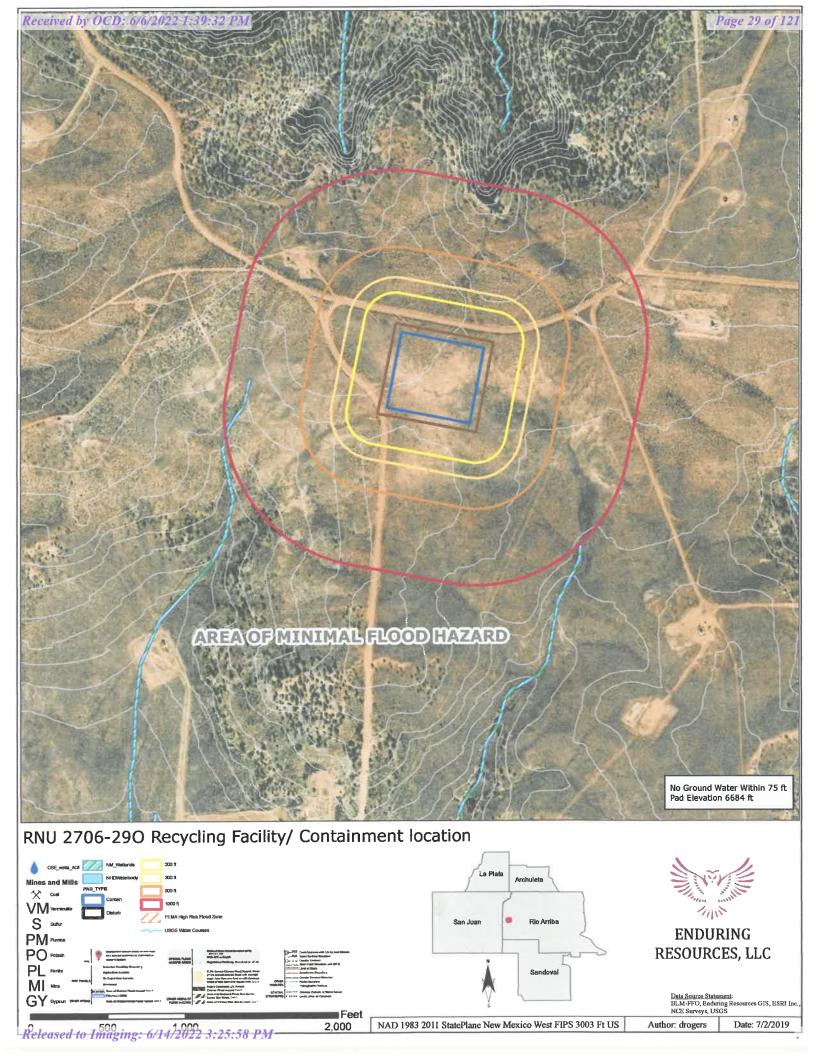
- Enduring will reclaim the containments location to a safe and stable condition that blends the surrounding undisturbed area. Tops soils and subsoils will be replaced to their original relative positions and contoured to achieve erosion control, long term stability and preservation of surface water flow patterns. The disturbed are will then be reseeded in the first favorable growing season following closure. The impacted surface area will be restored to the condition that existed prior to construction.
- Reclamation of all disturbed areas no longer in use shall be considered complete when all ground disturbing activities have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of predisturbance levels and total percent plant cover of at least seventy percent of predisturbance levels excluding noxious weeds.
- ➤ Soil cover and revegetation as required in 19.15.34.14 NMAC will be met in addition to the reclamation requirements by BLM as surface owner which provide for more stringent requirements.

Attachment A

Enduring Resources IV, LLC 200 Energy Court Farmington, NM 87401



Rincon Unit 2706-290
Water Recycle Facility / Containment

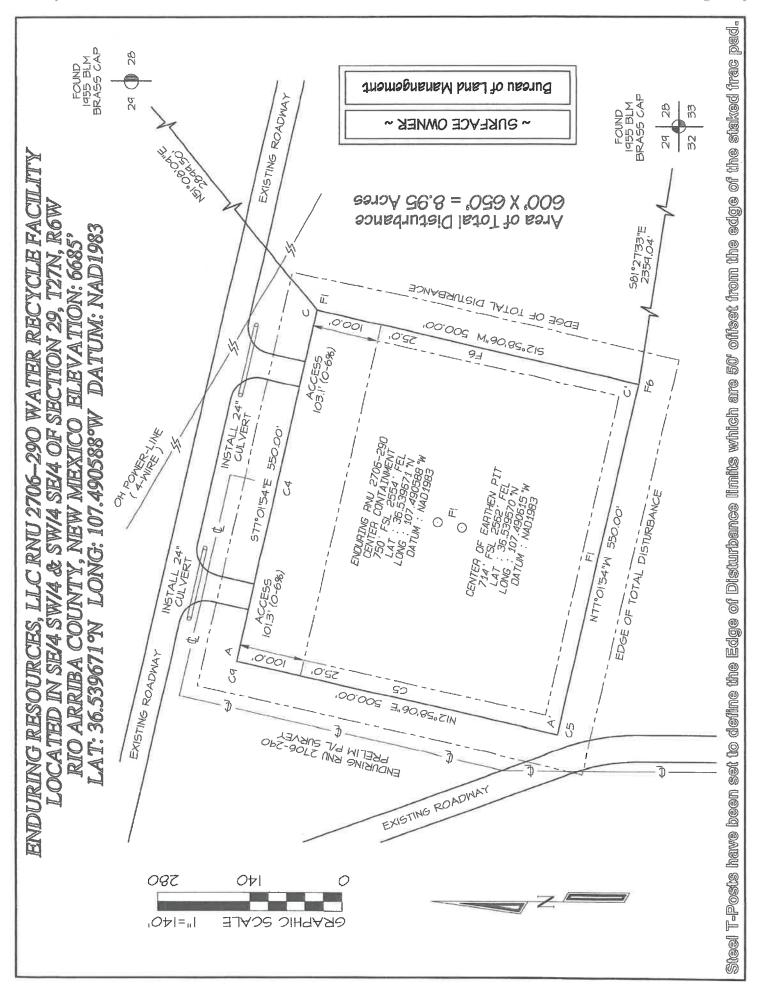


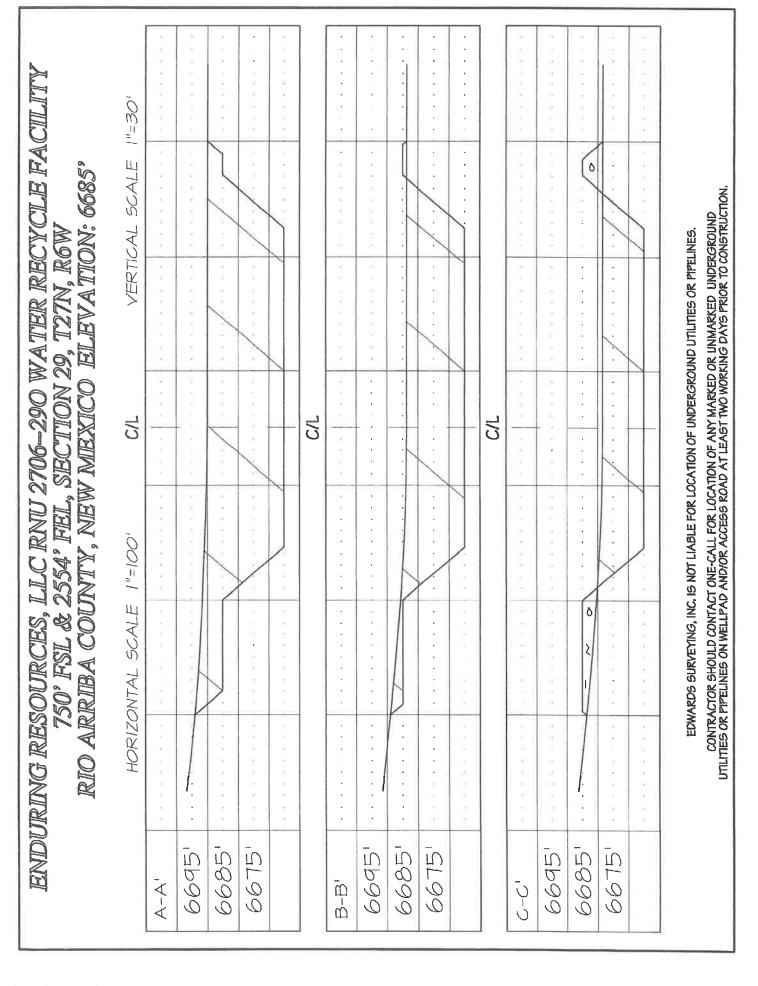
Attachment B

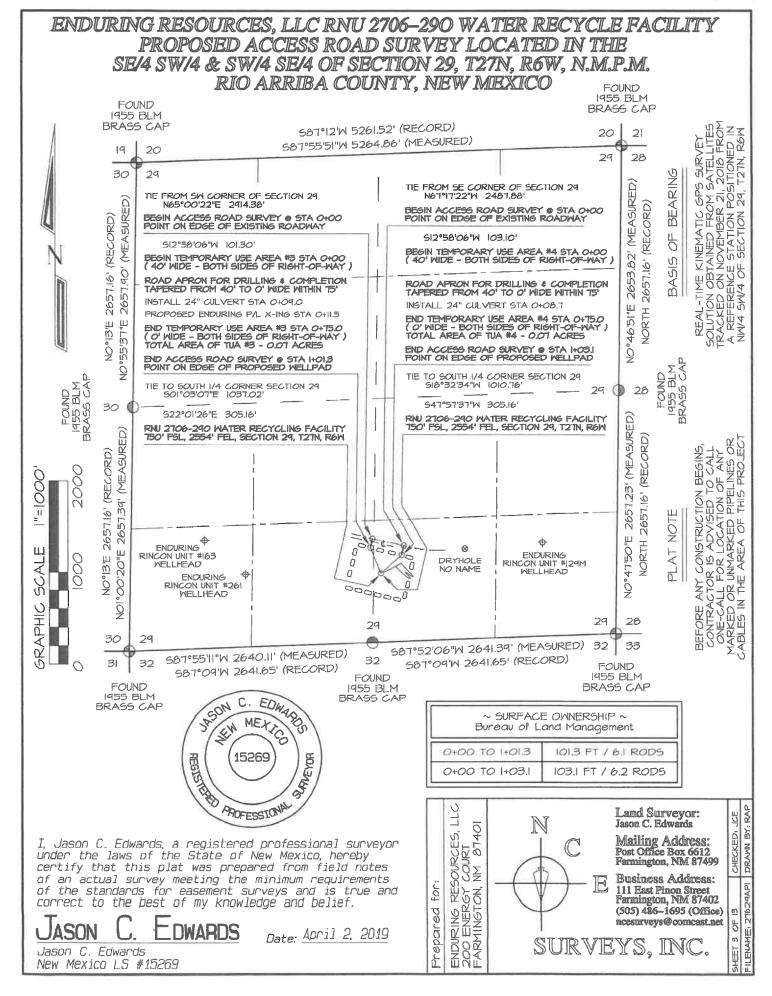
Enduring Resources IV, LLC
200 Energy Court
Farmington, NM 87401

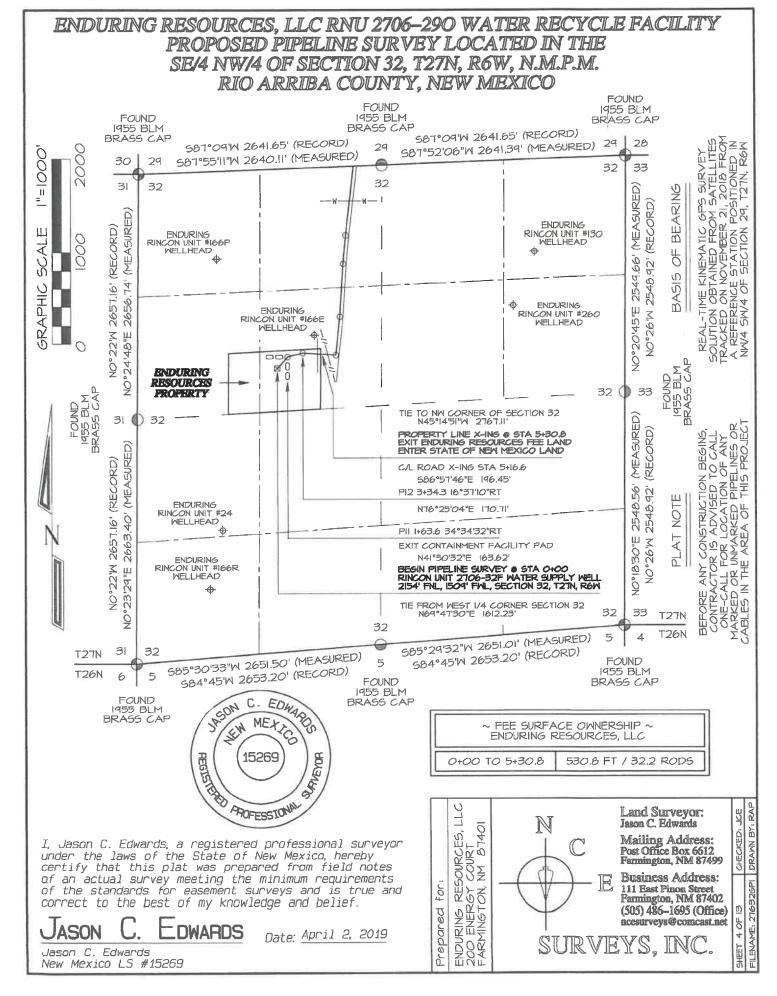


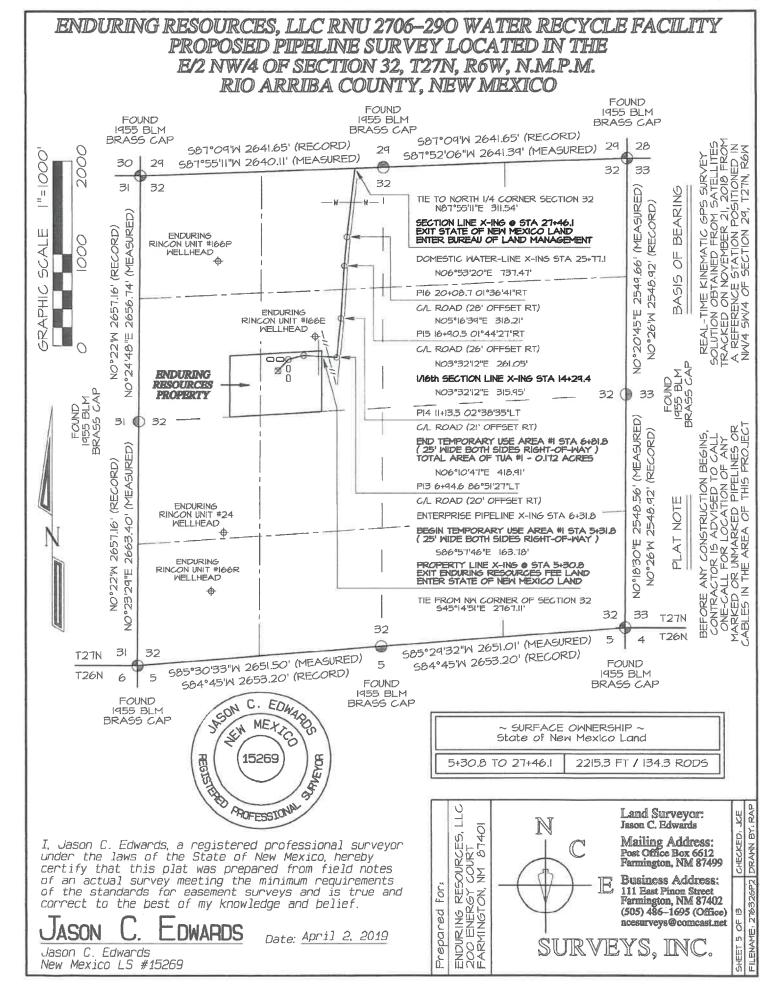
Rincon Unit 2706-290
Water Recycle Facility / Containment

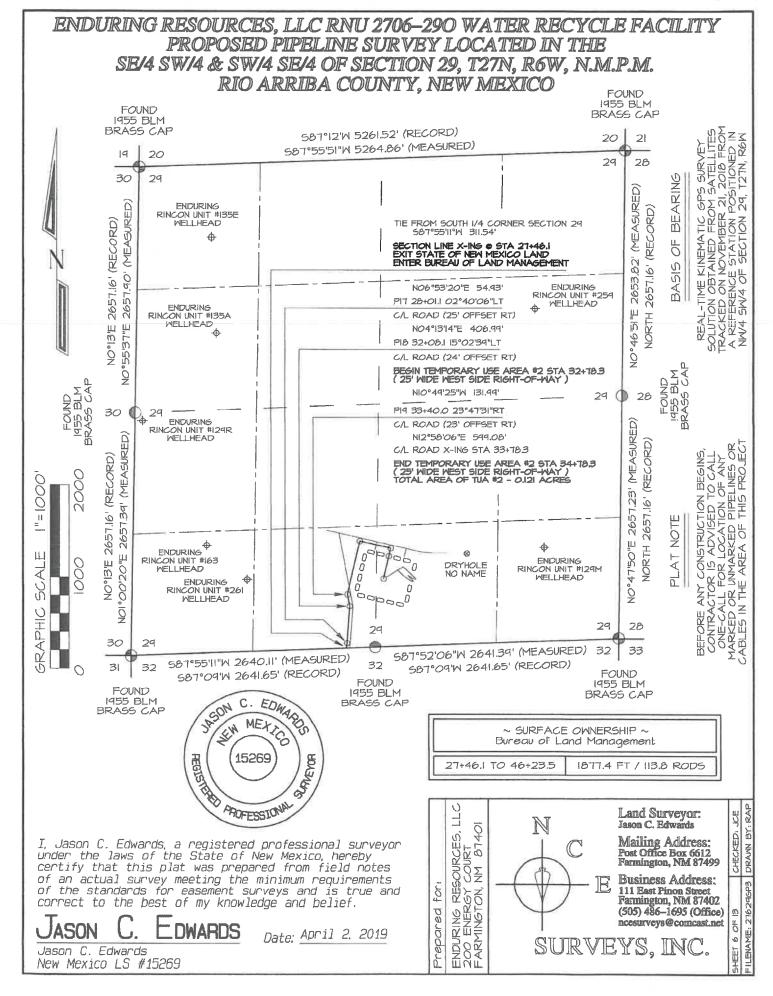


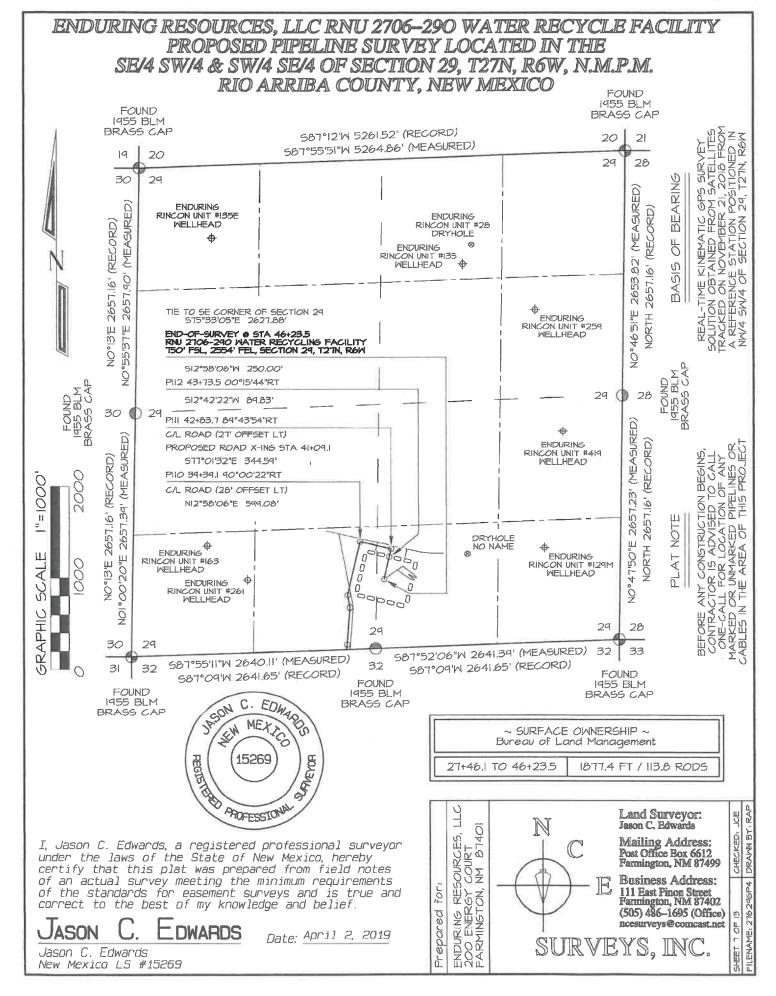




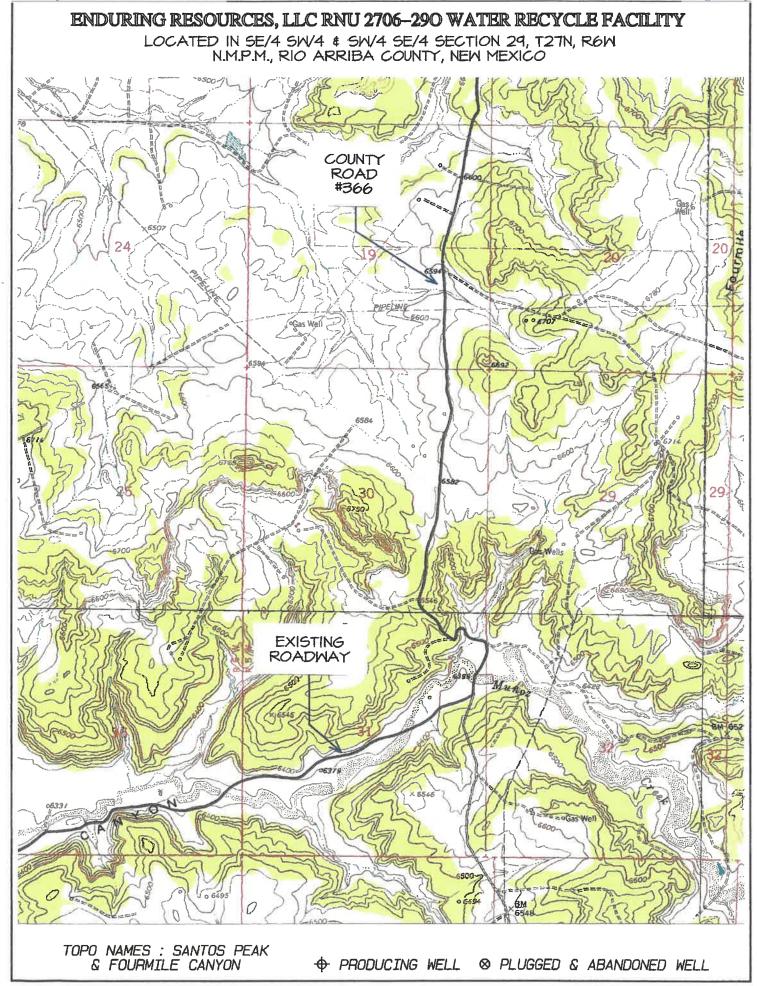








ENDURING RESOURCES, LLC RNU 2706-290 WATER RECYCLE FACILITY LOCATED IN SE/4 SW/4 & SW/4 SE/4 SECTION 29, T27N, R6W N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO 26 Gas Well # BM U.S. 6360 HIGHWAY #64 SCOBERNADOR GANTON COUNTY ROAD #366 TOPO NAME : FOURMILE CANYON ◆ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL



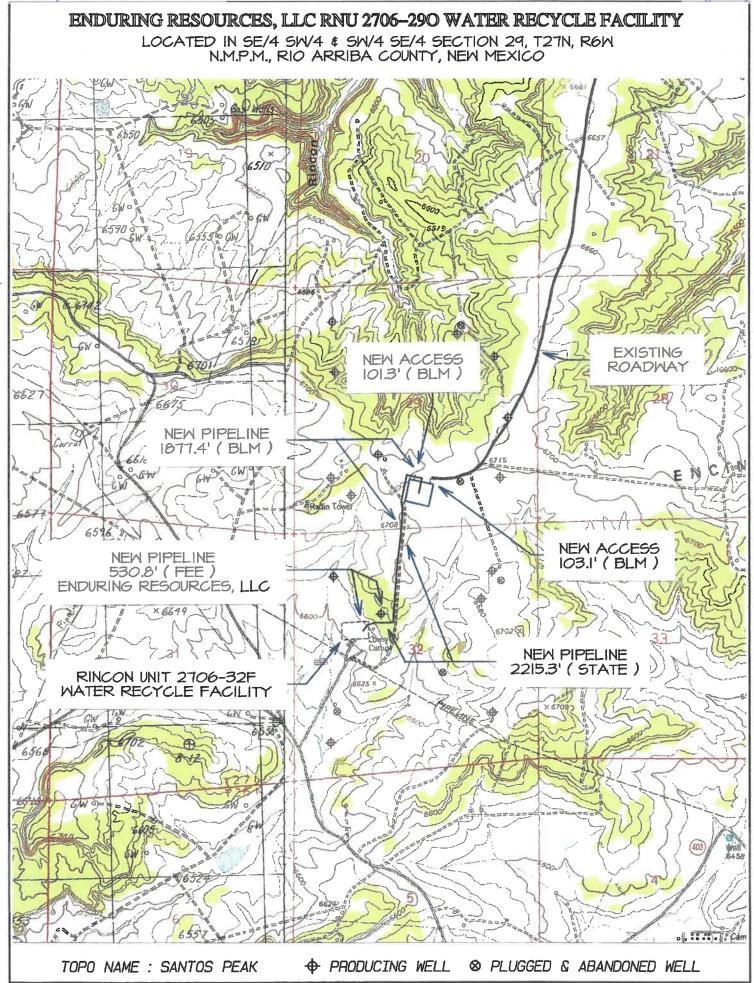
ENDURING RESOURCES, LLC RNU 2706-290 WATER RECYCLE FACILITY LOCATED IN SE/4 SW/4 \$ SW/4 SE/4 SECTION 29, T27N, R6W N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO EXISTING ROADWAY HUM! COUNTY

TOPO NAME : SANTOS PEAK

ROAD #492

◆ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

ENDURING RESOURCES, LLC RNU 2706-290 WATER RECYCLE FACILITY LOCATED IN SE/4 SW/4 & SW/4 SE/4 SECTION 29, T27N, R6W N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO COUNTY ROAD #492 EXISTING ROADWAY 668/ 6680 TOPO NAME : SANTOS PEAK ◆ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL



Directions from the Intersection of US Hwy 550 & US Hwy 64

in Bloomfield, NM to Enduring Resources, LLC RNU 2706-290 Water Recycle Facility

Located in SE/4 SW/4 & SW/4 SE/4 Section 29, T27N, R6W

N.M.P.M., Rio Arriba County, New Mexico

Latitude: 36.539671°N Longitude: 107.490588°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Easterly on US Hwy 64 for 36.8 miles to General American Road just beyond Gobernador School at Mile Marker 101;

Go Right (Southerly) on General American Road for 1.2 miles to fork in roadway;

Go Right (South-westerly) continuing on General American Road for 3.4 miles to 4-way intersection;

Go Straight (Southerly) continuing on General American Road for 1.1 miles to fork in roadway;

Go Right (South-westerly) along Munoz Wash for 4.3 miles to 4-way intersection;

Go Straight (South-westerly) continuing across Carrizo Wash for 0.3 miles to fork in roadway;

Go Left (South-easterly) which is straight onto County Road #492 for 0.4 miles to fork in roadway;

Go Right (Southerly) continuing on County Road #492 for 1.4 miles to fork in roadway;

Go Right (Northerly) exiting County Road #492 continuing uphill on existing roadway for 0.6 miles to fork in roadway;

Go Left (South-westerly) for 0.8 miles to fork in roadway;

Go Right (Westerly) which is straight for 0.4 miles to fork in roadway;

Go Left (Southerly) which is straight for 2.1 miles to begin proposed access on left-hand side of roadway which continues for 103.1' to staked RNU 2706-29O Water Recycle Facility.

Attachment D

Enduring Resources IV, LLC
200 Energy Court
Farmington, NM 87401



Rincon Unit 2706-290
Water Recycle Facility / Containment

Enduring Resources, LLC's

Recycling Containment Migratory Bird Mitigation Plan

Enduring Resources, LLC (Enduring) is proposing this Migratory Bird Mitigation Plan (Mitigation Plan) in compliance with the New Mexico Oil Conservation Division (NMOCD) Rule 19.15.34.12.E Enduring shall ensure that the recycling containment is protective of wildlife by implementing the following proposed Mitigation Plan. Enduring employees will inspect the containment weekly for and, within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring. This Mitigation Plan will utilize a combination of visual and audio deterrents to discourage wildlife, particularly birds and bats, from the recycling containment in order to mitigate potential impacts. This Mitigation Plan would be implemented while the Recycling Containment is active and in use, as to not desensitize birds to the deterrents.

The following mitigations will be implemented to reduce any wildlife impacts that may occur from the Recycling Containment:

- The following visual bird deterrents will be installed (Appendix A):
 - Bird-X Prowler Owl decoys will be installed at all four corners of the Containment.
 - Scare-Eye Balloons will be installed along the perimeter of the Containment.
- A Bird-X BroadBand PRO System will be installed at the Containment facility. It utilizes sonic (naturally-recorded bird destress calls & predator cries) to deter birds; as well as, ultrasonic highfrequency sound waves to deter bats. Bird propane cannons were avoided, so as not to disturb other wildlife species.
- The containment will be inspected on a monthly basis when water is present in the
 containment. All inspectors will insure the containment is receiving only filtered produced
 water with no hydrocarbons, as well as being trained to inspect the premises for, and
 respond to any wildlife incident, should it occur.
- Inspection will include:
 - An inspection of the filtration system and all visual and audio deterrents to insure they are in working order and functioning properly.
 - A thorough search of the entire containment facility, and just beyond, for the presence of any wildlife (entrapped, injured, dead, etc.).
- In the event a wildlife incident should occur, James McDaniel with Enduring will be
 contacted immediately and he will notify the appropriate wildlife agency and division
 district office. Enduring, appropriate wildlife agency, and division district office will then
 work collaboratively to address the incident appropriately to insure the incident does not
 reoccur.

Appendix A: Visual and Audio Deterrents



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Bird Wire

Visual Scares and Fredator Decays.

Bird Gels, Taste Aversions, & OvoControl® P

For Sangbird Lovers

Remote Control Drone

Recal Products

Accessories







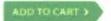








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- Option to add 3 Visual Scares to package for added efficacy
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- 4 speakers included 4 independent speakers with 100 ft, of wire each
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Shock Track Systems

Bird Balls

Bird Wire

Visual Scares and Fredator

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Centers · Predator del replice, life-side del

Owl scare repels past birds & other small animals

Always-moving "hunting" posture keeps airds away

4-foot unregspen & accurate markings

· Safe, humane, non-toxic, silent

. Covers up to 6,000 sq. ft.

Prowler Owl

- Proven Visual Scare
- Saves Money on Cleanup & Repair
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Decades-proven visual deterrent, improved with dynamic realism & movement! Scare away birds & small pests with this predator replica of the most-feared serial predator, the Great Horned Owl, which catches & eats nearly everything it can catch.

- Lifelike, wind-catching design incleases effectiveness.
- · Accurate plumage & hunting fight pose
- inomidating glassy eyes "follow" pests.
- · Flexible wings move & flap in the wind realistically

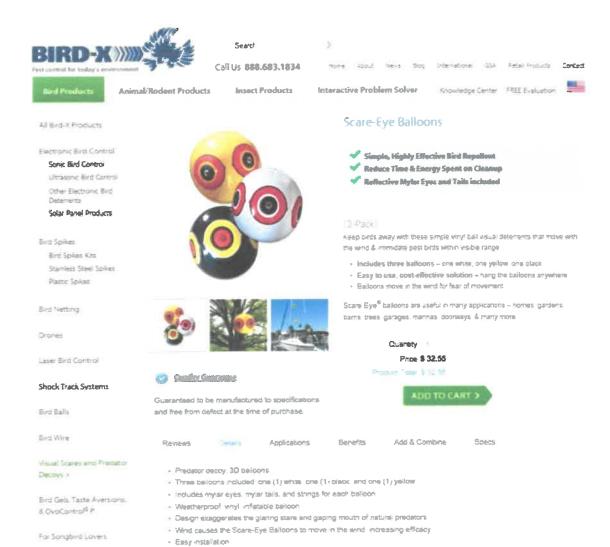
Without movement, an owi scare is useless - don't be fooled by imitations that are invnotile! Install Prowler Owl decoy in any open outdoor area where pest birds or small critters are a problem

Quantity 1

Pros \$ 39.25

Add & Combine

Not 1 5 30 25

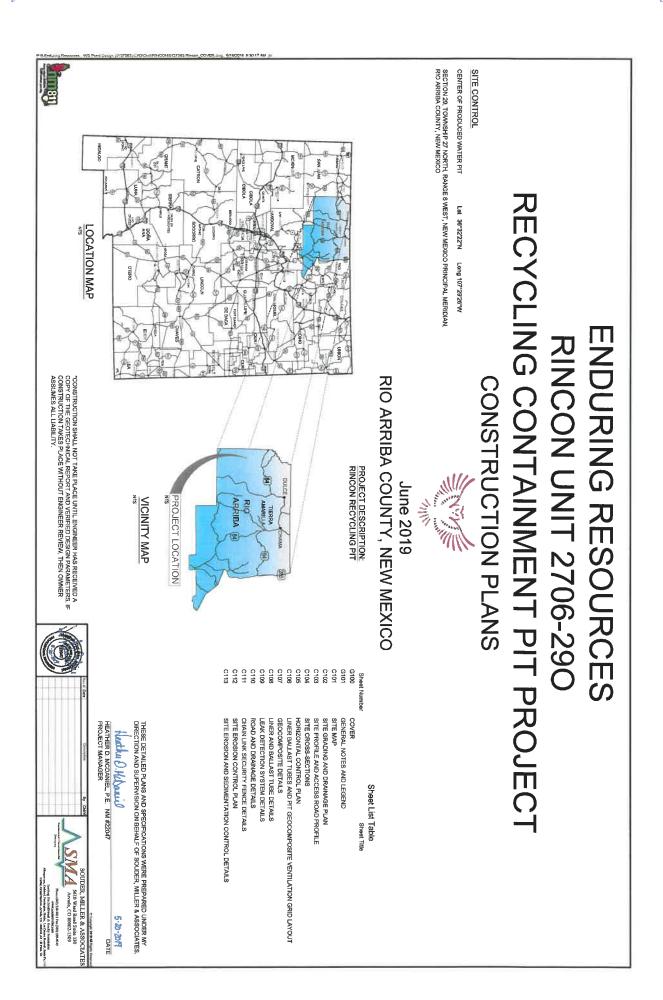


Attachment E

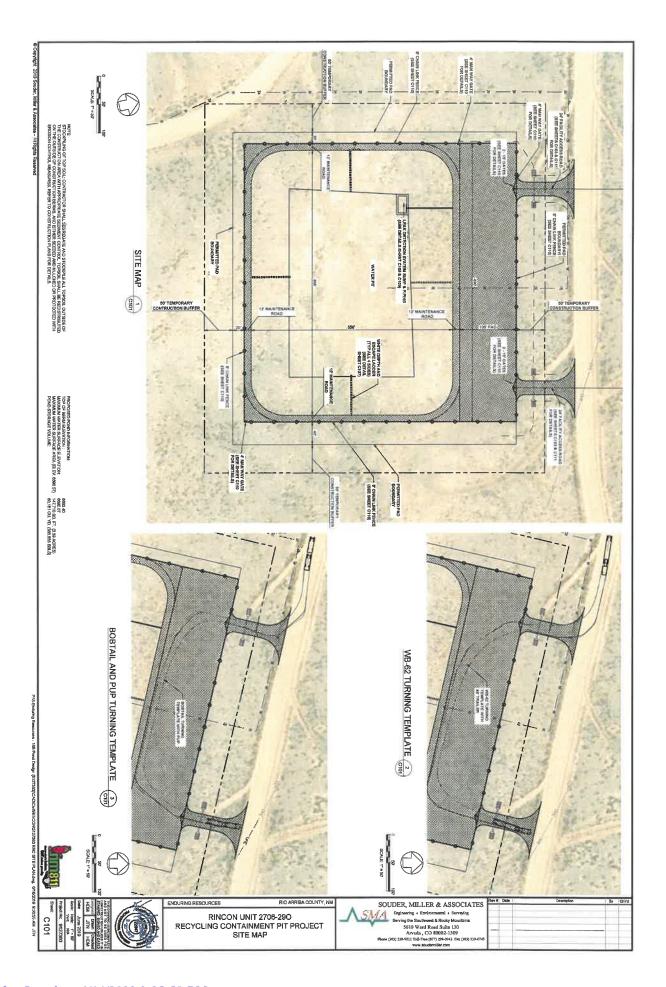
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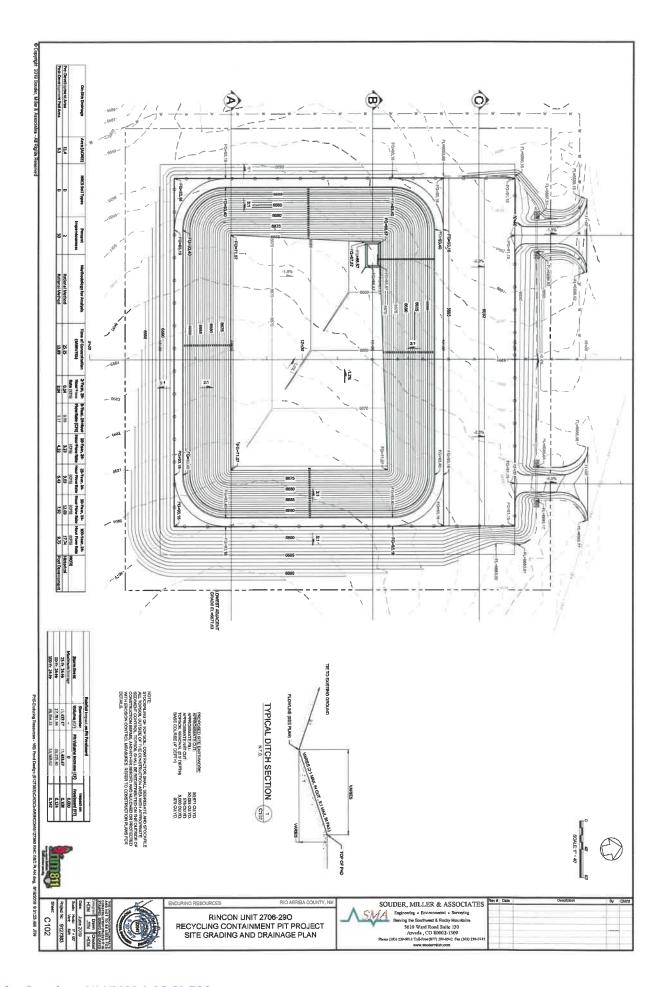


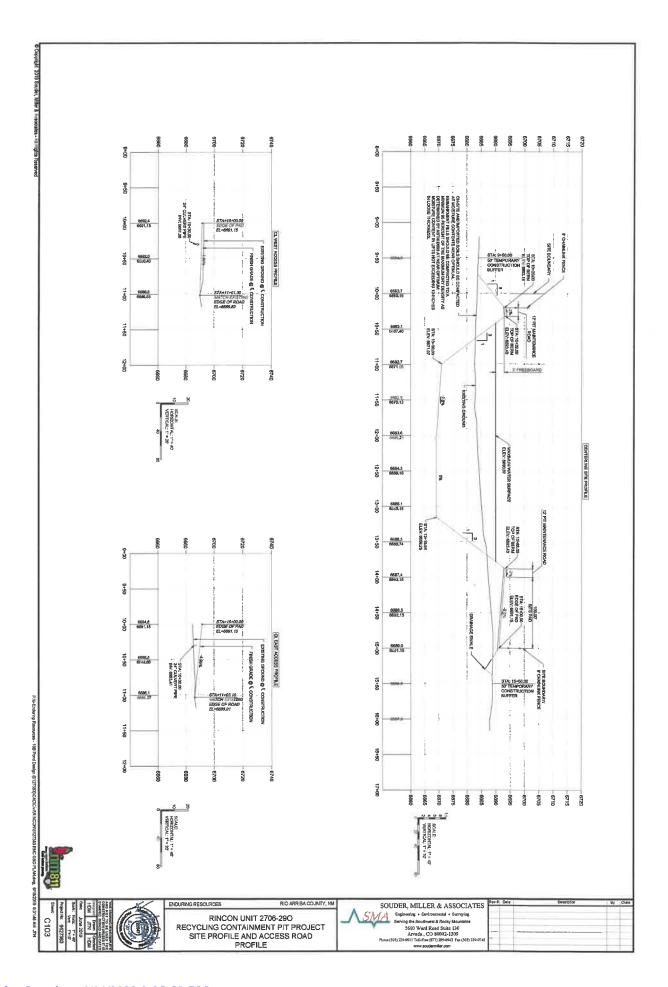
Rincon Unit 2706-290
Water Recycle Facility / Containment

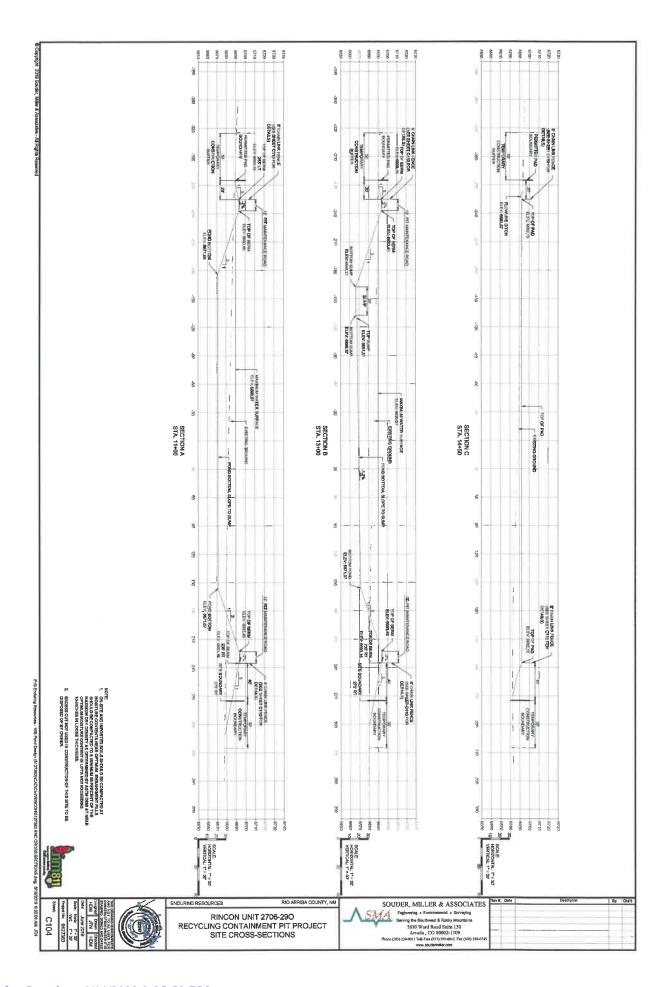


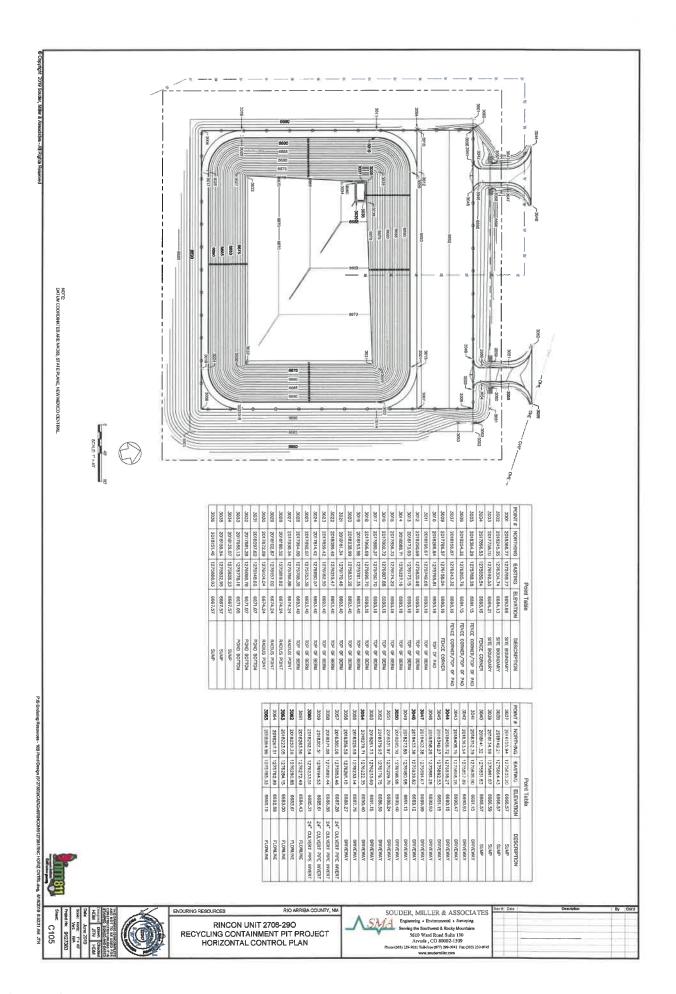
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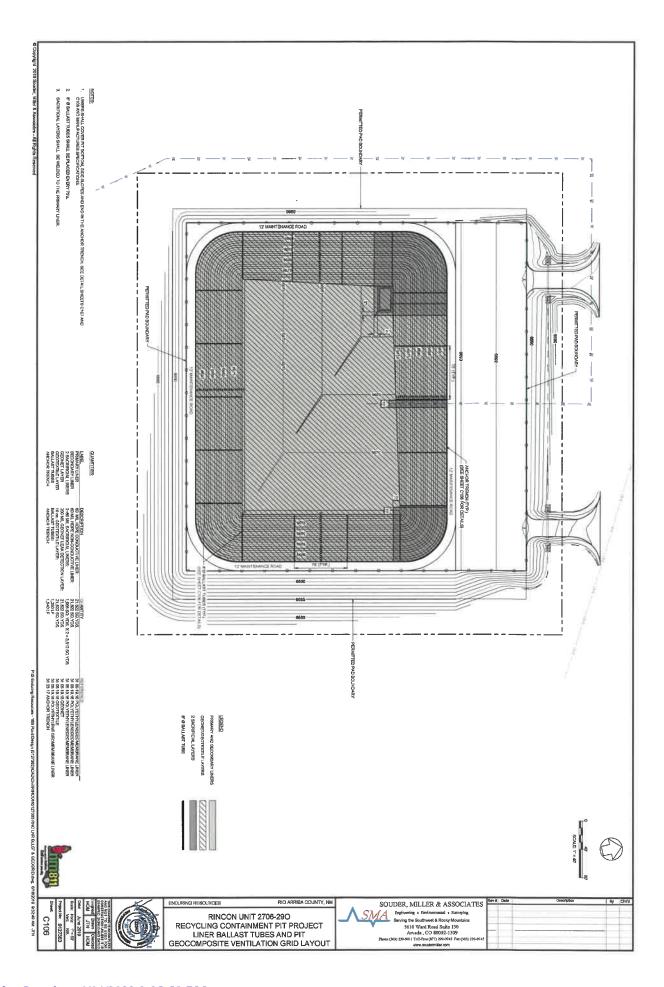


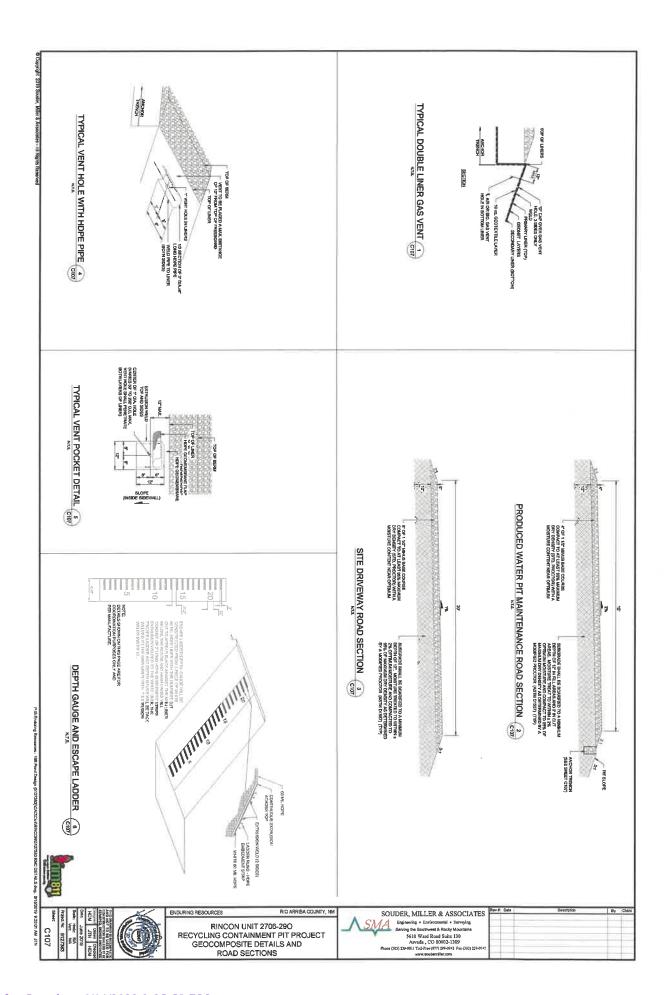


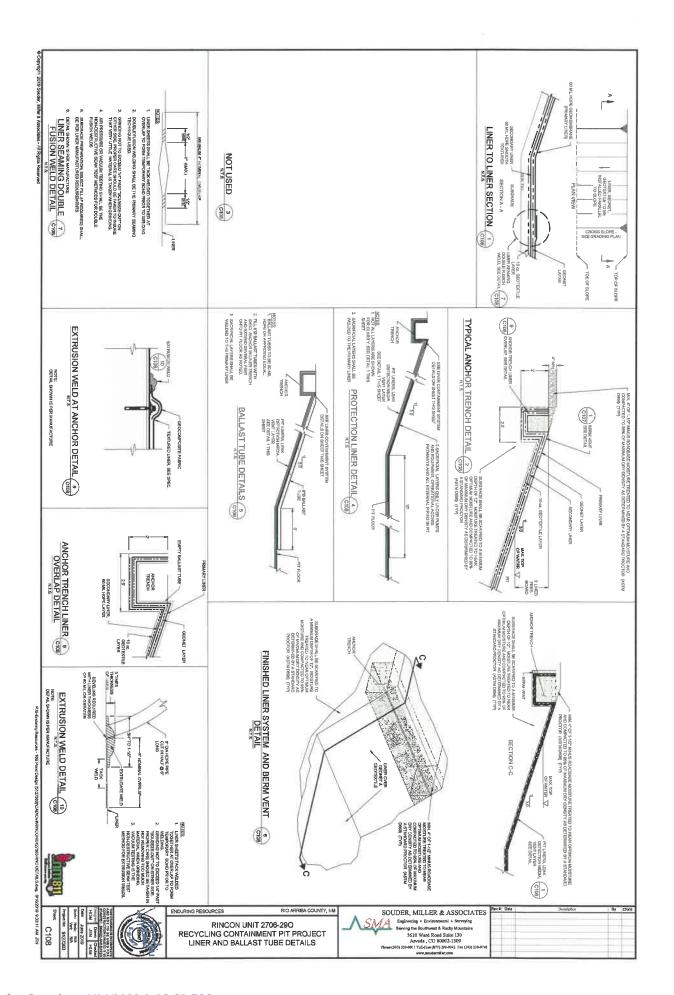


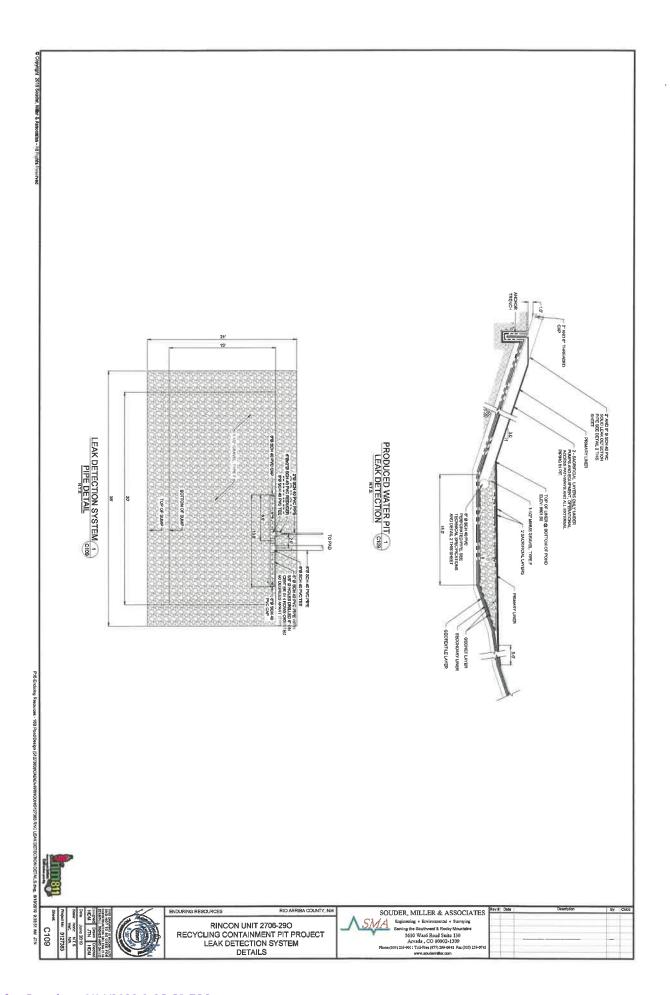


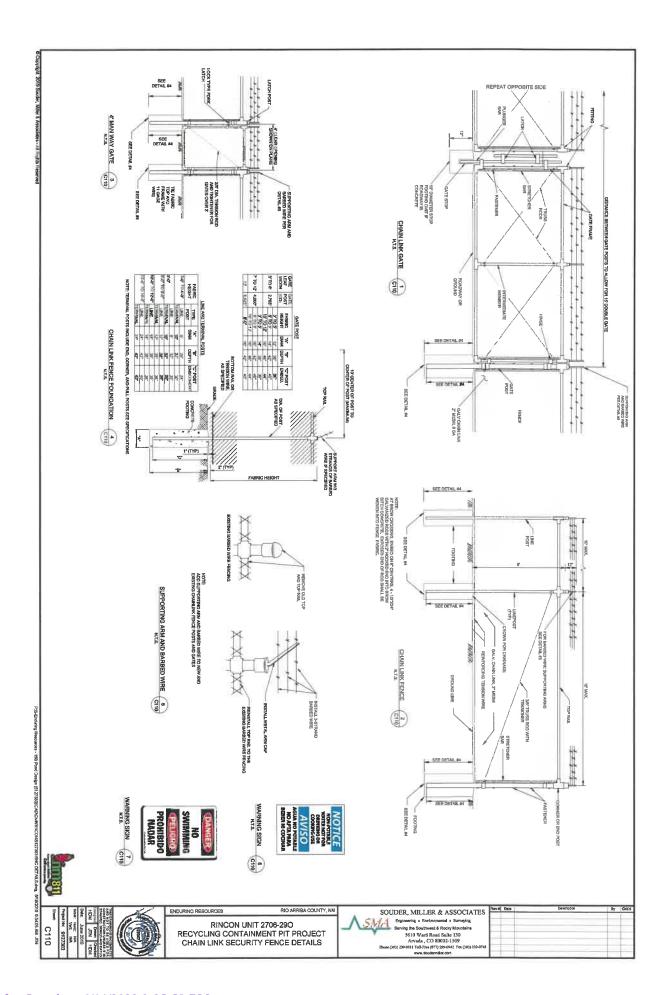


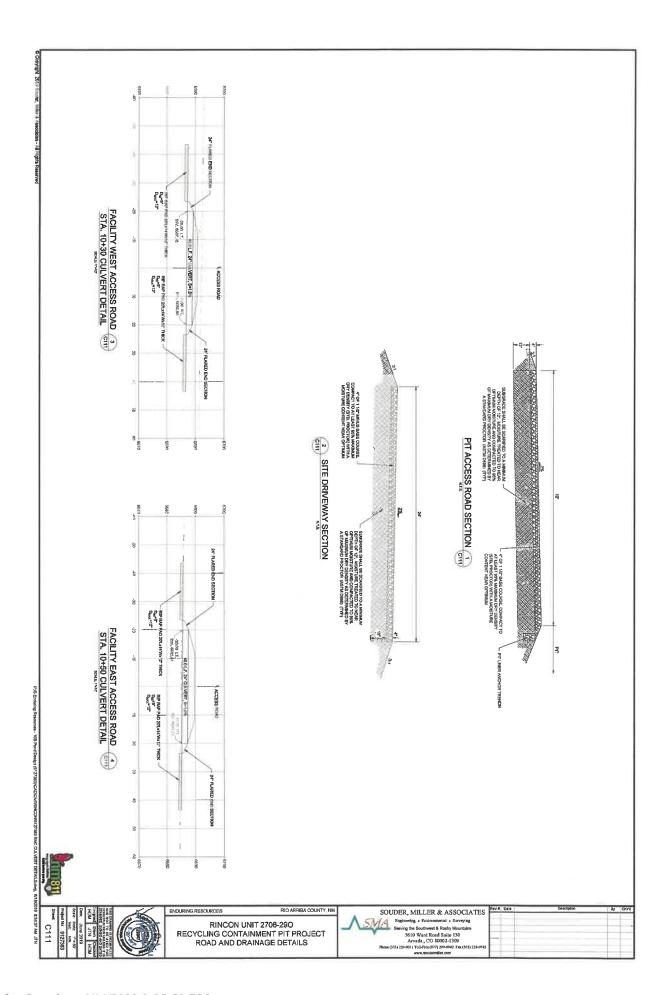


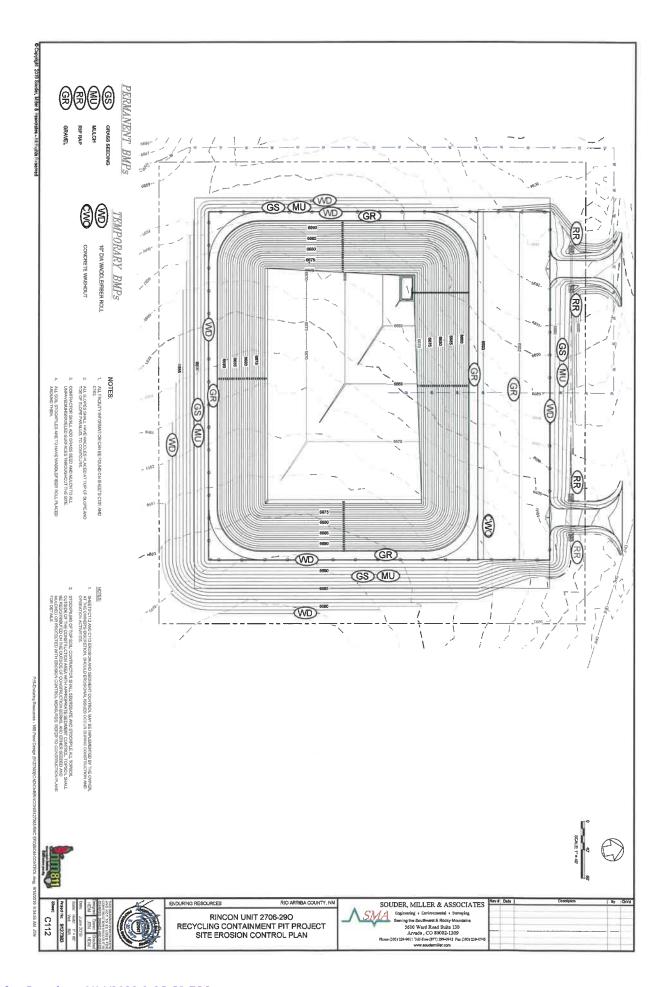


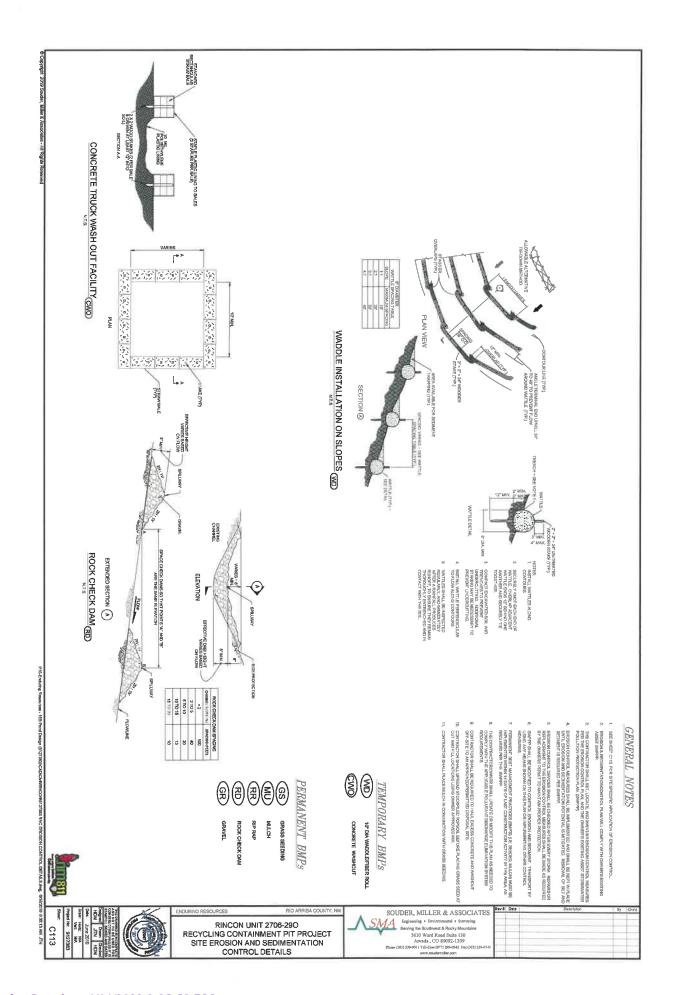












Attachment C

Enduring Resources IV, LLC 200 Energy Court Farmington, NM 87401



Rincon Unit 2706-290
Water Recycle Facility / Containment



GEOTECHNICAL ENGINEERING REPORT RINCON RNU 2706-290 WATER RECYCLE FACILITY RIO ARRIBA COUNTY, NEW MEXICO

Submitted To:

Eric Stevens, PE
Enduring Resources
200 Energy Ct.
Farmington, NM 87401

Submitted By:

GEOMAT Inc. 915 Malta Avenue Farmington, New Mexico 87401

May 20, 2019

GEOMAT Project 192-3247



May 20, 2018

Eric Stevens, PE Enduring Resources 200 Energy Ct. Farmington, NM 87401

RE: Geotechnical Engineering Study
Rincon RNU 2706-290 Water Recycle Facility
Rio Arriba County, New Mexico
GEOMAT Project No. 192-3247

GEOMAT Inc. (GEOMAT) has completed the geotechnical engineering exploration for the proposed Rincon RNU 2706-290 Water Recycle Facility (Rincon III)) to be located in Rio Arriba County, New Mexico. This study was performed in general accordance with the requests made by Enduring Resources (Enduring) for supplemental exploration at the facility's relocated site through email and phone communications during April and May of 2019.

The results of our engineering study, including the geotechnical recommendations, site plan, boring records, and laboratory test results are attached. Based on the geotechnical engineering analyses, subsurface exploration and laboratory test results, the pond could be constructed as a partially incised with embankments as proposed. Other design and construction details, based upon geotechnical conditions, are presented in the report.

We have appreciated being of service to you in the geotechnical engineering phase of this project. If you have any questions concerning this report, please contact us.

Sincerely yours,

GEOMAT Inc.

Robert "Bob" Flegal, P.E.

Senior Engineer

Matthew J. Cramer, P.E.

President

Copies to: Addressee (1); H. McDaniel, P.E., C.F.M. @ SMA (both via E-mail)

Geotechnical Engineering Report RNU 2706-290 WRF **GEOMAT Project No. 192-3247**

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Geotechnical Engineering Report RNU 2706-290 WRF **GEOMAT Project No. 192-3247**

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APPENDIX A

Site Plan
Logs of Borings
Unified Soil Classification
Drilling and Exploration Procedures

APPENDIX B

Laboratory Test Results Laboratory Test Procedures Direct Shear Results Slope Stability Figures

APPENDIX C

Important Information About This Geotechnical Engineering Report (Taken From GBA)

GEOTECHNICAL ENGINEERING REPORT RINCON RNU 2706-290 WATER RECYCLE FACILITY RIO ARRIBA COUNTY, NEW MEXICO GEOMAT PROJECT NO. 192-3247

INTRODUCTION

This report contains the results of our geotechnical engineering exploration for the proposed Rincon RNU 2706-290 Water Recycle Facility (Rincon III) to be located in Rio Arriba County, New Mexico, as depicted on the Site Plan in Appendix A of this report.

The purpose of these services is to provide information and geotechnical engineering recommendations about:

- subsurface soil conditions
- groundwater conditions
- lateral soil pressures
- earthwork

- slopes for pond walls and embankments, and
- drainage.

The opinions and recommendations contained in this report are based upon the results of field and laboratory testing, engineering analyses, and experience with similar soil conditions, structures, and our understanding of the proposed project as stated below.

PROPOSED CONSTRUCTION

The Rincon III pond will have dimensions of approximately 500 feet by 500 feet and will be located at 36.539671° north latitude / 107.490588° west longitude. As shown in the attached preliminary review drawing provided by Souder Miller and Associates (SMA) dated April 2019, 2019, we understand the pond will be partially incised into the existing grade with constructed embankments to an approximate elevation of 6693°. Based upon the provided site layout, the maximum height of constructed embankment is expected to be approximately 15 feet above the existing grade located at the south-east corner of the pond. The pond will be incised to an elevation of approximately 6672°, sloping to a sump located in the north-west corner of the pond at approximately 6667°. The resulting average depth of the pond is approximately 25 feet. The maximum water level is not indicated, but it is expected to maintain a freeboard of approximately 3 feet as found in the original Rincon pond design. The pond will be lined with a double HDPE liner system. The pond is to be located on a graded flat terrain with an adjacent well pad design. It is assumed that, although cleared and graded, the surficial soils have not been compacted and that the existing surface is equivalent and representative of the native soils.

Geotechnical Engineering Report RNU 2706-290 WRF GEOMAT Project No. 192-3247

SITE EXPLORATION

Our scope of services performed for this project included advancing three borings for subsurface exploration with sampling and logging performed by our staff geologist, laboratory testing of representative samples and engineering analyses.

Field Exploration:

Subsurface conditions at the Rincon III site were explored over the period April 24 through April 30, 2019 by drilling three exploratory borings, designated B-1 through B-3, at the approximate locations shown on the Site Plan in Appendix A. Boring B-1, was advanced to a depth of approximately 85 feet below existing ground surface (bgs), while borings B-2 and B-3 were drilled to depths of approximately 35 feet bgs.

B-1 was advanced to explore for the presence of groundwater and was completed on April 26, 2019. A full-length, 2-inch temporary screen was installed on April 26 and remained open in excess of the required minimum 48-hour period, from April 27 to April 30, for that groundwater exploration. The exploration was evaluated by GEOMAT on April 29, 2019 with no water found to be present. Borings B-2 and B-3 were advanced at that time at Enduring's direction.

On April 30, 2019, boring B-1 was again reviewed by a representative from the New Mexico Oil Conservation Division with GEOMAT present. No groundwater was found within the temporary screen at that time and B-1 was backfilled. A representative bulk sample of the surficial soils in B-1 was obtained for use in conducting remolded direct shear testing due to its central location to the site.

All borings were advanced using a CME-55 truck-mounted drill rig with continuous-flight, 7.25-inch O.D. hollow-stem auger. The borings were continuously monitored by a geologist from our office who examined and classified the subsurface materials encountered, obtained representative samples, observed groundwater conditions, and maintained a continuous log of each boring.

Soil samples were obtained from the borings using a combination of standard 2-inch O.D. split spoon and 3-inch O.D. modified California ring barrel samplers. The samplers were driven using a 140-pound hammer falling 30 inches. The standard penetration resistance was determined by recording the number of hammer blows required to advance the sampler in sixinch increments. Representative bulk samples of subsurface materials were also obtained.

Groundwater evaluations were made in each boring at the time of site exploration. Soils were classified in accordance with the Unified Soil Classification System described in Appendix A. Boring logs were prepared for B-1 through B-5 and are presented in Appendix A.

Laboratory Testing:

Samples retrieved during the field exploration were transported to our laboratory for further evaluation. At that time, the field descriptions were confirmed or modified as necessary, and laboratory tests were performed to evaluate the engineering properties of the subsurface materials.

Bulk samples of the surficial soils from B-1 and B-3 were also prepared and shipped to the TRI Environmental Inc, Geotechnical-Interaction Laboratory in Austin, Texas for direct shear testing.

SITE CONDITIONS

The RNU 2706-290 WRF site is located approximately 30 miles southeast of Bloomfield, New Mexico in Largo Wash. The ground surface across the site of the proposed pond was relatively flat with a slight gradient towards the east. An elevation change of approximately 7 feet occurs from the highest point in the northwest corner of the site to the lowest at the southeast corner of the site. The site had a sparse vegetation of weeds and sagebrush at the time of our exploration. No evidence of prior structural development was noted at the site. The photo below depicts the site conditions at the time of our exploration.



Drill Rig at Boring B-3
View toward the South

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SUBSURFACE CONDITIONS

Soil Conditions:

As presented on the Boring Logs in Appendix A, in all three borings, B-1 through B-3, we encountered dense, sandy soils to depths of 4½, 6, and 10½ feet bgs, respectively. Below the sandy soils, formational shale bedrock was encountered in all of the borings extending to depths of approximately 29½, 25, and 35 feet bgs, respectively. In boring B-3, the shale extended to the total depth explored. Below the shale bedrock, we encountered sandstone bedrock in both B-1 and B-2. In boring B-2, the sandstone extended to the total depth explored in the boring (35 feet). In boring B-1, the sandstone extended to a depth of approximately 70 feet bgs and was then underlain by shale bedrock which extended to the total depth explored in the boring (85 feet).

Groundwater Conditions:

Groundwater was not encountered in any of the borings. Groundwater elevations can fluctuate over time depending upon precipitation, irrigation, runoff and infiltration of surface water. We do not have any information regarding the historical fluctuation of the groundwater level in this vicinity.

Laboratory Test Results:

Laboratory analyses of samples tested indicate the sandy soils have a fines content (silt- and/or clay-sized particles passing the U.S. No. 200 sieve) of approximately 40 percent, with a plasticity index of 15. In-place dry densities of the soil were 112 pounds per cubic foot (pcf), with a natural moisture content of 8 percent. In-place dry densities of the shale bedrock were 107 pounds per cubic foot (pcf), with a natural moisture content of 13 percent. The standard proctor result (ASTM D698) for the composite sample taken from B-1, at depths of 0'-15' bgs indicated an optimum density of 109.7 pcf at 16.5 percent moisture. These values were utilized in specification of the remolding for the direct shear testing (ASTM D3080) at TRI.

The direct shear results from TRI indicate an effective friction angle, θ' , having values 28.3° and 31.6°, and an effective cohesion, c', of approximately 0 psf (forced) and 43 pcf for construction of embankments of compacted fill. Given the expected mixing of site materials for construction, slope stability analysis of the embankment design utilized an average value of 30° for θ' with selected multiple cohesion values for a sensitivity analysis. Values of 0, 5 and 43 pcf were evaluated for c', both interior and exterior slopes. Analytical results are discussed below and the results of all laboratory tests are presented in Appendix B.

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OPINIONS AND RECOMMENDATIONS

Geotechnical Considerations:

The site is considered suitable for the proposed fracking water pond based on the geotechnical conditions encountered and tested for this report and our understanding of the project. If there are any significant deviations from the assumed finished elevations, slopes and/or pond locations noted at the beginning of this report, the opinions and recommendations of this report should be reviewed and confirmed/modified as necessary to reflect the final planned design conditions.

Pond Design and Construction:

The Rincon III pond could be constructed as an incised basin with engineered constructed embankments as proposed. The HDPE liner system described by enduring should be installed in accordance with the manufacturer's recommendations. In addition to being sound practice, proper installation of the liner should assist in minimalizing exposure of the shales utilized in embankment construction to an increase in moisture content from leakage. Compaction of the subgrade within the incised portions of the pond below the liner should be in accordance with the liner manufacturer's recommendations and is assumed to be consistent with the recommendation found within the Placement and Compaction section of this report. It is anticipated that at least portion of the incised portion of the pond will be in rock. The liner manufacturer should be consulted for recommendations with respect to the liner being constructed on rock. Subgrade and fill for the embankments should also be constructed in accordance with those recommendations and adhere to the details in the provided pond design as evaluated. Assuming construction materials for the embankments will be excavated from the incised portion of the pond, there was initial concern regarding the significant of volume of shale at the site with respect to its use as fill for the pond embankments. Shales can be non-durable and easily degrade if construction parameters such as lift height, moisture-density control during compaction, and compaction equipment are not properly applied and maintained.

Our recommendations for construction below are based on the information obtained from the borings performed during our subsurface exploration. It should be realized that subsurface conditions could vary across the extent of the pond area, and these variations may not become apparent until construction is underway. If, during construction, soil types other than those encountered during our exploration are encountered, we should be contacted to observe the actual conditions and confirm/modify our recommendations, as appropriate.

Slope Stability Analysis:

A slope stability analysis was performed for Rincon III to evaluate the proposed design of the incised portions of the pond and the surrounding constructed pond embankments. A representative cross section was selected, modeled and evaluated utilizing Galena Slope Stability

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software (version 6.1) as an aid in developing our recommendations. Slopes were modeled utilizing an internal grade of 3.0:1 (horizontal:vertical) and a 5.0:1 external. These parameters are consistent with the supplied revised design received from SMA.

An access roadway is proposed in the design to be located on the top surface of the constructed embankments. As a result, light vehicle loads were added to the model as two 1500-pound point loads to represent possible additional loading. Analyses were performed for both the internal and external profiles at the selected cross section. Printouts of the software graphical analyses are attached in Appendix B. Table 1 summarizes the results of the analyses.

Seismic Considerations and Slope Stability:

Based on the subsurface conditions encountered in the borings, we estimate that Site Class C is appropriate for the site according to Table 1613.5.2 of the 2009 International Building Code. This parameter was estimated based on extrapolation of data beyond the deepest depth explored, using methods allowed by the code. Actual shear wave velocity testing/analysis and/or exploration to a depth of 100 feet were not performed as part of our scope of services for this project. Slope stability analyses were performed to include seismic forces at the critical representative cross section and incorporating the designed internal and external grades. For this site, seismic parameter of peak earthquake coefficient is 0.1014g as show in the printout included in the appendix. This value was utilized in slope stability modelling. Example graphical printouts are included in the appendix and the results are provided in Table 1 below.

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Table 1 - Slope Stability Analysis.

			Factor of Safety			
	Slope	Cohesion (psf)	Base	Seismic Applied		
Internal Slope	3:0:1	0	2.08	1.50		
		5	2.10	1.52		
		43	2.16	1.57		
External Slope	5.0:1	0	3.08	2.01		
		5	3.19	2.08		
		43	3.49	2.26		

Based on the results of our subsurface exploration, laboratory testing, and engineering analyses, the designed grades of the incised pond walls and the constructed embankments are acceptable at the proposed 3.0:1 internal and 5.0:1 external slopes in the site soils/rock if constructed as recommended herein. All embankments shall be compacted to a minimum of 95% of the maximum dry density as determined by ASTM D698 and as recommended in Earthwork section of this report.

Lateral Earth Pressures:

For soils above any free water surface, recommended equivalent fluid pressures for unrestrained foundation elements are presented in the following table:

• Active:

Granular soil backfill	(on-site sand).	35 psf/ft
Undisturbed subsoil		30 psf/ft

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• Passive:

Shallow foundation walls	250 psf/ft
Shallow column footings	350 psf/ft
Sump walls	400 psf/ft

The coefficient of base friction should be reduced to 0.30 when used in conjunction with passive pressure.

Where the design includes restrained elements, the following equivalent fluid pressures are recommended:

• At rest:

Granular soil backfill (on-site sand)	50 psf/ft
Undisturbed subsoil	60 psf/ft

Earthwork:

General Considerations:

The opinions contained in this report for the proposed construction are contingent upon compliance with recommendations presented in this section. Although underground facilities

such as foundations, septic tanks, cesspools, basements and irrigation systems were not encountered during site reconnaissance, such features could exist and might be encountered during construction.

Site Clearing:

- 1. Strip and remove all existing fill, debris and other deleterious materials from the proposed construction areas.
- If unexpected fills or underground facilities are encountered during site clearing, we should be contacted for further recommendations. All excavations should be observed by GEOMAT prior to backfill placement.
- 3. Stripped materials consisting of vegetation and organic materials should be removed from the site, or used to re-vegetate exposed slopes after completion of grading operations. If it is necessary to dispose of organic materials on-site, they should be placed in non-structural areas, and in fill sections not exceeding 5 feet in height.

GEOMAT Project No. 192-3247

- 4. Sloping areas other than those evaluated herein that are steeper than 5:1 (horizontal:vertical) should be benched to reduce the potential for slippage between existing slopes and fills. Benches should be graded for drainage (level) and wide enough to accommodate compaction and earth moving equipment.
- 5. All exposed areas which will receive fill, once properly cleared and benched where necessary, should be scarified to a minimum depth of eight inches, conditioned to near optimum moisture content, and compacted to at least 95% of standard proctor (ASTM D698).

Excavation:

We present the following general comments regarding our opinion of the excavation conditions for the designers' information with the understanding that they are opinions based on our boring data. More accurate information regarding the excavation conditions should be evaluated by contractors or other interested parties from test excavations using the equipment that will be used during construction.

Based on our subsurface evaluation it appears that shallow excavations in soils at the site will be possible using standard excavation equipment. Although not anticipated, excavations that encounter formational rock are expected to be difficult and may necessitate the use of heavy-duty equipment and/or specialized techniques.

On-site soils may pump or become unstable or unworkable at high water contents. Dewatering may be necessary to achieve a stable excavation. Workability may be improved by scarifying and drying. Over-excavation of wet zones and replacement with granular materials may be necessary. Lightweight excavation equipment may be required to reduce subgrade pumping.

Fill Materials:

- 1. Native soils could be used in any areas cut for facilitation of the pond excavation.
- 2. Select granular materials should be used as backfill behind walls that retain earth.

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3. On site or imported soils to be used in structural fills, not including the pond embankments, should conform to the following:

Gradation	Percent finer by weight (ASTM C136)
3"	100
No. 4 Sieve	50-100
No. 200 Sieve	50 Max
Maximum expansive potential (%)*	1.5
* Measured on a sample compacted to approxima D698 maximum dry density at about 3 percent b	

4. If required, aggregate base should conform to Type I Base Course as specified in Section 303 of the 2014 New Mexico Department of Transportation (NMDOT) "Standard Specifications for Road and Bridge Construction."

The sample is confined under a 144-psf surcharge and submerged.

Placement and Compaction:

- 1. Place and compact fill in horizontal lifts, using equipment and procedures that will produce recommended moisture contents and densities throughout the lift.
- 2. Un-compacted fill lifts should not exceed 10 inches loose thickness.
- 3. Materials should be compacted to the following:

Minimum Percent

Material	(ASTM D698)
Liner Subgrade Per Liner Manufacturer's Recommendation	mendations
Subgrade soils beneath fill areas	95
On site or imported soil fills:	
Beneath footings and slabs on grade	95
Aggregate base beneath slabs and pavements	95
Miscellaneous backfill	90

4. On-site and imported soils should be compacted at moisture contents near optimum.

GEOMAT Project No. 192-3247

Compliance:

To assess compliance, observation and testing should be performed by GEOMAT.

Drainage:

Surface Drainage:

Positive drainage should be provided during construction and maintained throughout the life of the proposed project to prevent surface runoff from entering the pond.

Protective slopes should be provided with a minimum grade of approximately 5 percent for at least 10 feet from the structures. Backfill against footings, exterior walls, and in utility trenches should be well compacted and free of all construction debris to reduce the possibility of moisture infiltration.

Subsurface Drainage:

Free-draining, granular soils containing less than five percent fines (by weight) passing a No. 200 sieve should be placed adjacent to walls which retain earth. A drainage system consisting of either weep holes or perforated drain lines (placed near the base of the wall) should be used to intercept and discharge water which would tend to saturate the backfill. Where used, drain lines should be embedded in a uniformly graded filter material and provided with adequate clean-outs for periodic maintenance. An impervious soil should be used in the upper layer of backfill to reduce the potential for water infiltration.

GENERAL COMMENTS

It is recommended that GEOMAT be retained to provide a general review of final design plans and specifications in order to confirm that grading recommendations in this report have been interpreted and implemented. In the event that any changes of the proposed project are planned, the opinions and recommendations contained in this report should be reviewed and the report modified or supplemented as necessary.

GEOMAT should also be retained to provide services during excavation, grading, and construction phases of the work. Construction testing, including field and laboratory evaluation of fill, backfill, and compacted slopes should be performed to determine whether applicable project requirements have been met.

The analyses and recommendations in this report are based in part upon data obtained from the field exploration. The nature and extent of variations beyond the location of test borings may not

GEOMAT Project No. 192-3247

become evident until construction. If variations then appear evident, it may be necessary to reevaluate the recommendations of this report.

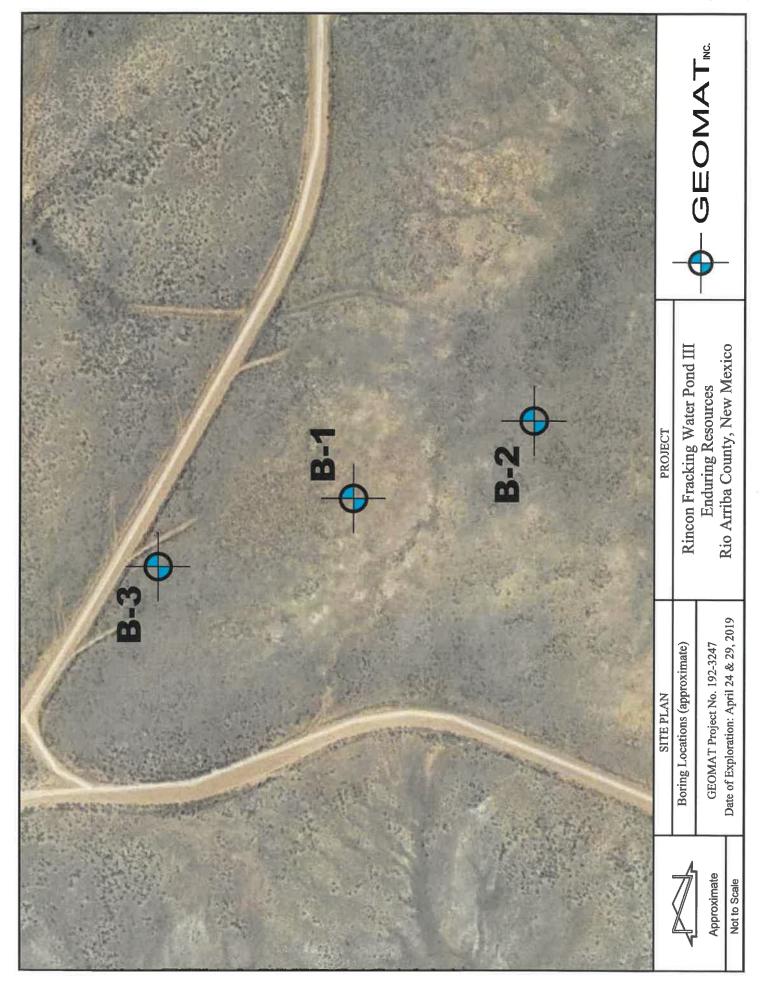
Our professional services were performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable geotechnical engineers practicing in this or similar localities at the same time. No warranty, express or implied, is intended or made. We prepared the report as an aid in design of the proposed project. This report is not a bidding document. Any contractor reviewing this report must draw his own conclusions regarding site conditions and specific construction equipment and techniques to be used on this project.

This report is for the exclusive purpose of providing geotechnical engineering and/or testing information and recommendations. The scope of services for this project does not include, either specifically or by implication, any environmental assessment of the site or identification of

contaminated or hazardous materials or conditions. If the owner is concerned about the potential for such contamination, other studies should be undertaken. This report has also not addressed any geologic hazards that may exist on or near the site.

This report may be used only by the Client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on and off site), or other factors may change over time and additional work may be required with the passage of time. Any party, other than the Client, who wishes to use this report, shall notify GEOMAT in writing of such intended use. Based on the intended use of the report, GEOMAT may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements, by the Client or anyone else, will release GEOMAT from any liability resulting from the use of this report by an unauthorized party.

Appendix A





915 Malta Avenue Farmington, NM 87401 Tel (505) 327-7928 Fax (505) 326-5721

Project Name: Rincon Pond III											Page 1 of 2
Cilent: San Juan County, New Mexico Rig Type: CME-55 Boring Location: See Site Plan Thilling Method: 7.25° O.D. Hollow Stem Auger Sampling Method: Bulk, Ring and Split spoon samples Hammer Weight: 140 lbs Hammer Fall: 30 inches Soil Description	Р	rojec	t Na	me:	F	Rinco	n Po	nd III			Date Drilled: <u>4/24/2019</u>
Site Location: San Juan County, New Mexico Rig Type: CME-55 Drilling Method: 7.25" O.D. Hollow Stem Auger Sampling Method: Bulk, Ring and Split spoon samples Hammer Weight: 140 lbs Hammer Fall: 30 inches Laboratory Results Remarks: None Soil Description Clayey SAND, tan/brown, fine- to medium-grained, dry to damp, layoratory Results Laboratory Results Laboratory Results Laboratory Results Laboratory Results Remarks: None Clayey SAND, tan/brown, fine- to medium-grained, dry to damp layoratory Results Laboratory Results Laboratory Results Laboratory Results Laboratory Results Remarks: None Clayey SAND, tan/brown, fine- to medium-grained, slight	Project Number: 192-3247									Latitude: Not Determined	
Rig Type: CME-55 Drilling Method: 7.25" O.D. Hollow Stem Auger Sampling Method: Bulk, Ring and Split spoon samples Hammer Weight: 140 lbs Hammer Fall: 30 inches Soil Description Soil Description Soil Description Soil Description Clayey SAND, tan/brown, fine- to medium-grained, dry to damp layer with higher clay content grave with higher clay content slightly weathered 108.8 13.1 27.39- R RK RK RK Soil Description Clayey SAND, tan/brown, fine- to medium-grained, dry to moderately fissile/friable, slightly to moderately damp, moderately cemented, slightly to moderately weathered SANDSTONE, tan/gray, fine- to medium-grained, slightly damp, moderately cemented, slightly to moderately weathered intermittent shale in cuttings	C	Client: Enduring								•	
Drilling Method: Sampling Method: Bulk, Ring and Split spoon samples Hammer Weight: Hammer Fall: 140 lbs Hammer Fall: 30 inches Soil Description Soil Description Soil Description Clayey SAND, tan/brown, fine- to medium-grained, dry to damp, moderately fissile/friable, slightly to moderately damp, moderately cemented, slightly to moderately damp, moderately cemented, slightly to moderately weathered SANDSTONE, tan/gray, fine- to medium-grained, slightly to moderately weathered SANDSTONE, tan/gray, fine- to medium-grained, slightly to moderately weathered SANDSTONE, tan/gray, fine- to medium-grained, slightly to moderately weathered SANDSTONE, tan/gray, fine- to medium-grained, slightly to moderately weathered SANDSTONE, tan/gray, fine- to medium-grained, slightly damp, moderately cemented, slightly to moderately weathered SANDSTONE, tan/gray, fine- to medium-grained, slightly damp, moderately cemented, slightly to moderately weathered								Coun	ty, New	Mexico	
Sampling Method: Hammer Weight: Hammer Fall: Laboratory Results 140 lbs 30 inches											
Hammer Weight: 140 lbs Remarks: None Laboratory Results Approximately 150 and	D	rilling	y Me	thod:	7	.25"	0.D.	Holk	ow Stem	n Auger	Groundwater Depth: None Encountered
Hammer Fall: 30 inches Laboratory Results	S	ampl	ing N	/lethc	od:B	Bulk,	Ring	and	Split spo	oon sar	nples Logged By:SY
Laboratory Results Age and Ag	H	amm	er V	/eigh							Remarks: None
Soil Description Clayey SAND, tan/brown, fine- to medium-grained, dry to damp, and sold shall be drock SHALE, gray, damp, slightly to moderately fissile/friable, slightly weathered 106.8 13.1 27-39- 80/3* 8 R R RK RK RK Soil Description Clayey SAND, tan/brown, fine- to medium-grained, dry to damp, slightly to moderately fissile/friable, slightly weathered intermittent siltstone in cuttings grades into sandstone SANDSTONE, tan/gray, fine- to medium-grained, slightly damp, moderately cemented, slightly to moderately weathered intermittent shale in cuttings	Н	amm	er F	all: 🍦	3	0 inc	hes				
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13.1 27-39- R RK 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 32 34 35 35 35 35 35 35 35 35 35 35 35 35 35										10	
13.1 27-39-50/5" R RK 115 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 30 31 32 33 34 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36						Α				12	
RK 18 19 200 211 222 233 24 255 266 277 278 299 30 31 324 334 345 35 35 35 35 35 35 35 35 35 35 35 35 35										13 14	
RK 17 18 19 20 20 21 223 24 25 26 27 28 29 30 30 30 30 31 33 34 34 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36	106.8			13.1		_				15	
intermittent siltstone in cuttings 224 225 227 228 229 227 228 229 229 220 227 228 229 229 220 227 228 229 229 220 227 228 230 24 255 26 27 28 29 29 20 20 21 21 222 23 24 25 26 27 28 29 29 20 20 21 21 22 23 24 25 26 27 28 29 29 20 20 21 21 22 23 24 25 27 28 29 29 20 20 20 21 21 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20					50/5"	R		RK		17	
ss system of the state of the s										19	
intermittent siltstone in cuttings 22										20 <u>-</u> 21 -	
ss s s s s s s s s s s s s s s s s s s										22	intermittant ciltatane in cuttings
grades into sandstone SANDSTONE, tan/gray, fine- to medium-grained, slightly damp, moderately cemented, slightly to moderately weathered intermittent shale in cuttings RK 40 41 42 43 44 45 45 46 47 48 49 49 49 49 49 49 49 49 49 49 49 49 49										24	The mile it sustaine in cuttings
grades into sandstone SANDSTONE, tan/gray, fine- to medium-grained, slightly damp, moderately cemented, slightly to moderately weathered intermittent shale in cuttings RK 40 41 42 43 44 44 45 45 46 46 47 48 49 50 A A Sample PP = Pocket Penetrometer										26	
SANDSTONE, tan/gray, fine- to medium-grained, slightly damp, moderately cemented, slightly to moderately weathered intermittent shale in cuttings RK 40 40 41 42 43 44 45 45 46 47 48 49 50										28	
SANDSTONE, tan/gray, fine- to medium-grained, slightly damp, moderately cemented, slightly to moderately weathered intermittent shale in cuttings RK 40 41 42 43 44 44 45 45 46 47 48 49 49 45 50 A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer					EU/OII					29 30	
RK 40 40 41 42 43 44 44 45 46 47 48 49 50 A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer					50/3"	SS		8		31	
RK 35 intermittent shale in cuttings A RK 40 41 42 43 44 44 45 46 47 48 49 50 A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer										33	weathered
RK 36 37 38 39 40 40 41 42 42 43 44 45 45 46 47 48 49 50 A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer										35_	intermittent shale in cuttings
RK										36	
A RK 40 41 42 43 44 45 45 46 47 47 48 49 50 A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer										38	
A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer								RK		40 -	
A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer						A				42	
45 46 47 48 49 50 A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer										43	harder drilling
A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer									****	45 – 46 –	9
A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer									* * * * * * * * * * * * * * * * * * * *	47	
A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer										49	
	Α:	= Auge	r Cutti	ngs R	= Ring-L	ined B	arrel S	Sample	r SS = Spi		GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer



915 Malta Avenue Farmington, NM 87401 Tel (505) 327-7928 Fay (505) 326-5721

		Fax (505) 326-5721						(300) 320	7/21	Page 2 of 2
F () S ()	Project Name:Rincon Pond III Project Number:192-3247 Client: Enduring Site Location: San Juan County, New Mexico Rig Type: CME-55 Drilling Method: 7.25" O.D. Hollow Stem Auger Sampling Method: Bulk, Ring and Split spoon samples Hammer Weight: 140 lbs Hammer Fall: 30 inches							ty, New ow Stem Split spo	Mexico Auger oon san	Latitude: Not Determined Longitude: Not Determined Elevation: Not Determined Boring Location: See Site Plan Groundwater Depth: None Encountered Determined See Site Plan See Site Plan See Site Plan None Encountered SY Remarks: None
Lab	orato	y Re	sults	9			be d	<u></u>		
Dry Density (pcf)	% Passing #200 Sieve	Plasticity Index	Moisture Content (%)	Blows per	Sample Type & Length (in)	Symbol	Material Type	Soil Symbol	Depth (ft)	Soil Description
					A		RK		512345678901234567777778888888888888888888888888888888	intermittent shale in cuttings SHALE, gray, slightly damp
GEOMAT 192-3247.GPJ GEOMAT.GDT 5/1/19				Die	ined P	oma!	Some Is		790 - - - - -	Total Depth 85 feet GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer



915 Malta Avenue Farmington, NM 87401 Tel (505) 327-7928 Fax (505) 326-5721

	Tax (500) 520-0721						IQA	(000) 020	0,2,	Page 1 of 1
P S R D S	Project Name: Rincon Pond III Project Number: 192-3247 Client: Enduring Site Location: San Juan County, New Mexico Rig Type: CME-55 Drilling Method: 7.25" O.D. Hollow Stem Auger Sampling Method: Ring and Split spoon samples Hammer Weight: 140 lbs Hammer Fall: 30 inches								Latitude: Not Determined Longitude: Not Determined Elevation: Not Determined Boring Location: See Site Plan Groundwater Depth: None Encountered Logged By: SY	
-	orator	-		er 6"	n) e	_	ype	log	ft)	
Dry Density (pcf)	% Passing #200 Sieve	Plasticity Index	Moisture Content (%)	Blows per	Sample Type & Length (in)	Symbo	Material Type	Soil Symbol	Depth (ft)	Soil Description
111.7	40	15	7.8	18-28- 50/6" 14-17-22	R	X	sc		123456789	Clayey SAND, tan/brown, fine- to medium-grained, dense, dry to damp, caliche layer with higher clay content
				50/5"	R				789011234-15617	SHALE, gray, slightly damp, slightly to moderately fissile/friable, slightly weathered interlayered with gray/tan siltstone
				50/3"	ss	-	RK		18	
				50/5"	R				19 201 223 225 26 27 28	
				50/4"	SS	-				SANDSTONE, tan/gray, fine-grained, dry to slightly damp, moderately cemented
				50/2"	ss		RK		30 _ 31 _ 32 _ 33 _ 34 _	
GEOMAT 192-3247.GPJ GEOMAT.GDT 5/1/19				50/3**	SS				29	Total Depth 35 feet
A S	A = Auger Cuttings R = Ring-Lined Barrel Sampler SS = Split Spoon GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer									



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Tel (505) 327-7928 Fax (505) 326-5721								Page 1 of 1			
Project Client: Site Lo Rig Ty Drilling Sampl Hamm	Project Name: Rincon Pond III Project Number: 192-3247 Client: Enduring Site Location: San Juan County, New Mexico Rig Type: CME-55 Drilling Method: 7.25" O.D. Hollow Stem Auger Sampling Method: Ring and Split spoon samples Hammer Weight: 140 lbs Hammer Fall: 30 inches						Mexico Auger amples	Date Drilled: 4/29/2019 Latitude: Not Determined Longitude: Not Determined Belevation: Not Determined Boring Location: See Site Plan Groundwater Depth: None Encountered Logged By: SY			
Laborator	y Results				ø	_					
Dry Density (pcf) % Passing #200 Sieve	Plasticity Index Moisture	Blows per 6"	Sample Type & Length (in)	Symbol	Material Type	Soil Symbol	Depth (ft)	Soil Description			
		16-22-25 8-32-45	SS R	×	sc		123456789011234567	Clayey SAND, tan/brown, fine- to medium-grained, dense, dry to damp, caliche layer with higher clay content			
		12-18-39	SS	X			11 - 12 - 13 -	SHALE, gray, slightly damp, slightly to moderately fissile/friable, slightly weathered			
		50/5*	R	=				interlayered with gray/tan siltstone			
		22-28-46	SS	×	RK		18 19 20 22 23 22 25 27				
		50/6"	R				25 26 27 28				
		50/6"	SS	×			30123345	higher sand content			
	Cuphing	50/3**	SS SS	appeal (Pages		289	Total Depth 35 feet GRAB = Manual Grab Sample D = Disturbed Bulk Sample PP = Pocket Penetrometer			

	UNIFIE	D SOIL CLASSI	ICATION SYS	TEM	CONSIS	STENCY OR	RELATIVE
	Major Divisions		Group Symbols	Typical Names	DE	ENSITY CRIT	ERIA
	-	Clean Gravels	GW	Well-graded gravels and gravel-sand mixtures, little or no fines		ndard Penetrati	
	Gravels 50% or more of	Clean Gravers	GP	Poorly graded gravels and gravel-sand mixtures, little or no fines	Penetration Resistance, N (blows/ft.)	Relative Density	1
	coarse fraction retained on No. 4 sieve	Gravels with	GM	Silty gravels, gravel-sand-silt mixtures	0-4	Very Loose	
Coarse- Grained Soils		Fines	GC	Clayey gravels, gravel-sand-clay mixtures	5-10	Loose	
More than 50% retained on No. 200 sieve		Clean Sands	sw	Well-graded sands and gravelly sands, little or no fines	11-30	Medium De	nse
	Sands More than 50% of		SP	Poorly graded sands and gravelly sands, little or no fines	31-50	Dense	
	coarse fraction passes No. 4 sieve	Sands with	SM	Silty sands, sand-silt mixtures	>50	>50 Very Dense	
		Fines	sc	Clayey sands, sand-clay mixtures			Penetration Test Fine-Grained Soils
			ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	Penetration Resistance, N (blows/ft.)	Consistency	Unconfined Compressive Strength (Tons/fi
	Silts an Liquid Limi	d Clays t 50 or less	CL	inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, tean clays	<2	Very Soft	<0.25
Fine-Grained Soils			OL	Organic silts and organic silty clays of low plasticity	2-4	Soft	0.25-0.50
50% or more passes No. 200 sieve			МН	Inorganic silts, micaceous or diatomaceous free sands or silts, elastic silts	4-8	Firm	0.50-1.00
		d Clays reater than 50	СН	Inorganic clays of high plasticity, fat clays	8-15	Stiff	1.00-2.00
			ОН	Organic clays of medium to high plasticity	15-30	Very Stiff	2.00-4.00
Н	ighly Organic So	ils	PT	Peat, mucic & other highly organic soils	>30	Hard	>4.0
U.S. Standar	d Sieve Sizes						
>12" Boulders	12" 3" Cobbles	3/4" #4 Gravel	#10	#40 Sand	#200		
200,000	300000	coarse fine	coarse	medium	fine	Silt or Clay	

	MOISTURE CONDITIONS	MATERIAL QUAN	YTITY	OTHER SYMBOLS
Dry	Absence of moist, dusty, dry to the touch	trace 0-	-5%	R Ring Sample
Slightly Damp	Below optimum moisture content for compaction	few 5-	-10%	S SPT Sample
Moist	Near optimum moisture content, will moisten the hand	little 10	0-25%	B Bulk Sample
Very Moist	Above optimum moisture content	some 25	5-45%	▼ Ground Water
Wet	Visible free water, below water table	mostly 50	0-100%	

BASIC LOG FORMAT:

Group name, Group symbol, (grain size), color, moisture, consistency or relative density. Additional comments: odor, presence of roots, mica, gypsum, coarse particles, etc.

EXAMPLE:

SILTY SAND w/trace silt (SM-SP), Brown, loose to med. Dense, fine to medium grained, damp

UNIFIED SOIL CLASSIFICATION SYSTEM

TEST DRILLING EQUIPMENT & PROCEDURES

Description of Subsurface Exploration Methods

<u>Drilling Equipment</u> – Truck-mounted drill rigs powered with gasoline or diesel engines are used in advancing test borings. Drilling through soil or softer rock is performed with hollow-stem auger or continuous flight auger. Carbide insert teeth are normally used on bits to penetrate soft rock or very strongly cemented soils which require blasting or very heavy equipment for excavation. Where refusal is experienced in auger drilling, the holes are sometimes advanced with tricone gear bits and NX rods using water or air as a drilling fluid.

Sampling Procedures - Dynamically driven tube samples are usually obtained at selected intervals in the borings by the ASTM D1586 test procedure. In most cases, 2" outside diameter, 1 3/8" inside diameter, samplers are used to obtain the standard penetration resistance. "Undisturbed" samples of firmer soils are often obtained with 3" outside diameter samplers lined with 2.42" inside diameter brass rings. The driving energy is generally recorded as the number of blows of a 140-pound, 30-inch free fall drop hammer required to advance the samplers in 6-inch increments. These values are expressed in blows per foot on the boring logs. However, in stratified soils, driving resistance is sometimes recorded in 2- or 3-inch increments so that soil changes and the presence of scattered gravel or cemented layers can be readily detected and the realistic penetration values obtained for consideration in design. "Undisturbed" sampling of softer soils is sometimes performed with thin-walled Shelby tubes (ASTM D1587). Tube samples are labeled and placed in watertight containers to maintain field moisture contents for testing. When necessary for testing, larger bulk samples are taken from auger cuttings. Where samples of rock are required, they are obtained by NX diamond core drilling (ASTM D2113).

<u>Boring Records</u> - Drilling operations are directed by our field engineer or geologist who examines soil recovery and prepares boring logs. Soils are visually classified in accordance with the Unified Soil Classification System (ASTM D2487), with appropriate group symbols being shown on the logs.

Appendix B

	CLASSIFICATION	Clayey SAND (SC) / SHALE (RK)	SHALE (RK)	Clayey SAND (SC)	Rincon RNU 2706-290 Water Recycling Facility	192-3247	Rio Arriba County, New Mexico	4/24 & 4/29/2019
% PASS	#200 SIEVE	I		40				þ
CONSOL	TEST	1	•	•	Project	Job No.	Location	Date Drilled
SWELL	(%)	ı	ı	1				
	۵	ı	•	70		ဟု		
ATTERBERG LIMITS	7	1	•	15		SUMMARY OF SOIL TESTS		
ATTE	귀	ı	ı	30				
DENSITY	DRY (pcf)	•	106.8	111.7		MARY C		
	WET (pcf) DRY (pcf)	-	120.8	120.4		SUN		
MOISTURE	CONT. (%)	1	13.1	7.8		<u></u>	()	
ASTM D698	Moisture	16.4		1		OMAT		
ASTM	Density	109.7	ı			2	E) ke	
DEPTH	FT.	0 - 15.0	72	2.5		U U		
BORING NO.		F.W	7-	B-2		9		
LAB NO.		8007	8010	8008		U	,	

LABORATORY TESTING PROCEDURES

Consolidation Tests: One-dimensional consolidation tests are performed using "Floating-ring" type consolidometers. The test samples are approximately 2.5 inches in diameter and 1.0 inch high and are usually obtained from test borings using the dynamically-driven ring samplers. Test procedures are generally as outlined in ASTM D2435. Loads are applied in several increments to the upper surface of the test specimen and the resulting deformations are recorded at selected time intervals for each increment. Samples are normally loaded in the in-situ moisture conditions to loads which approximate the stresses which will be experienced by the soils after the project is completed. Samples are usually then submerged to determine the effect of increased moisture contents on the soils. Each load increment is applied until compression/expansion of the sample is essentially complete (normally movements of less than 0.0003 inches/hour). Porous stones are placed on the top and bottom surfaces of the samples to facilitate introduction of the moisture.

Expansion Tests: Tests are performed on either undisturbed or recompacted samples to evaluate the expansive potential of the soils. The test samples are approximately 2.5 inches in diameter and 1.0 inch high. Recompacted samples are typically remolded to densities and moisture contents that will simulate field compaction conditions. Surcharge loads normally simulate those which will be experienced by the soils in the field. Surcharge loads are maintained until the expansion is essentially complete.

Atterberg Limits/Maximum Density/Optimum Moisture Tests: These tests are performed in accordance with the prescribed ASTM test procedures.

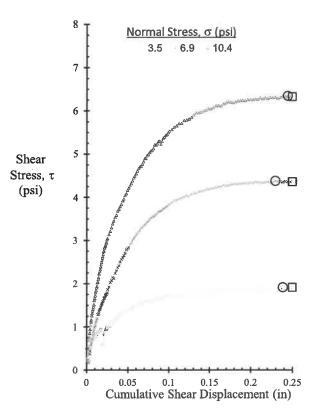
AUSTIN, TX - USA | ANAHEIM, CA - USA | ANDERSON, SC - USA | GOLD COAST - AUSTRALIA | SUZHOU - CHINA

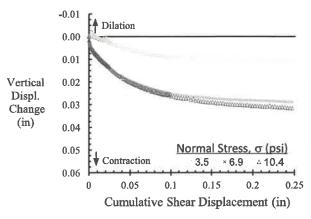
Direct Shear of Soil Under Consolidated-Drained Conditions

Client: GEOMAT Inc.
Project: Rincon III

Rincon III

Sample: Rincon III B3 (10.0-20.0)





Note: The soil was air dried and passed through a No. 8 sieve to eliminate any over sized particles. The soil was moisture conditioned, allowed to equilibrate, and then adjusted according to the target gravimetric moisture content of 16.0% based on an oven dried moisture content. The specimen was then remolded into a known volume to achieve the target dry density of 104.0 pcf. A specific gravity of 2.75 was assumed for weight-volume calculations.

	10 T	oPeak □0.25 li	nches				
Shear Stress, τ (psi)	5 + 2.5 + 0 0	2.5	<u></u>	7.5	10	12.5	15
			-	mal Stre			10

TRI Log#:

46478.2

Test Method: ASTM D3080

Note: Area Correction Has Been Applied

	Specimen Number	1	2	3	
	Diameter, in	2.50	2.50	2.50	
	Height, in (before consol)	1.00	1.00	1.00	
tial litio	Water Content, %	16.0	16.0	16.0	
Initial Condition	Saturation, %	68.1	67.7	68.0	
~	Dry Density, pcf	104.3	104.0	104.2	
	Void Ratio	0.65	0.65	0.65	
Con	solidation Stress, σ' (psi)	3.5	6.9	10.4	
ا ا	Height, in (prior to shear)	1.01	1.02	1.06	
Post- Consol	Dry Density, pcf	103.0	101.9	98.5	
_ 0	Void Ratio	0.65	0.67	0.73	
Dis	placement rate (in/min)	3.0E-04			
Fi	inal Water Content, %	31.9	28.0	27.1	
	Normal Stress, σ' (psi)	3.98	7.81	11.88	
	Shear Stress, τ (psi)	1.91	4.38	6.35	
Peak	Secant Friction Angle, Degrees	25.7	29.3	28.1	
Pe	Displacement (in)	0.24	0.23	0.24	
	φ' _d , degrees	28.3			
	c' _d , psi	0 (Forced)			
ro.	Normal Stress, σ' (psi)	4.00	7.89	11.90	
che	Shear Stress, τ (psi)	1.91	4.36	6.33	
ľ	Secant Friction Angle, Degrees	25.5	28.9	28.0	
0.25 Inches	φ' _d , degrees	28.1			
	c' _d , psi	0 (Forced)			

Jeffrey A. Kuhn, Ph.D., P.E., 5/13/19

Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the meterial. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

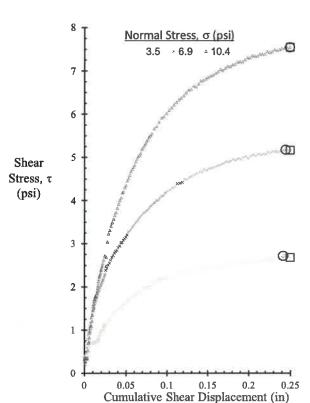
Direct Shear of Soil Under Consolidated-Drained Conditions

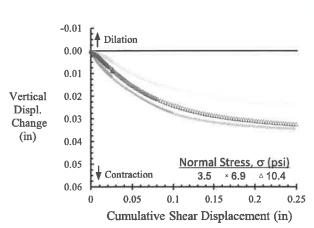
Client: GEOMAT Inc.
Project: Rincon III

Sample: Rincon III B3 High Side (0.0-15.0)

TRI Log#: 46478.1

Test Method: ASTM D3080





Note: The soil was air dried and passed through a No. 8 sieve to eliminate any over sized particles. The soil was moisture conditioned, allowed to equilibrate, and then adjusted according to the target gravimetric moisture content of 16.0% based on an oven dried moisture content. The specimen was then remolded into a known volume to achieve the target dry density of 104.0 pcf. A specific gravity of 2.75 was assumed for weight-volume calculations.

Shear Stress, τ (psi)	7.5	o Peak □0,25 Inc	hes	<i>)</i> 8′		,e	
	- 21	2.5		7.5	10	12.6	15
	0	2.5	5	7.5	10	12.5	15
		Effectiv	e Nor	mal Stre	ss, σ	(psi)	

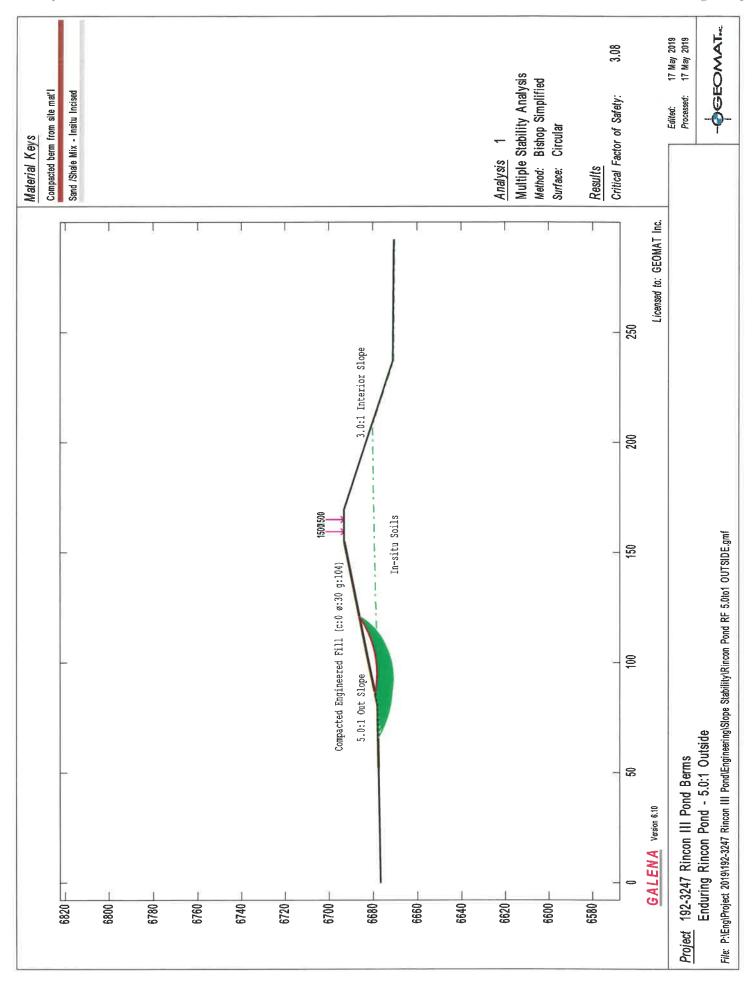
Note: Area Correction Has Been Applied

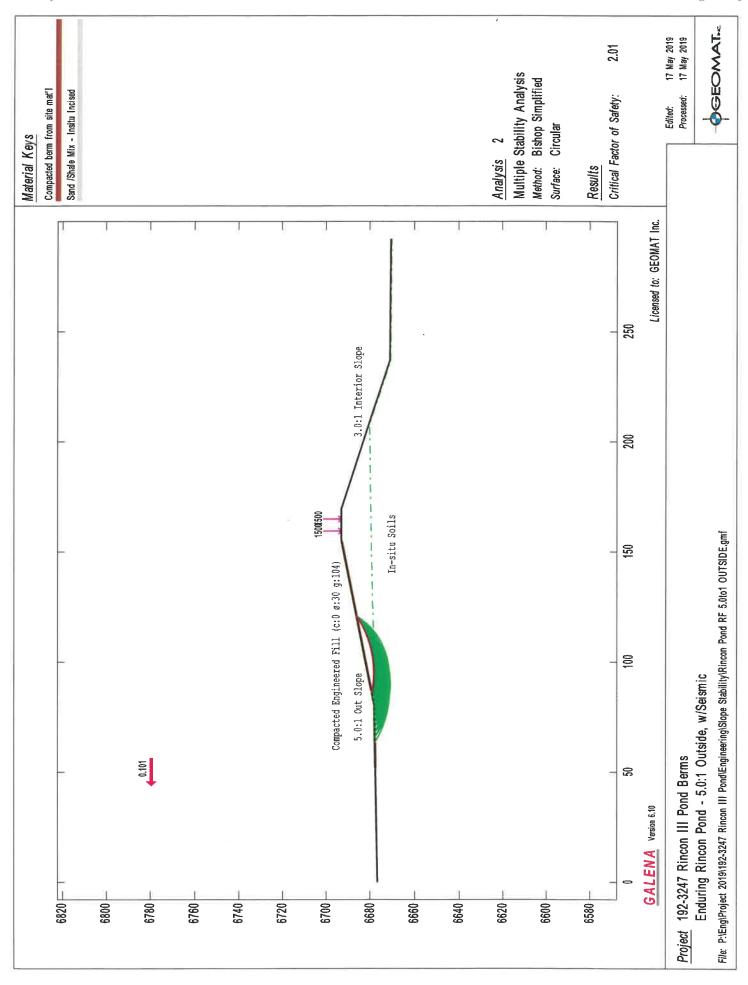
	Specimen Number	1	2	3	
	Diameter, in	2.50	2.50	2.50	
ا ا	Height, in (before consol)	1.00	1.00	1.00	
Initial onditio	Water Content, %	16.1	16.1	16.1	
Initial Condition	Saturation, %	68.4	67.6	67.5	
	Dry Density, pcf	104.2	103.7	103.6	
	Void Ratio	0.65	0.66	0.66	
Con	solidation Stress, σ' (psi)	3.5	6.9	10.4	
و ب	Height, in (prior to shear)	0.97	0.94	0.92	
Post- Consol	Dry Density, pcf	107.1	109.7	112.5	
	Void Ratio	0.59	0.55	0.51	
Dis	placement rate (in/min)	3.0E-03			
F	inal Water Content, %	24.0	28.9	24.3	
	Normal Stress, σ' (psi)	3.99	7.88	11.91	
	Shear Stress, τ (psi)	2.71	5.17	7.54	
Peak	Secant Friction Angle, Degrees	34.2	33.3	32.3	
Pe	Displacement (in)	0.24	0.24	0.25	
	φ' _d , degrees	s 31.4			
	c' _d , psi	0.3			
70	Normal Stress, σ' (psi)	4.00	7.89	11.91	
che	Shear Stress, τ (psi)	2.67	5.16	7.54	
ř	Secant Friction Angle, Degrees	33.7	33.2	32.3	
0.25 Inches	φ' _d , degrees		31.6		
0	c' _d , psi	0.2			

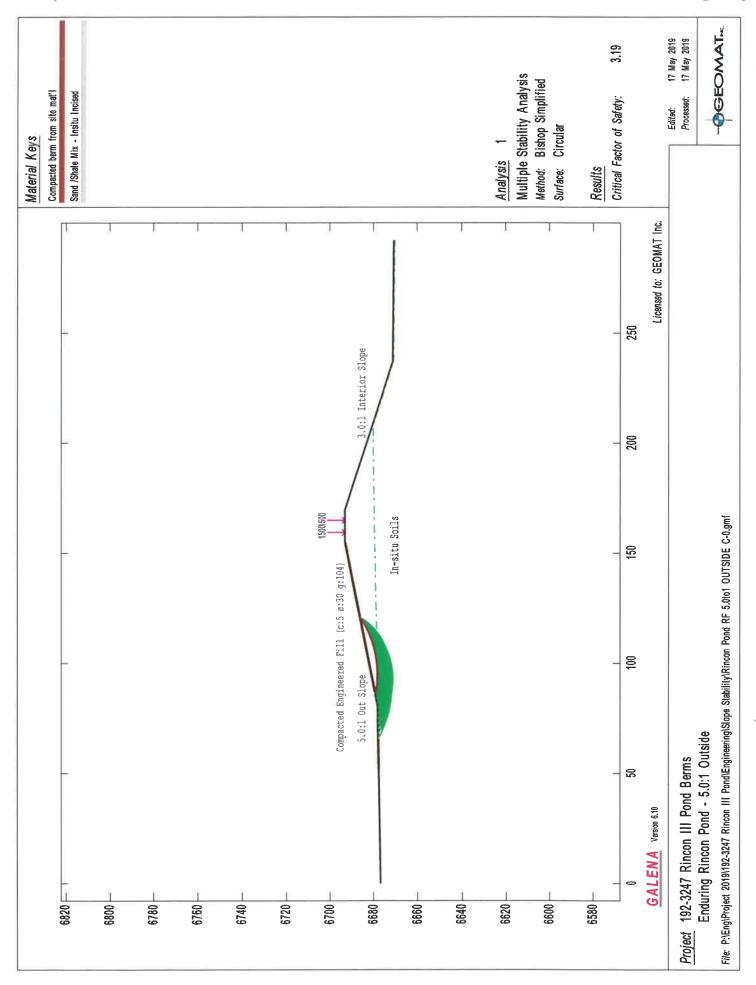
Jeffrey A. Kuhn, Ph.D., P.E., 5/13/19

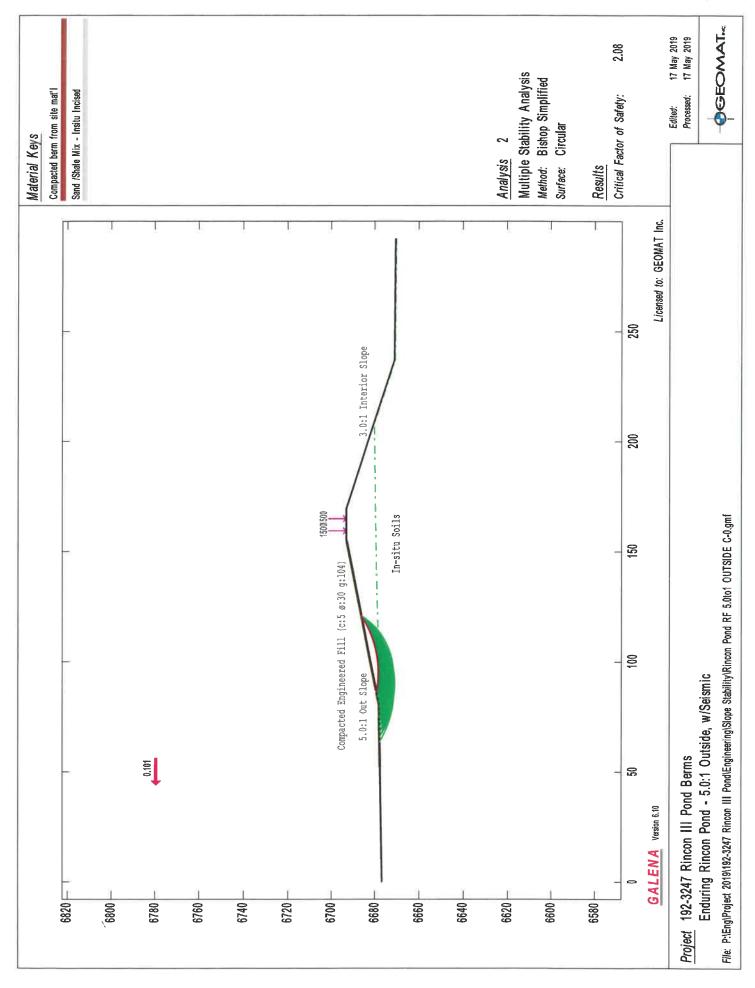
Analysis & Quality Review/Date

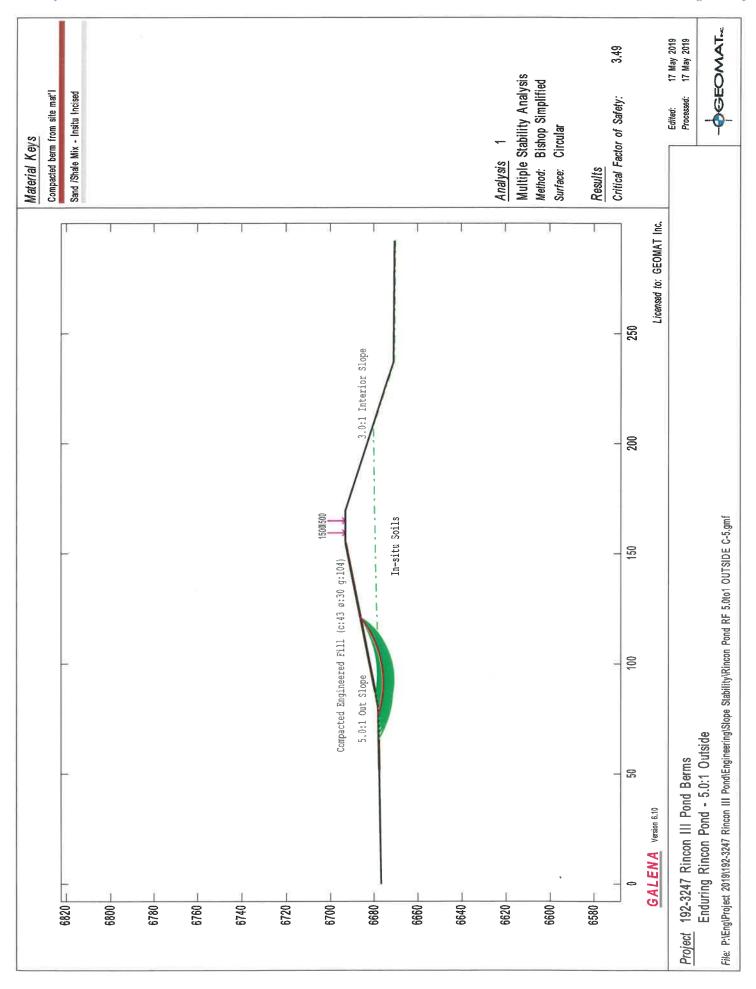
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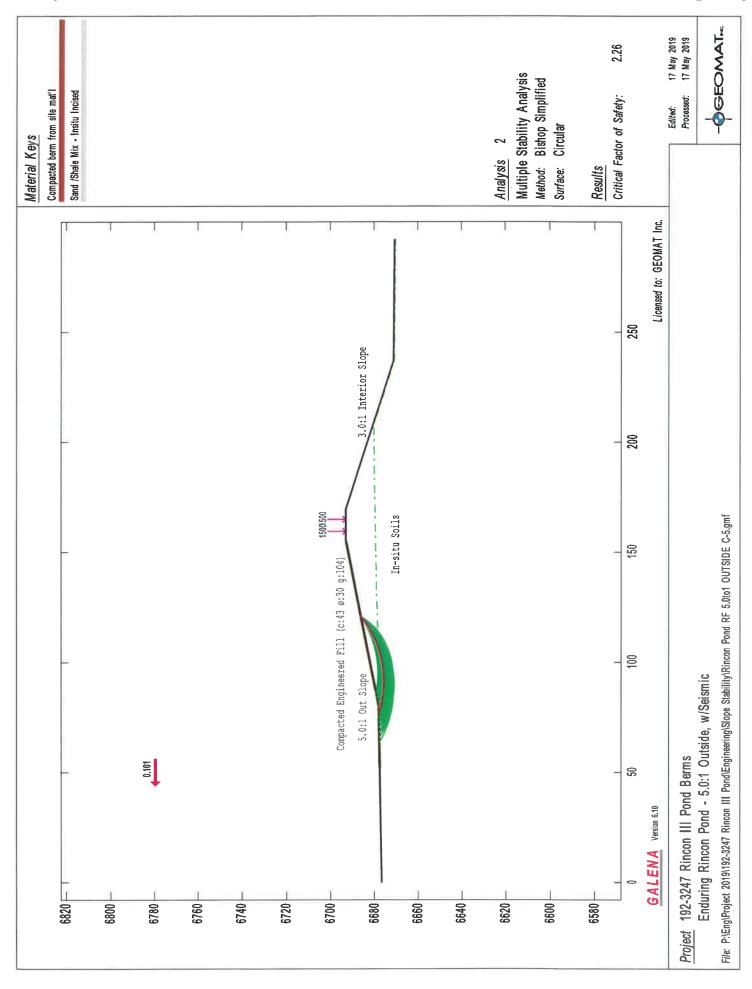


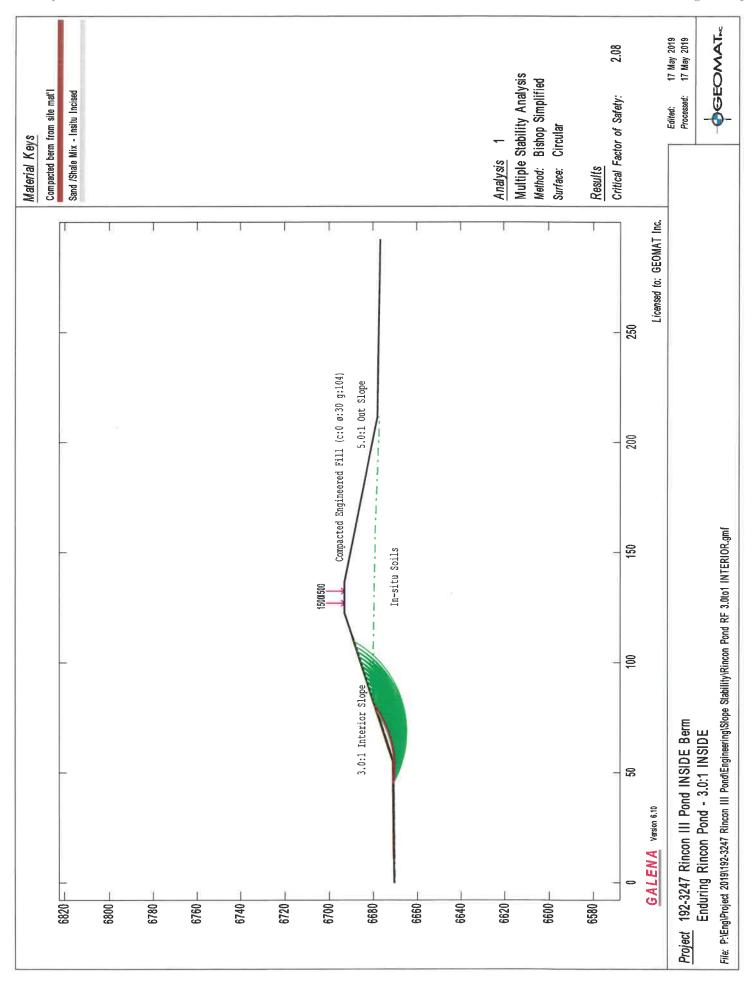


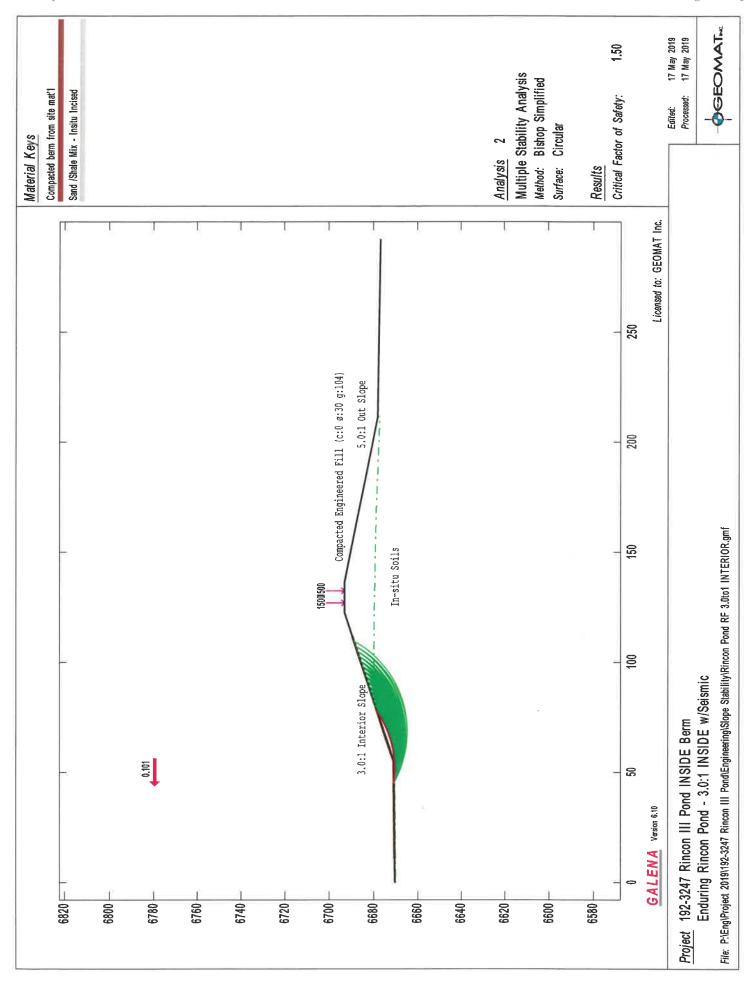


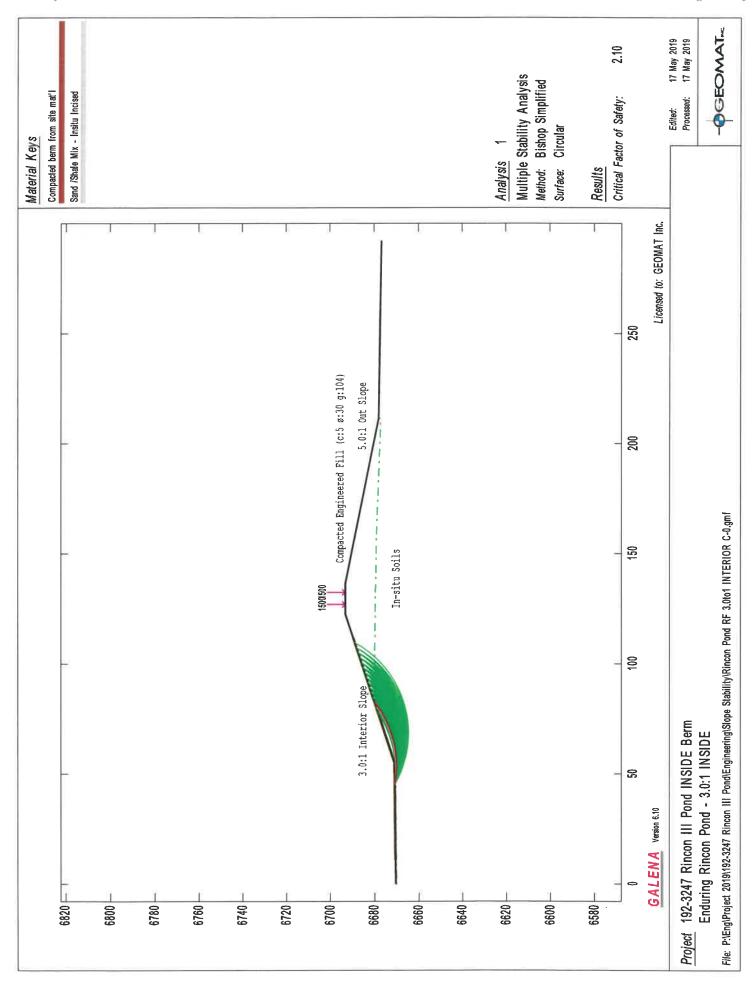


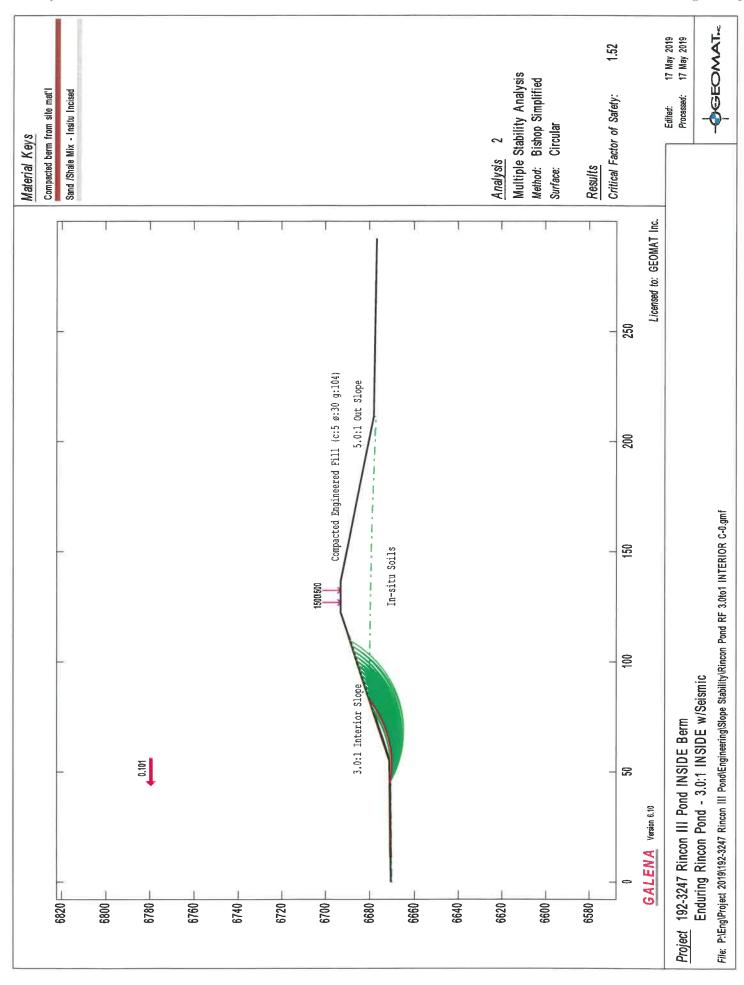


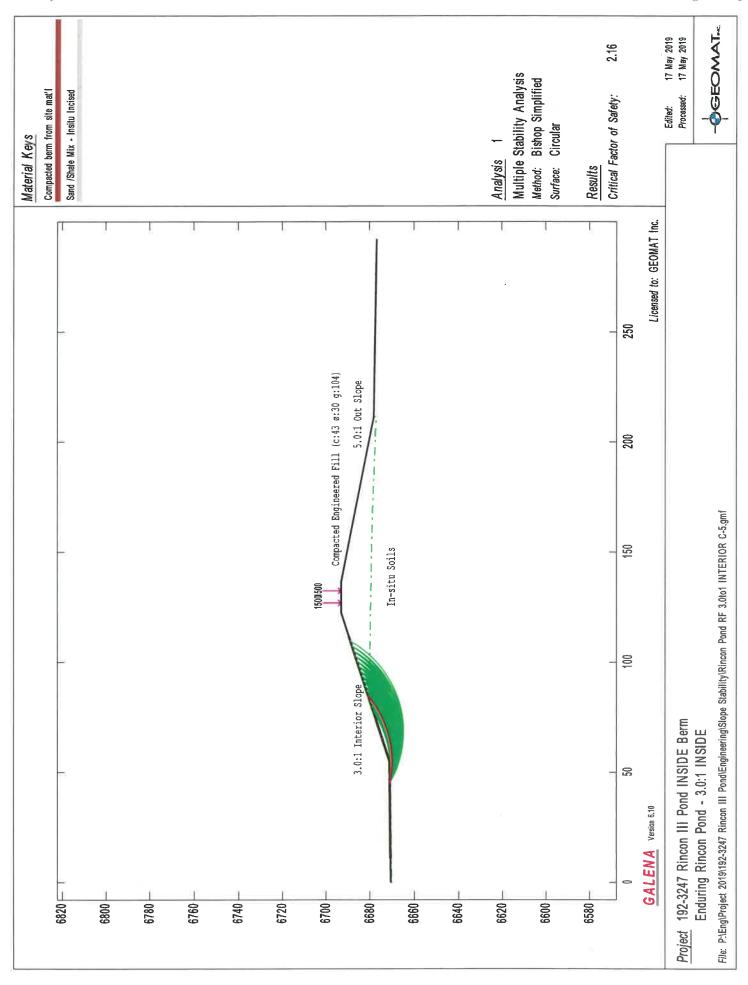


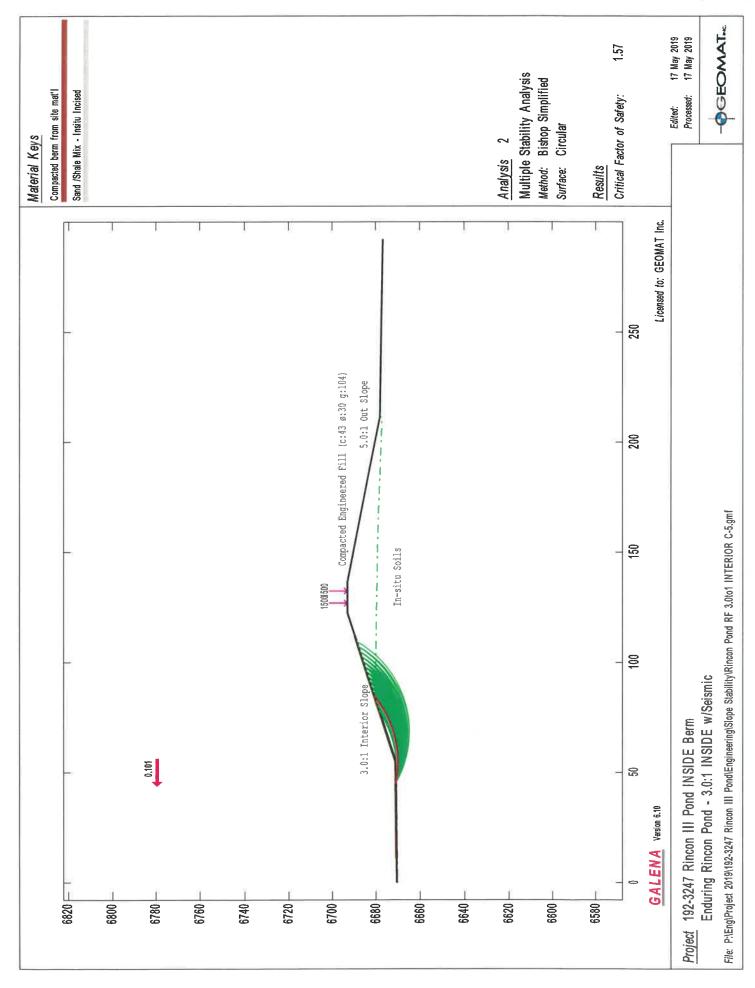














Spreadsheet: Documentation of Seismic Coefficient for Galena Slope Stability

Project Name: Rincon III
Date: 13-May-19
Operator: R. Flegal

Conterminous 48 States
USGS Unified Hazard Tool: U.S. 2014 (v4.0.x)
Uniform Hazard Spectrum (UHS) fro 2% in 50 years
https://earthquake.usgs.gov/hazards/interactive/

182-2992 36.539671°, -107.490588°

Peak Ground Acceleration B/C boundary

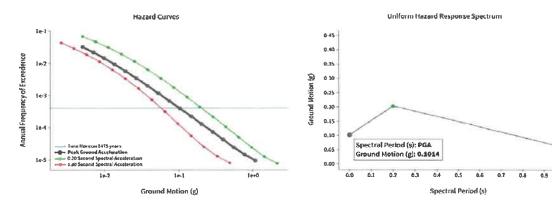
From the resulting graph of data -This value is used in Galena

Peak Earthquake Coefficient: 0.1014 g





A Hazard Curve



Yimyi Raya Data

Appendix C

Important Information about This

Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

The Geoprofessional Business Association (GBA) has prepared this advisory to help you - assumedly a client representative - interpret and apply this geotechnical-engineering report as effectively as possible. In that way, clients can benefit from a lowered exposure to the subsurface problems that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed below, contact your GBA-member geotechnical engineer. **Active involvement in the Geoprofessional Business** Association exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.

Geotechnical-Engineering Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical-engineering study conducted for a given civil engineer will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared solely for the client. Those who rely on a geotechnical-engineering report prepared for a different client can be seriously misled. No one except authorized client representatives should rely on this geotechnical-engineering report without first conferring with the geotechnical engineer who prepared it. And no one – not even you – should apply this report for any purpose or project except the one originally contemplated.

Read this Report in Full

Costly problems have occurred because those relying on a geotechnicalengineering report did not read it *in its entirety*. Do not rely on an executive summary. Do not read selected elements only. *Read this report* in full.

You Need to Inform Your Geotechnical Engineer about Change

Your geotechnical engineer considered unique, project-specific factors when designing the study behind this report and developing the confirmation-dependent recommendations the report conveys. A few typical factors include:

- the client's goals, objectives, budget, schedule, and risk-management preferences;
- the general nature of the structure involved, its size, configuration, and performance criteria;
- the structure's location and orientation on the site; and
- other planned or existing site improvements, such as retaining walls, access roads, parking lots, and underground utilities.

Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light-industrial plant to a refrigerated warehouse;
- the elevation, configuration, location, orientation, or weight of the proposed structure;
- · the composition of the design team; or
- project ownership.

As a general rule, always inform your geotechnical engineer of project changes – even minor ones – and request an assessment of their impact. The geotechnical engineer who prepared this report cannot accept responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.

This Report May Not Be Reliable

Do not rely on this report if your geotechnical engineer prepared it:

- for a different client;
- for a different project;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, that it could be unwise to rely on a geotechnical-engineering report whose reliability may have been affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. If your geotechnical engineer has not indicated an "apply-by" date on the report, ask what it should be, and, in general, if you are the least bit uncertain about the continued reliability of this report, contact your geotechnical engineer before applying it. A minor amount of additional testing or analysis – if any is required at all – could prevent major problems.

Most of the "Findings" Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site's subsurface through various sampling and testing procedures. Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing were performed. The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgment to form opinions about subsurface conditions throughout the site. Actual sitewide-subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team from project start to project finish, so the individual can provide informed guidance quickly, whenever needed.

This Report's Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, they are not final, because the geotechnical engineer who developed them relied heavily on judgment and opinion to do so. Your geotechnical engineer can finalize the recommendations only after observing actual subsurface conditions revealed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. The geotechnical engineer who prepared, this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.

This Report Could Be Misinterpreted

Other design professionals' misinterpretation of geotechnicalengineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a full-time member of the design team, to:

- · confer with other design-team members,
- help develop specifications,
- review pertinent elements of other design professionals' plans and specifications, and
- be on hand quickly whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction observation.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, but be certain to note conspicuously that you've included the material for informational purposes only. To avoid misunderstanding, you may also want to note that "informational purposes" means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report, but they may rely on the factual data relative to the specific times, locations, and depths/elevations referenced. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, only from the design drawings and specifications. Remind constructors that they may

perform their own studies if they want to, and be sure to allow enough time to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely*. Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a "phase-one" or "phase-two" environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Unanticipated subsurface environmental problems have led to project failures. If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk-management guidance. As a general rule, do not rely on an environmental report prepared for a different client, site, or project, or that is more than six months old.

Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, none of the engineer's services were designed, conducted, or intended to prevent uncontrolled migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, proper implementation of the geotechnical engineer's recommendations will not of itself be sufficient to prevent moisture infiltration. Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. Geotechnical engineers are not building-envelope or mold specialists.



Telephone: 301/565-2733 e-mail: info@geoprofessional.org www.geoprofessional.org

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Type of Facility:

<u>District I</u> 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 ■ 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.
Operator: Enduring Resources IV, LLC (For multiple operators attach page with information) OGRID #: 372286 Address: 200 Energy Court, Farmington, NM 87401
Facility or well name (include API# if associated with a well): Rincon Unit 2706-290 (3RF-46)
OCD Permit Number: fCS1921338052 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr 0 Section 29 Township 27N Range 6W County: Rio Arriba
Surface Owner: 🗷 Federal 🗌 State 🔲 Private 🔲 Tribal Trust or Indian Allotment
Recycling Facility: Location of recycling facility (if applicable): Latitude 36.539671 Longitude -107.490588 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:
Recycling Containment: Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year) Center of Recycling Containment (if applicable): Latitude 36.539671

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 u	ıntil 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 8' chain link fence				
6. Signs:				
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. - Written confirmation or verification from the municipality; written approval obtained from the municipality	☐ Yes ☑ No ☐ NA			
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	☐ Yes 🏿 No			
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	☐ Yes 🏿 No			
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). - Topographic map; visual inspection (certification) of the proposed site	☐ Yes ☑ No			
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; aerial photo; satellite image	☐ Yes 🏻 No			
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. - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	☐ Yes 🏻 No			
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes 🏿 No			

9. Describes For Plant Man Containing of Charleston				
Recycling Facility and/or Containment Checklist:				
Instructions: Each of the following items must be attached to the application. Indic	cate, 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) 				
Certify that house 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 a	re true, accurate and complete to the best of my knowledge and belief.			
Name (Print): Khem Suthiwan	Title: Regulatory Manager			
Signature: Khem Suthiwan	Date: 06/06/2022			
e-mail address: ksuthiwan@enduringresources.com	Telephone: (303)350-5721			
c-man address.	receptione. \(\frac{\chi}{\chi}\)			

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): Khem Suthiwan	Title: Regulatory Manager			
Signature: Khem Suthiwan	Date: 06/06/2022			
e-mail address: ksuthiwan@enduringresources.com	Telephone: (303)350-5721			
	-			
OCD Representative Signature:	Approval Date:			
Title:	OCD Permit Number:			
OCD Conditions				
Additional OCD Conditions on Attachment				



200 Energy Court Farmington, NM 87401 Field Office: 505.636.9720 | Main Office: 303.573.1222

June 2, 2022

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Permit Cancellation Request

Rincon Unit 2706-290 Recycling Facility

Permit No: 3RF-46

Rio Arriba County, New Mexico

To Whom it May Concern:

Enduring Resources, LLC (Enduring) is requesting the cancellation of Recycling Containment Permit 3RF-46 issued by the New Mexico Oil Conservation Division (NMOCD) on August 2, 2019. At this time, the facility and/or associated features have not been constructed. The attached photographs (which include the coordinates where the photographs were taken) provide proof that the facility was never constructed. Please contact the undersigned with any questions or comments regarding this cancellation request.

Thank you,

Chris Jones

Regulatory Specialist (Surface) Enduring Resources, IV LLC.

505.636.9723 - Office

505.497.1115 - Cell





Work Plan: Close the existing Recycling Containment Permit 3RF-46 issued by NMOCD on August 2, 2019. The existing approval contains the use of a in ground storage pond. In ground storage ponds are no longer consistent with Enduring Resources development plans. Enduring intends to close the existing approval and resubmit an application that implements the use of above ground storage tanks. This allows greater water storage with a lesser impact on the landscape as well as a timelier reclamation process following completion of development plans.

Timeline: Close Existing 3RF-46 early June 2022. Obtain new Recycling Containment Permit mid to late June. Execute construction mid-July (following the May 1 - July 15 Pronghorn Birthing Closure).

Received by OCD: 6/6/2022 1:39:32 PM

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Photo #1: Northeast corner



Photo #3: Southwest corner



Photo #2: Southeast corner



Photo #4: Northwest corner



Received by OCD: 6/6/2022 1:39:32 PM



Photo #5: Center looking south



Photo #7: Center looking north



Photo #6: Center looking west



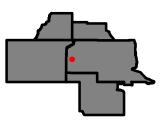
Photo #8: Center looking east



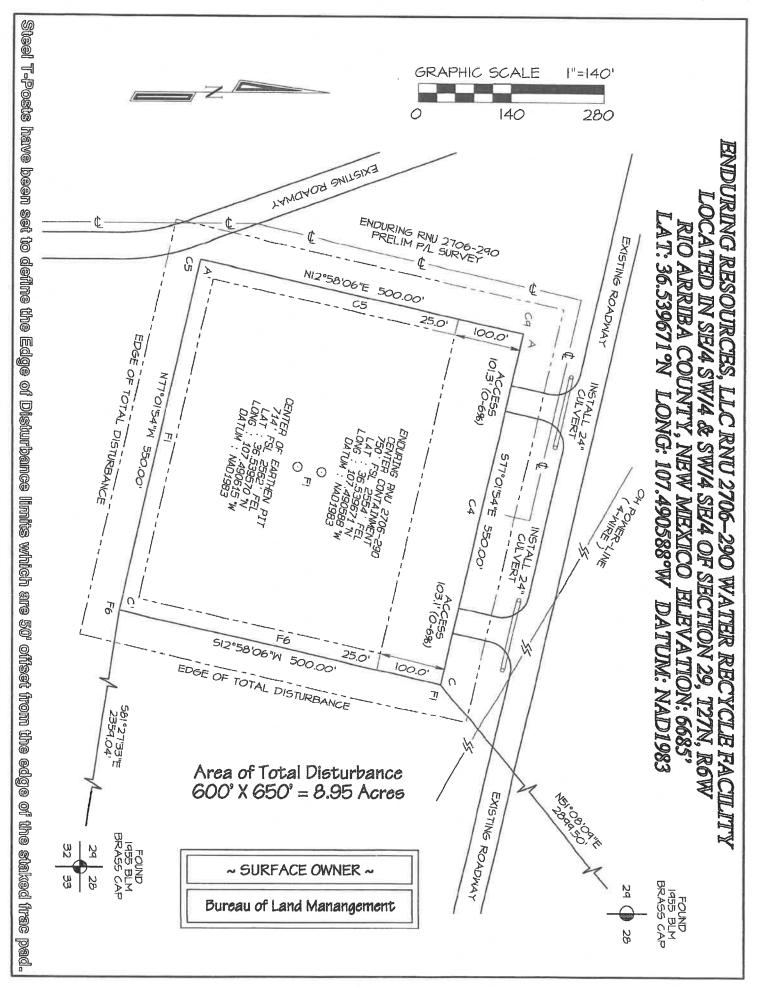
PHOTO POINT PADS Land Ownership BLM ROADS

Access, Dirt





Author: CJones | Date: 20220603



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 113460

CONDITIONS

Operator:	OGRID:		
ENDURING RESOURCES, LLC	372286		
6300 S Syracuse Way, Suite 525	Action Number:		
Centennial, CO 80111	113460		
	Action Type:		
	[C-147] Water Recycle Long (C-147L)		

CONDITIONS

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed the permit cancellation request submitted by [372286] ENDURING RESOURCES on 06/03/2022 for 3RF - 46 RINCON UNIT 2706-290 FACILITY ID [fCS1921338052] in O-29-27N-06W, Rio Arriba, NM, that was never constructed. This permit has been canceled. If [372286] ENDURING RESOURCES, LLC wishes to use an AST containment at the same location, a new permit application will need to be uploaded to for review.	6/14/2022