

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pCS1826341898

3RF - 28
ENDURING RESOURCES, LLC

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

Type of Facility:

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 Containment*

Recycling Facility

Type of action:
* 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, LLC (For multiple operators attach page with information) OGRID #: 372286
Address: 332 Road 3100, Aztec, New Mexico 97410
Facility or well name (include API# if associated with a well): NEU 2207-16B Water Recycle Facility
OCD Permit Number:(For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr NW/4 NE/4 Section 16 Township 22N Range 7W County: Sandoval Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2. Necycling Facility: **Conddyna Attached.**
Location of recycling facility (if applicable): Latitude 36.144262 Longitude 1-107.576376 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 All 2 0 2018
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:
Closure Report (required within 60 days of closure completion): ☐ Recycling Facility Closure Completion Date: Recycling 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)
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 36.144262 Longitude -107.576376 NAD83
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): Latitude36.144262
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 36.144262 Longitude -107.576376 NAD83 ☐ For multiple or additional recycling containments, attach design and location information of each containment ☐ Liner type: Thickness 45 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other

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.)	
☐ Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ (work on these facilities cannot commence	until bonding
amounts are approved)	
☐ Attach closure cost estimate and documentation on how the closure cost was calculated.	
5.	
Fencing:	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
✓ Alternate. Please specify 8' Tall Chain Link Fencing	
6. Signs:	
☑ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19.15.16.8 NMAC	
7.	
<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: Uariance(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.	oa, merade me
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.	ation. Potential
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	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	☐ Yes ☑ No☐ NA
- Written confirmation or verification from the municipality; written approval obtained from the municipality	
Within the area overlying a subsurface mine. - 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).	☐ Yes ☒ No
- Topographic map; visual inspection (certification) of the proposed site	
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. 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. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes ☒ No

Recycling Facility and/or Containment Checklist: Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached. ☑ Design Plan - based upon the appropriate requirements.☑ Operating and Maintenance Plan - based upon the appropriate requirements. 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 application are true, accurate and complete to the best of my knowledge and belief. Name (Print): __ Title: James McDaniel **HSE Supervisor** Signature: Date: 8/20/2018 e-mail address: imcdaniel@eduringresources.com Telephone: 505-636-9731 **OCD Representative Signature: Approval Date: OCD Permit Number:**

OCD Conditions

Additional OCD Conditions on Attachment

Smith, Cory, EMNRD

From:

Smith, Corv. EMNRD

Sent:

Thursday, September 20, 2018 12:09 PM

To:

James McDaniel

Cc:

Billings, Bradford, EMNRD; Fields, Vanessa, EMNRD; Andrea Felix; Powell, Brandon,

EMNRD

Subject:

Enduring NEU 2207-16B Water Recycling Facility and Containment assigned 3RF-28

Mr. McDaniel

OCD has received the Recycling facility and Containment for Enduring NEU 2207-16B Water Recycling Facility submitted on September 11, 2018. After subsequent Enduring submissions and OCD review the registration has been approved with the following conditions of approval:

- Enduring will construct a sump as describe in the Design plan (But not in the signed Engineering documents) and will meet all the requirements of 19.15.34.12 NMAC
- Enduring will submit an as built engineering diagram of the completed recycling containment within 90 days of construction completion.

The NEU 2207-16B Water Recycling Facility has been assigned as Permit/Registration Number 3RF-28. Please take note of the Permit/Registration number, as this will be what Enduring uses on form C-148 to account for produce water usage. You may review your permit at OCD Online by searching for 3RF-28. As a Reminder Since Enduring indicated that the facility is covered under bonding Pursuant to 19.15.8 NMAC, This containment use is limited to **ONLY** the wells owned or operated by Enduring.

The application has been sent up for scanning and should appear in the online data base soon. If you have any questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

Mr. Cory Smith
Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, New Mexico 87410
Email: cory.smith@state.nm.us
Phone (505) 334-6178 Ext 115



Re: Variance Request for 19.15.34 NMAC

Mr. Smith,

Please accept this letter as a variance request as outlined in 19.15.34.16 NMAC. Enduring Resources, LLC (Enduring) is proposing to install a six foot chain link fence surrounding the recycling containment in lieu of the fencing requirements listed in 19.15.34.12.D NMAC. We believe this will provide better protection than the requirements listed in 19.15.34.12.D NMAC.

Enduring Resources, LLC (Enduring) is proposing to mitigate migratory birds pursuant to the attached *Migratory Bird Mitigation Plan* as required in 19.15.34.12.E. We believe this will provide equal or better protection than the requirements listed in 19.15.34.12.E NMAC.

Respectfully Submitted,

James McDaniel, CHMM #15676

HSE Supervisor

Enduring Resources, LLC



Enduring Resources, LLC Recycling Facility and /or Recycling Containment Documents provided to Surface Owner- Certification NEU 2207-16B Water Recycle Facility

Enduring Resources, LLC is certifying that a copy of the submitted C-147 filed on Monday August 20, 2018 to the NMOCD District III office has been provided to the New Mexico State Land Office as required.

New Mexico State Land Office project # is BL2613

Andrea Felix, Regulatory Manager

Andrea Felix

From:

Winscott, John <jwinscott@slo.state.nm.us>

To:

Andrea Felix

Sent:

Monday, August 20, 2018 8:19 AM

Subject:

Read: BL2613: Copy of C-147 submitted to NMOCD

Your message

To:

Subject: BL2613: Copy of C-147 submitted to NMOCD

Sent: Monday, August 20, 2018 8:20:44 AM (UTC-07:00) Mountain Time (US & Canada)

was read on Monday, August 20, 2018 8:18:44 AM (UTC-07:00) Mountain Time (US & Canada).



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 16

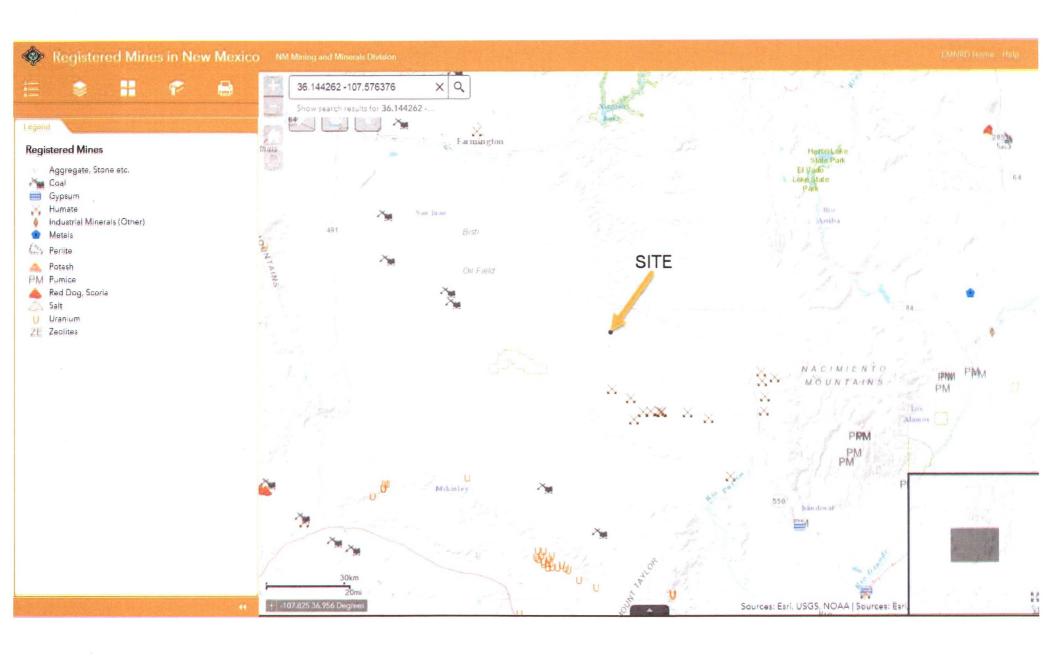
Township: 22N Range: 107W

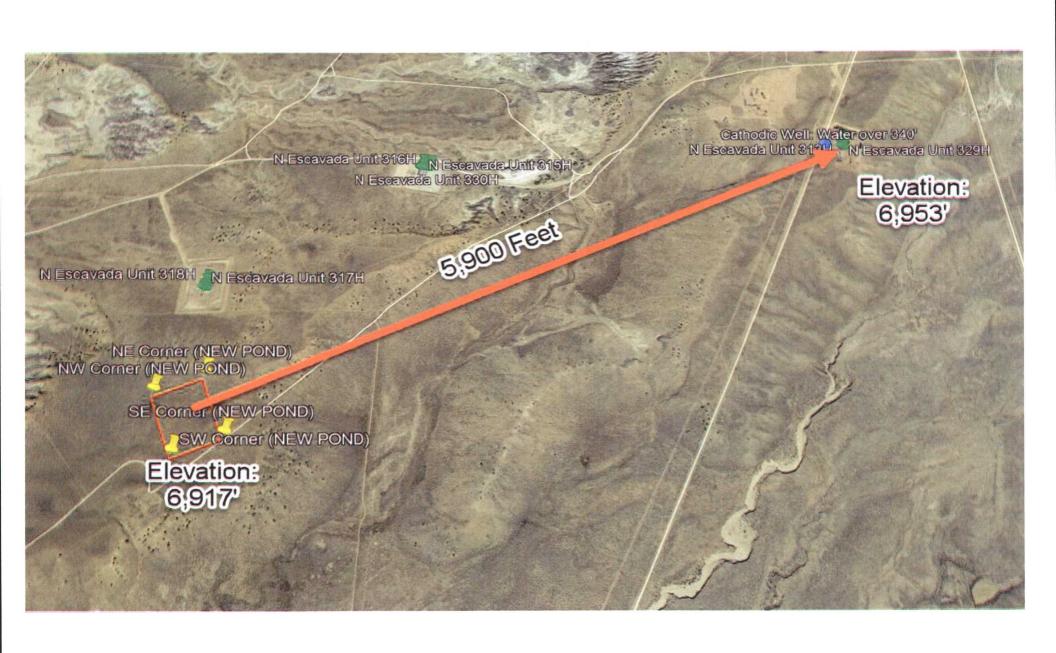
The data is furnished by the NMOSE ISC and is accepted by the recipient with the expressed understanding that the OSE ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

8/20/18 5:38 AM

WATER COLUMN AVERAGE DEPTH TO WATER







National Flood Hazard Layer FIRMette

250

500

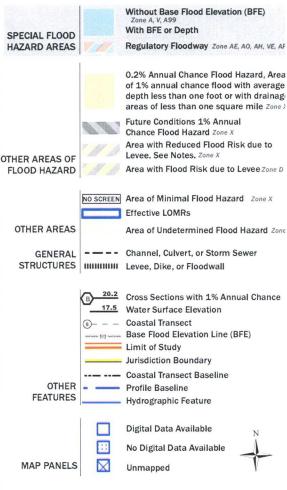
1 000

1 500



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



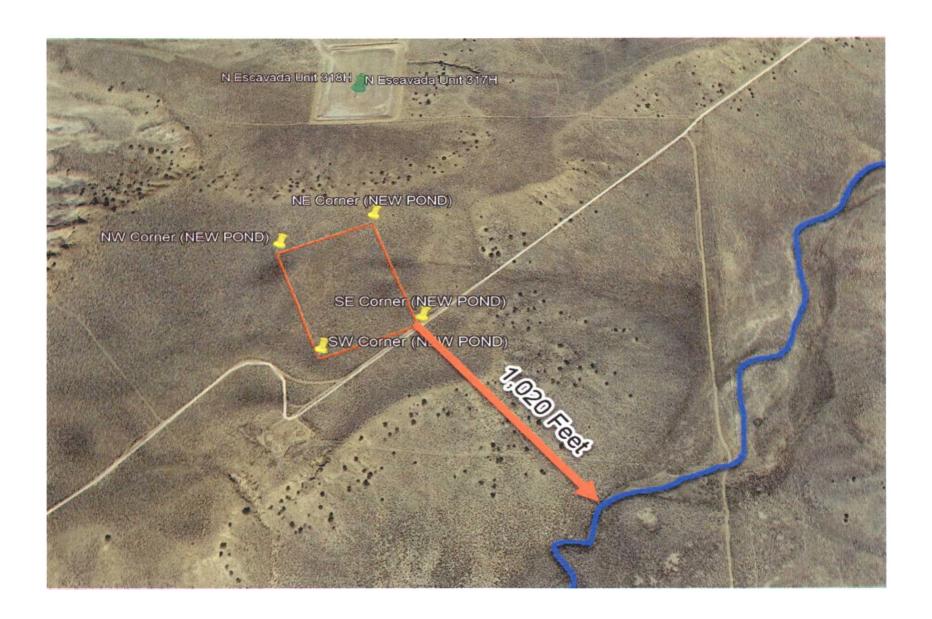
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The base map shown complies with FEMA's base map accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/9/2018 at 7:55:44 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: base map imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2 000



			300-340	250-300	MO-250	140-19D	100-140	60-100	0-60	BLANG	Ground Bed Dupth: 340'	Location Sucto TON PAN	Company WPX Energy		
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									PUC	OTHER OF THE PROPERTY OF THE P	Dismeter, 10"	/#WULS AND	4 Date: 10-12-2016		

		8	GROUNDWATER DEPTH LOG
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100	The sad	Sand	
12.00	Take Transfer		
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Date		Depth	Comments
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JES-OI	\$130am	1051	No marker
	24:1	340'	Phished anode bad



Design & Construction Plan

NEU 2207-16B Water Recycle Facility



Enduring Resources, LLC 332 Road 3100 Aztec, New Mexico 87410

Prepared by:
James McDaniel
HSE Supervisor



Introduction

This Design and Construction Plan is designed to meet the requirements of NMAC 19.15.34.13, which outlines the requirements for design and construction criteria for a produced water recycling containment. Enduring Resources, LLC (Enduring) will construct this recycling containment in accordance with the following design and construction plan.

1. The operator shall design and construct a recycling containment to ensure the confinement of produced water, to prevent releases and to prevent overtopping due to wave action or rainfall.

The recycling containment has been designed the containment to meet the above criteria, ensuring the confinement of produced water, the prevention of releases, and the prevention of overtopping due to wave action or rainfall.

2.

- a. A recycling containment shall have a properly constructed foundation and interior slopes consisting of a firm, unyielding base, smooth and free of rocks, debris, sharp edges or irregularities to prevent the liner's rupture or tear.
 The recycling containment has been designed, and will be constructed, to have a properly constructed foundation, 95% compaction, and an unyielding base, free of rocks debris and sharp edges.
- b. Geotextile is required under the liner when needed to reduce localized stress-strain or protuberances that otherwise may compromise the liner's integrity. The operator shall construct the containment in a levee with an inside grade no steeper than two horizontal feet to one vertical foot (2H:1V). The levee shall 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 anchor trench and provide adequate room for inspection and maintenance.

Geotextile will be placed under the liner the secondary liner in order to reduce stress-strain on the liner. The containment levee has been designed to have an inside grade no steeper than 2H:1V, and an outside grade no steeper than 3H:1V.

3.

a. Each recycling containment shall incorporate, at a minimum, a primary (upper) liner and a secondary (lower) liner with a leak detection system appropriate to the site's conditions.

The recycling containment is designed to have a 45 mil, string reinforced LLDPE liner as the primary liner, and a 45 mil, string reinforced LLDPE liner as the secondary liner.

b. The edges of all liners shall be anchored in the bottom of a compacted earth-filled trench. The anchor trench shall be at least 18 inches deep.

The edges of the liners will be constructed in such a way as to be anchored in the bottom of a compacted earthen trench, which will be at least 18 inches deep.

4.

a. All primary (upper) liners in a recycling containment shall be geomembrane liners composed of an impervious, synthetic material that is resistant to ultraviolet light, petroleum hydrocarbons, salts and acidic and alkaline solutions. All primary liners shall be 30-mil flexible PVC, 45-mil LLDPE string reinforced or 60-mil HDPE liners.

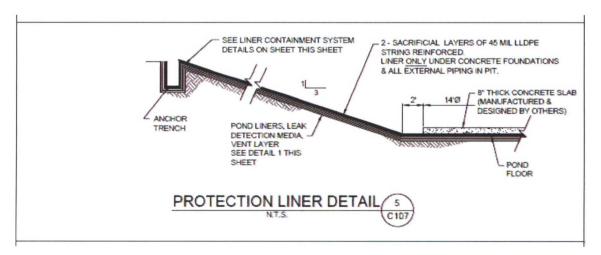
The primary liner will be a 45-mil, LLDPE, string reinforced liner that is composed of material that is resistant to ultraviolet light, petroleum hydrocarbons, salt solutions, acidic

- solutions and alkaline solutions. Liner compatibility meets the conductivity requirement of 1×10^{-9} cm/sec.
- b. Secondary liners shall be 30-mil LLDPE string reinforced or equivalent with a hydraulic conductivity no greater than 1 x 10-9 cm/sec. Liner compatibility shall meet or exceed the EPA SW-846 method 9090A or subsequent relevant publications. The secondary liner will be a 45-mil, LLDPE, string reinforced liner that is composed of material that is resistant to ultraviolet light, petroleum hydrocarbons, salt solutions, acidic solutions and alkaline solutions. Liner compatibility meets the conductivity requirement of 1 x 10-9 cm/sec.
- 5. The operator of a recycling containment shall minimize liner seams and orient them up and down, not across, a slope of the levee. Factory welded seams shall be used where possible. The operator shall ensure field seams in geosynthetic material are thermally seamed. Prior to field seaming, the operator shall overlap liners four to six inches. The operator shall minimize the number of field seams and corners and irregularly shaped areas. There shall be no horizontal seams within five feet of the slope's toe. Qualified personnel shall perform field welding and testing.

Liner material will be factory welded by the manufacturer by qualified personnel. The liner material will overlap a minimum of 4 inches. No horizontal seam will be placed within 5 feet of the slopes toe. All welding and testing will be completed by qualified personnel.

6. At a point of discharge into or suction from the recycling containment, the operator shall insure that the liner is protected from excessive hydrostatic force or mechanical damage. External discharge or suction lines shall not penetrate the liner.

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 suction or discharge in and out of the containment. The suction area will be protected by two additional layers of 45-mil string reinforced liners, and will have pumps set on top of 8" concrete pads in the bottom of the pond. The inlet pipe area will be protected by two additional layers of 45-mil string reinforced liner, and the outlet will discharge onto an 8" concrete pad in the bottom of the pond.



7. The operator of a recycling containment shall place a leak detection system between the upper and lower geomembrane liners that shall consist of 200-mil geonet or two feet of compacted soil with a saturated hydraulic conductivity of 1 x 10-5 cm/sec or greater to facilitate drainage. The leak detection system shall consist 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.

The containment has been designed with a leak detection system made up of a conductive geocomposite material, at least 200 mm thick. The pond is comprised of a 45 mil liner base, with a 200 mm geocomposite material for leak detection, and overlaid with an additional 45 mil liner. The bottom of the pond will be sloped to a sump which will have a 2" HDPE pipe inserted between the liners, as seen on the attached *Leak Detection System Details* page. The pipe will be checked during the weekly inspection for the presence of water using a bailer. In the event water is detected in the leak detection sump, the electric-conductivity grid will be utilized to determine the location of the leak.

8. The operator of a recycling containment shall design the containment to prevent run-on of surface water. The containment shall be surrounded by a berm, ditch or other diversion to prevent run-on of surface water.

The containment will be surrounded by a berm to prevent the run-on of surface water.

9. Prior to constructing containment, the operator shall strip and stockpile the topsoil for use as the final cover or fill at the time of closure.

Approximately 6" of topsoil will be stripped and stockpiled for final cover at the time of closure. The topsoil will be stored at an adjacent staging area, represented on the *Figure 4*, and on the attached *Aerial Photograph*.

10. The operator shall post an upright sign no less than 12 inches by 24 inches with lettering not less than two inches in height in a conspicuous place on the fence surrounding the containment. The operator shall post the sign in a manner and location such that a person can easily read the legend. The sign shall provide the following information: the operator's name, the location of the site by quarter-quarter or unit letter, section, township and range, and emergency telephone numbers.

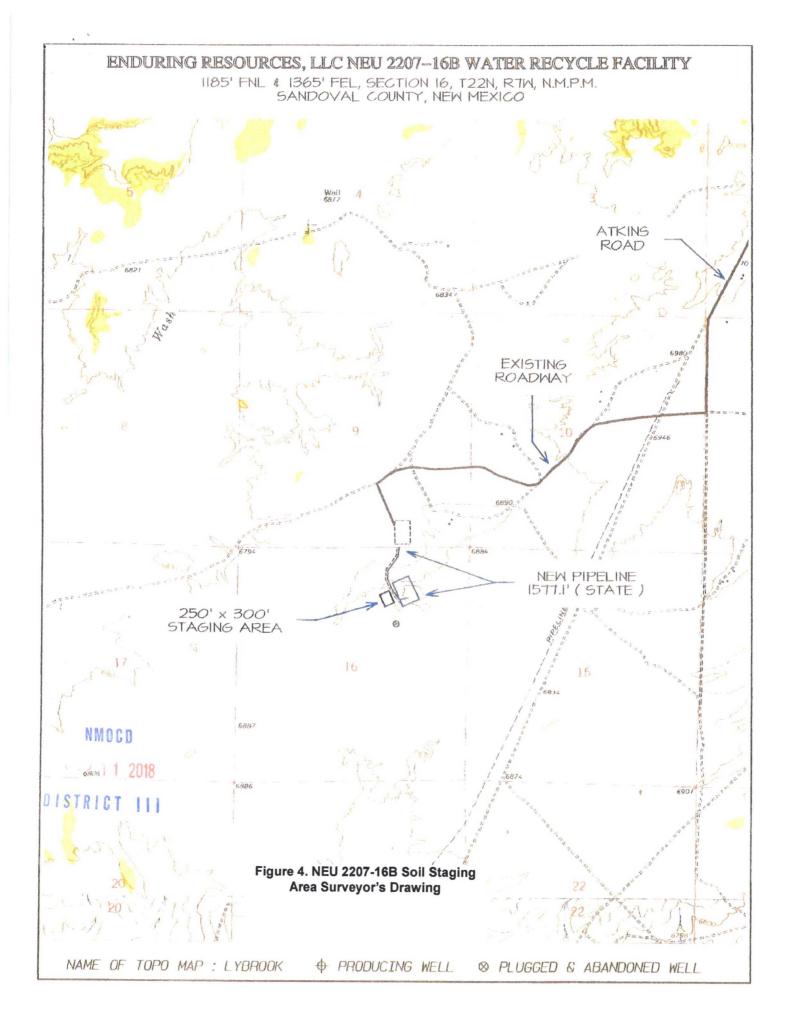
A sign meeting these requirements will be posted.

11. The operator shall fence or enclose a recycling containment in a manner that deters unauthorized wildlife and human access and shall maintain the fences in good repair. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite. Recycling containments shall be fenced with a four foot fence that has at least four strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level.

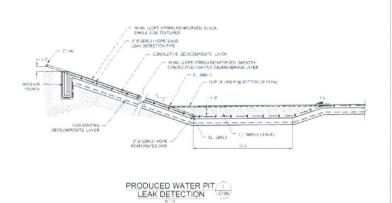
The containment will be surrounded with a six foot, chain link fence topped with barbed wire. All gates leading in and out of the containment will be closed and locked when personnel are not on-site. The fencing will be kept in good repair, and shall be inspected as part of the weekly inspection performed at the containment facility.

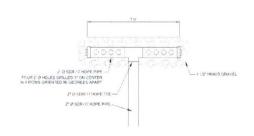
12. The operator shall ensure that a recycling containment is screened, netted or otherwise protective of wildlife, including migratory birds. The operator shall on a monthly basis inspect for and, within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring. Enduring Resources will install a bird deterrent system pursuant to the attached Migratory Bird Mitigation Plan. The containment will be inspected weekly for dead migratory birds, and will report and found accordingly.

DISTRICT III









LEAK DETECTION SYSTEM PIPE DETAIL CTOS



ENDURING RESOURCES NEU 2207-16B WATER RECYCLE FACILITY LEAK DETECTION SYSTEM DETAILS



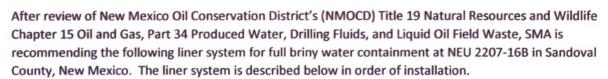
Memorandum

TO: Enduring Resources – Eric Stevens, P.E.

FROM: Souder Miller & Associates – Heather McDaniel, P.E.

DATE: August 29, 2018

RE: Recommended Recycling Containment Liner System



- Per NMOCD 19.15.34.12.2: "a recycling containment shall have a properly constructed foundation and interior slopes consisting of a firm, unyielding base, smooth and free of rocks, debris, sharp edges or irregularities to prevent the liner's rupture or tear." The final subgrade shall be scarified to a minimum depth of 12 inches, moisture conditioned to within 2% +/- Optimum Moisture and compacted to 95% of maximum dry density as determined by a Standard Proctor (ASTM 698).
- Install manufacturer recommended DrainTube gas ventilation geocomposite grid produced by
 Afitex Texel. This layer is intended to vent in situ gases that have potential to create "whales" in
 the produced water pit that would decrease storage capacity. The product consists of a
 drainage layer and a filter layer comprised of short synthetic staple fibers of 100%
 polypropylene needle-punched together with perforated corrugated polypropylene pipes
 regularly spaced, up to 4 pipes per meter, inside. The pipes have two perforations per
 corrugation at 180° and alternating at 90°.
 https://www.draintube.net/docs/en/download/technical_data_sheets/draintube_300p_st_series_fos.pdf
- Per NMOCD 19.15.34.12.4: "Secondary containment liner shall be 30-mil LLDPE string reinforced or equivalent." The secondary containment liner will be 45-mil LLDPE string reinforced with a single sided conductive coating for initial leak detection and shall cover the bottom and sides of the pit including the minimum three (3) feet of freeboard per NMOCD 19.15.17.11.G.9. Integrity of the secondary liner shall be tested using the Conductive-Backed Geomembrane Spark Testing Method (ASTM D7240).
- Install manufacturer recommended Geoconduct 250 geocomposite with a conductive grid between non-woven needle-punched geotextiles produced by Afitex Texel. The product consists of two geotextile layers comprised of short synthetic fibers of 100% polypropylene or polyester which are needle punched together with a structural conductive grid. The conductive grid comprises two conductive inox cables forming a 50 mm x 50 mm network. Geoconduct is compatible with geoelectrical leak location surveys.

https://www.draintube.net/docs/en/download/technical data sheets/geoconduct 250 fos.pd f



- Per NMOCD 19.15.34.12.4: "The primary liners in a recycling containment shall be geomembrane liners composed of an impervious, synthetic material that is resistant to ultraviolet light, petroleum hydrocarbons, salt and acidic and alkaline solutions. All primary liners shall be 30-mil flexible PVC, 45-mil LLDPE string reinforced or 60-mil HDPE liners." The primary containment liner shall be 45-mil LLDPE string reinforced with a single sided texture to increase traction for emergency escape from the pit and shall cover the bottom and sides of the pit including the minimum three (3) feet of freeboard per NMOCD 19.15.17.11.G.9. Integrity of the primary liner shall be tested using the Dipole Method Water Covered Geomembrane (ASTM D7007).
- Per NMOCD 19.15.34.12.2: the liner system shall be anchored as designed in a 2 FT x 2.5 FT anchor trench and topped with 6 inches of road base.
- Owner has also agreed to an annually scheduled leak detection survey of the primary liner utilizing the Dipole Method – Water Covered Geomembrane (ASTM D7007). http://www.linersurvey.net/wp-content/uploads/2013/01/LINER-INTEGRITY-SURVEY-GUIDE.pdf

ENDURING RESOURCES 16B RECYCLING CONTAINMENT PIT PROJECT CONSTRUCTION PLANS

SITE CONTROL

CENTER OF PRODUCED WATER PIT

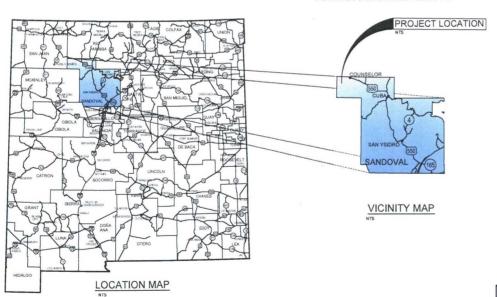
Lat 36°8'39"N Long 107°34'35"W

SECTION 16, TOWNSHIP 22 NORTH, RANGE 7 WEST, NEW MEXICO PRINCIPAL MERIDIAN, SANDOVAL COUNTY, NEW MEXICO



SANDOVAL COUNTY, NEW MEXICO August 2018

PROJECT DESCRIPTION:
NORTH ESCAVADA RECYCLING PIT



SHEET LIST TABLE

SHEET TITLE NUMBER G100 COVER GENERAL NOTES AND LEGEND G101 SITE MAP SITE GRADING AND DRAINAGE PLAN C102 C103 SITE PROFILE SITE CROSS-SECTIONS LINER BALLAST TUBES AND PIT GEOCOMPOSITE VENTILATION GRID LAYOUT C105 C106 GEOCOMPOSITE DETAILS LINER AND BALLAST TUBE DETAILS PIT ACCESS ROAD AND DRAINAGE DETAILS C109 CHAIN LINK SECURITY FENCE DETAILS EROSION CONTROL PLAN SITE EROSION AND SEDIMENTATION CONTROL DETAILS

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION ON BEHALF OF SOUDER, MILLER & ASSOCIATES.

Heather D. McDanul HEATHER D. McDaniel, P.E. NM #2204

DATE







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THE CONTRACTOR SHALL NOTEY ALL UTILITY COMPANIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR COMPLYING WITH NEW MEDICO ONE-CALL PROCEDURES. ANY DAMAGE TO EXISTING UTILITIES MUST BE IMMEDIATELY REPORTED TO THE APPROPRIATE UTILITY COMPANY. TILITY LOCATIONS SHOWN MITHIN THE PROJECT BOUNDARY ARE BASED JUPST THE BEST ANALYSEE ENDESCREET THE PROSTRICT OF THE CONTROL THE PROJECT BOUNDARY FOR BEST BATTER AND AS SHOULD CONSISTENT THE PROSTRICT SHOWN AND THE CONTROL THE PROJECT BOUNDARY FOR SHAPE BASE AS COULD CONSISTENT TO THE ATTENDARY OF THE CONTROL THE CON TOPOGRAPHY SHOWN ON THESE PLANS IS ACCORDING TO FIELD LOCATION BY MCE SURVEYS, INC., JAMES C. EDWARDS P.L.S. #15286 DATED MAY 23, 2018 AND JULY 25, 2018. THROUGHOUT THE LIFE OF THE PROJECT THE CONTRACTOR SALL KEEP LOCAL, OPERATORS AND LANDOWNERS INFORMED IN TIMELY FASHON AS DETERMINED BY THE WOMER'S REPRESENTATIVE OF OSSIGNEE OF ANY LANE CLOSURES WHICH WILL RESTRICT THE KORMAL FLOW OF TRAFFIC, THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. ENSING FINCE SAINS AND OTHER TIEMS OF PRIVATE PROPERTY FOUND TO BE WITHIN THE RIGHT-OF-WAY METO BE REMOVED AND REPLACED AT THE EDGO OF RIGHT-OF-WAY BY THE CONTRACTOR, THIS WORK WILL BE CONSIGERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO MEJ-SURBHENT OF PAYMENT WILL BE MADE THEREFORE PRIAL PAYMENT OF CONCRETE AND REINFORCING BARS SHALL BE BASED ON PLAN QUANTITIES. IF THE DESIGN IS REVISED DURING CONSTRUCTION OF IP. AUMITY CHANNET IS REQUIRED DUE TO ERRORS ON THE PLANS, THE PAYMENT SHALL BE BASED ON COMPUTED FIELD QUANTITIES MEASURED TO NEAT LINES. THE COMPACTION SHALL BE RESPONSELED ON REPORTING MOLICIAN LOS SHALLS ASSOCIATED MYTH PROJECT CONTINUENTIAN AND REPORT WAS REPORTED THE CONTINUENT OF THE CON THE CONTRACTOR WILL REMOVE AND PROTECT ROAD NAME SIGNS DURING CONSTRUCTION AND REPLACE AS SOON AS POSSIBLE AFTER CONSTRUCTION. EMERGENCY ACCESS SHALL REMAIN OPEN AT ALL TIMES. THERE IS NO CONSTRUCTION CIGLAR ZONE FOR THIS PROJECT. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL OUTSIDE OF THE PROJECT BOUNDAISES ON THIS PROJECT. THIS MOVES WHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND IN SEPIANTE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE. THE CONTRACTOR SHALL MANTAN REASONABLE ACCESS TO ALL ADJACED PROPERTIES BY PROQUING EASY RIJANG CONSECTIONS TO THE CONTRACTOR SHALL MANTAN SA DETERMINED ACCEPTABLE BY THE COMEST REPRESENTATIVE OR DESIGNET. THE WAYS WILL BE CONSIDERED INCIDENTAL TO COMPLETION OF THE PROJECT AND NO MEASUREMENT OF PAYMENT WILL BE MADE THEREFORE. ALL DOSTING TRAFFE SIGNS, MILEPOST MARKERS AND DELINENTORS WITHIN CONSTRUCTION LIMIS SHALL BE REMOVED OR OFFSET BY THE CONTRACTOR AS DIRECTED BY THE OWNERS DESIGNED. THE ORBATION SHORS HET TO BE CREET, MOD ALL OTHERS ARE TO BE REMOVED. THAS WORK WILL BE INCLUDED IN THE UNIT BID PRICE FOR REMOVAL OF STRUCTURES AND OBSTRUCTIONS. STOOPHUMA OF TOP SOLL CONTRACTOR SHALL SEGREGATE AND STOOPHUE ALL TOPSOLL CUTTIBED OF THE CONSTRUCTION AREA WITH APPROPRIATE SEDIMENT CONTROL. TOP SOLL SHALL BE REDISTRIBUTED ON THE OLUTISISE OF CONSTRUCTED BERMS, AND ETHER SEEDED MALCHED OR PROTECTED WITH EROSBON CONTROL, BLAWRETS, REFER TO CONSTRUCTION PLANS FOR DETAILS. THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS SET MANUAL. NEW MEXICO 811 LOCATES SHALL BE FIELD VERIFIED BY THE CONTRACTOR CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMAYALS REQUIRED TO CHAPLE THE PROJECT, ACCIDINAL REMAILS OF BOTH THACH THARE FOR REMAYAL OF STRUCTURES AND OBSTRUCTIONS AND THE CONTRACTOR WALL NOT RECENSE ACRITICAL COMPENSATION UNLIFED REMAYALS. CONDITIONS EACH SUBCONTRACTION DOWN WORK ON THE PROJECT SHALL ASSUME SUE AND COMMETER RESPONSIBILITY FOR THE TY OF ALL PERSONS AND PROPERTY THAN THEIR NURK AREAS (D.Y. MOUNT) DURING DITH WARRING AND ANYMORRING HOURS SHALL PROVIDE ALL BARRICADES, SHORING, FLAG MEN, SIGNS, LIGHTING AND OTHER DEVICES REQUIRED THEREOF. ATMOSS ANDOR REQUESTS REGARDING PROJECT INTENT AND MODIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR OR CONSTRUCTION IN A FORMAL MARTIEN REQUEST FOR INFORMATION (RFI). THE ENGINEER SHALL NOT BE HELD UNBLE IF ADVANTION(S) ARE ALTERED BY OTHERS. ACION MALE RESPONSIBLE FOR THE REPAIR AUGOR REPACEMENT OF MY DAMAGE DETERMINED DE CHUSED BY THE TON OF THE PROLECT OF BOADS, EPOCES, DAMAGES, DAMAGES STACTURES, UTLITIES, UNDITED CODOUT, WHIND PER AND PREPONTES, THE CONTRACTOR SHALL REPAIR AUGOR REPACE ALL DESTROYED OR DAMAGED SURFACE IMPROVEMENTS VARIATISE SQUAL TO THOSE REMOVED. LOW THE RECOMMENDATIONS PROVIDED IN THE "SECTES HALL ENGINEERING REPORT STUDY N.
SANGOVAL, COLUNTY INEXT MEDICAL ENGINEERING REPORT STUDY N.
MAXIMUM COMPACTED LIFT DEPTHS, AND MINIMUM COMPACTION REQUIREMENTS FOR THE PROJECT FORTH BY THE TECHNICAL SPECIFICATIONS LOCATED IN THE PROJECT RDINATION WITH UTILITY OWNER IN THE EVENT A SERVICE OUT AGE IS REQUIRED, CONTRACTOR WILL NOTIFY ALL AFFECTED PARTIES WHEN AND HOW LONG THEY WILL BE WITHOUT SERVICE. RECORD DRAWINGS OR WORK COMPLETED SHALL BE SUBMITTED TO ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE INSTALLATIONS. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION DURING STORM CONDITIONS, PROTECTIVE MEASURERS AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT CONTIGUOUS PROPERTIES DURING GRACING OPERATIONS DURING ROUGH GRADING OPERATIONS AND PRIOR TO THE CONSTRUCTION OF ANY PERMANENT DRAINAGE STRUCTURES, TEMP DRAINAGE CONTROL SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO CONTIGUOUS PROPERTIES. SPECIAL CONDITION. IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERAL WALL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE OVENER'S REPRESENTATIVE. NOWINISTRAGIA HE PRROM, OF THESE GRADING PLANS. THE CONTRACTION IS RESPONSIBLE FOR THE PRETENTION OF IMAMET TO ADJACEST PROPERTY. NO FERSION SHALL EXCHAFT OF MAN SO LOSE TO THE PROPERTY LIVE & 57 O SHAMEST MAY SUCH PROPERTY. FROM SETTUNG CRACING, BENSION, SLTING, SCOUR DIS D'HAMEL WHCH MIGHT RESULT PROM THE GRADING DESCRIBED ON THE PLAN. THE EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR UNCLASSIFIED EXCAVATION AND BORROW AS APPLICABLE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE. BACKFILL MATERIALS TO BE PLACED UNDER CONCRETE SUABS SHALL BE A GRANILLAR SOIL EXPANSIVE TYPE SOILS ARE PROHIBITED AS BACKFILL MATERIALS. ENERTHADRE STIMMES ARE ANSED IN COMPATED AND APE AND EMPERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED MATERIAL WAD WALL ASSETS TO EMPLACE WAD READURE THE CORRECT VOLUMES USING LOCKE SOLL CORRECTION FACTORS, NO SEPWANTE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE. THE CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH OTHER DRAWINGS FOR INDIVIDUAL ITEMS. IF ANY, SHALL BE REPORTED BEFORE PROCEEDING WITH THE WORK SO THAT PROPER ADJUSTMENT CAN BE MADE ROADWAY SECTION REPLACEMENT SHALL MEET CURRENT SANDOVAL COUNTY AND UNITED STATES BUREAU OF LAND MANAGEMENT BOOK STANDARDS FOR DEPTH OR MATCH EXISTING DEPTH, WHICHEVER IS THICKER. THE FINISHED GRADE SHALL BE SLOPED AWAY FROM ALL EXTERIOR BUILDING WALLS AND FACILITIES TO PROMOTE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS. NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATER COURSES WILL BE PERMITTED. THE PROJECT MALLAWE ALTERATION, DEPRICATION, AND SUBRADAGE DESIGNT TESTS COMPAFETED BY A GEOTECHACAL ENGINEERING COMPARTY TO VERBY COMPARITION. PROVIDED AND THE PROJECT SUBGRADE AND ANY SEFT SPOTS MALL BE COMPAFED A JON'S THE PROJECT SUBGRADE AND ANY SEFT SPOTS MALL BE READVED AND RECONSTRUCTED BEFORE THE CONTRACTOR BEGINS WORK. ON-STEAM IMPORTED SOILS SHOULD BE COMPACTED AT MOISTURE CONTENTS VIEW ORTHUM.

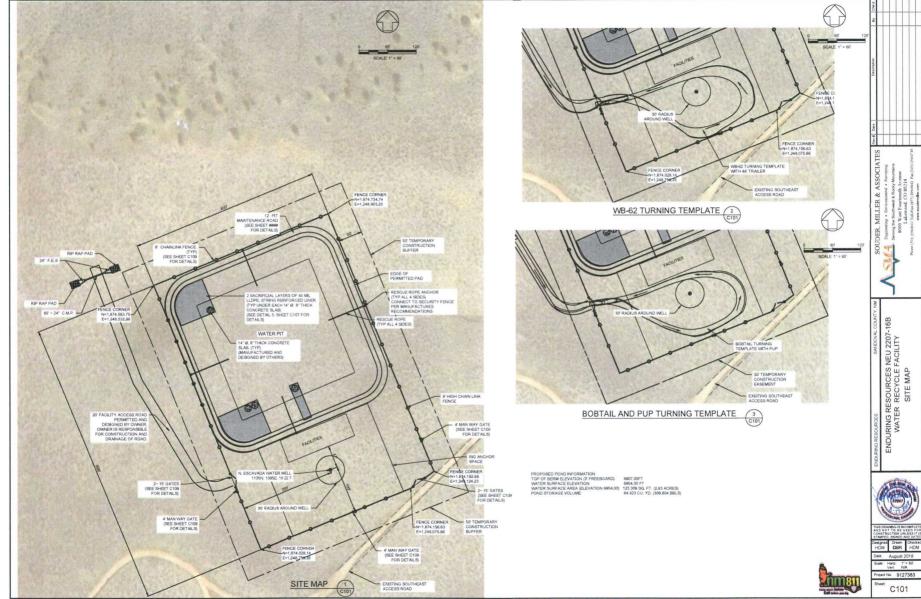
DEBANAMENT FILLS SHOULD BE COMPACTED TO A NUMBRUAN AS DESCRET OF THE MISSIANAM BRY DENSITY AS DET NEAR OPTIMUM MOISTURE CONTENT IN LIFTS NOT EXCEEDING TO MINCHES IN LOOSE THEONESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE PROJECT DURING CONSTRUCTION, ALL STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION. REGORN MAD SEXMETATION CONTROL MEASURES 941, LIB IMPERIENTED MAD SHALL BE RETHY IN PACE UNIT BOOSION AND SEXMENTATION POTERIAL SUTIALIES. DES ASSAUL SE SEXMENT IS SEX SOUNDET IN SEX SEXMENT MAS SECONES HALF THE BESTATO THE SET FEACE. EXOSON AND SEXMENTATION CONTROL DENZES SHALL BE CHECKED AND MANTANED PER THE OWNERS FERMIT. STORM WHER POLLITION PRESENTION PLANS SHALL BE MANAGED BY THE OWNERS, STORM WHERE BEOSON AND SEXMEDITATION CONTROL SHALL BE MARIED CONTRACTOR AND DOCUMENTED BY THE OWNERS TO PROFILET PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEXMEDITATION AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL PROJECT LIMITS AND CONSTRUCTION AREAS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING. PLACE AND COMPACT FILL IN HORIZONTAL LIFTS, USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE REC CONTENTS AND DENSITIES THROUGHOUT THE LIFT. SANDOVAL COUNTY SHALL BE NOTIFIED 72 HOURS PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT OF WAY. MATERIALS SHOULD BE COMPACTED TO THE FOLLOWING RACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD DTINGS AND SLABS ON GRADEBASE BENEATH SLABS AND PAVEMENTS...... (ASTM D898)
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SOUDER MILLER & ASSOCIATES (SMA)
8000 WEST FOURTEENTH AVENUE
LAKEWOOD, COLORADO 80214
(303) 239-9011 ENDURING RESOURCES 332 COUNTY ROAD 3100 AZTEC, NEW MEXICO, 87410 (505) 386-8887 SANTA FE, NEW MEXICO 87501 (505) 827-5760 SURFACE OWNER CIVIL ENGINEER FACILITY/PIT OWNER CUBIC YARDS DIAMETER (Ø) MILLIMETER MATCH EXISTING CUBIC FEET - - EXISTING INTERMEDIATE CONTOURS **,** EXISTING INDEX CONTOURS PROPOSED CHAIN LINK FENCE PROPOSED INTERMEDIATE CONTOURS DSED DRAINAGE PIPE SED INDEX CONTOURS TOE OF BANK SQUARE FEET

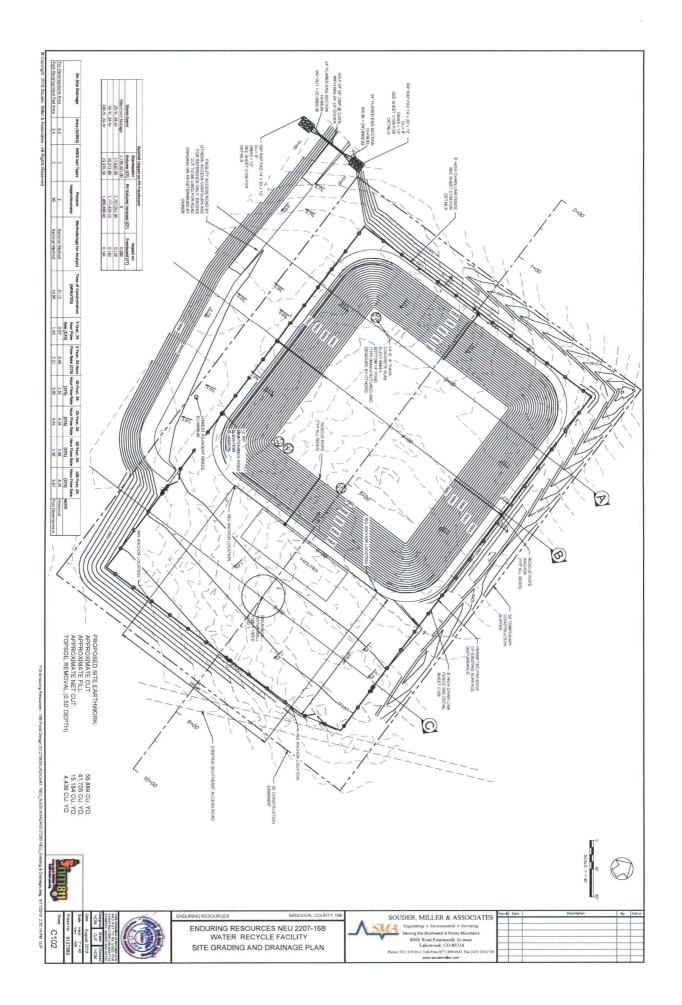
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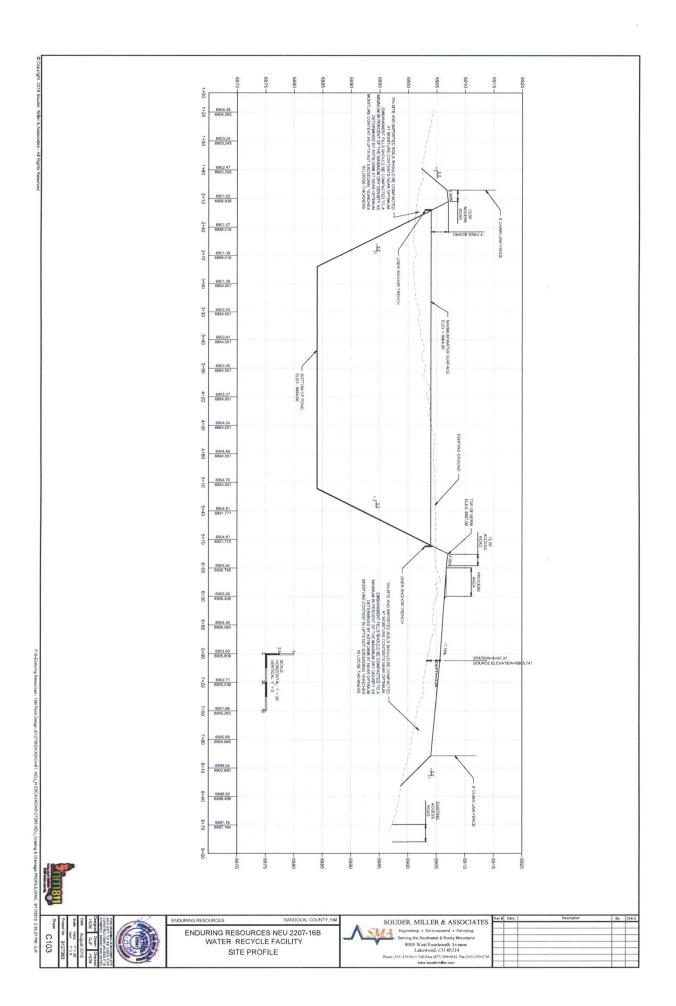
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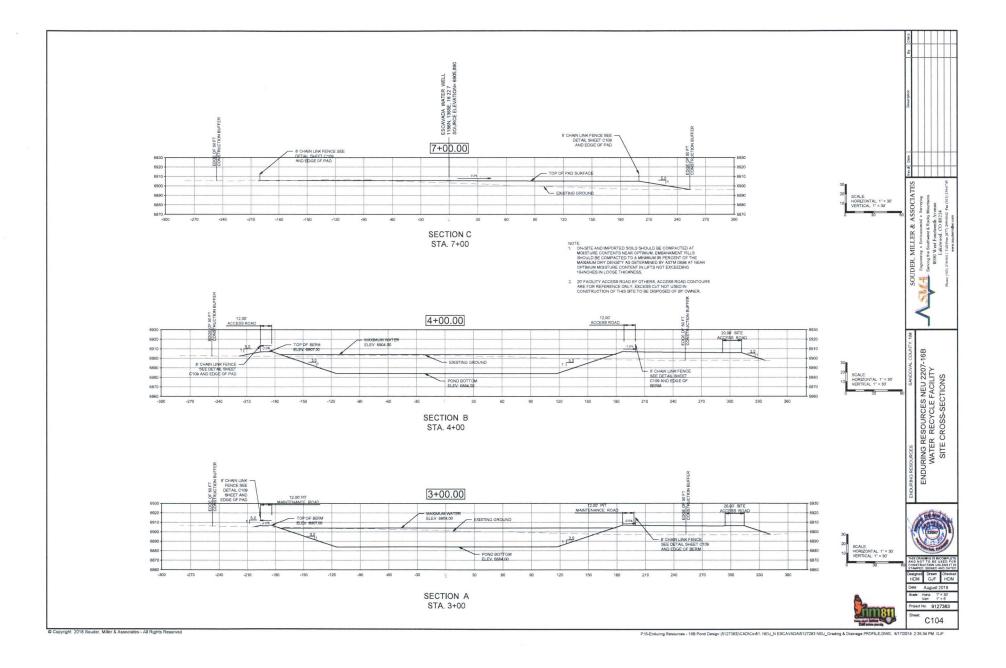
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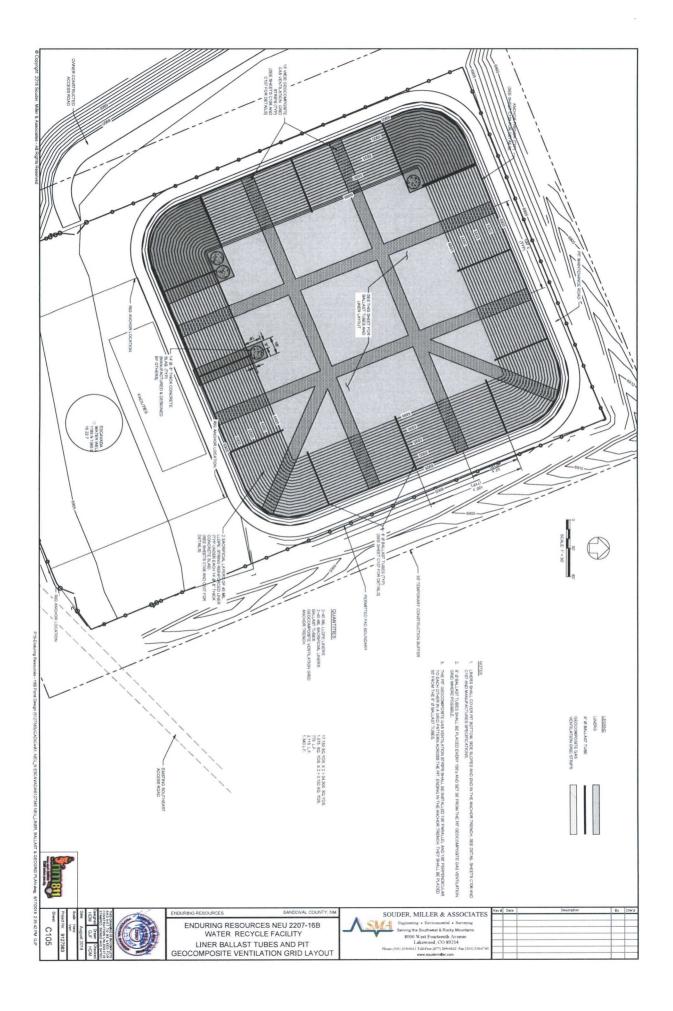


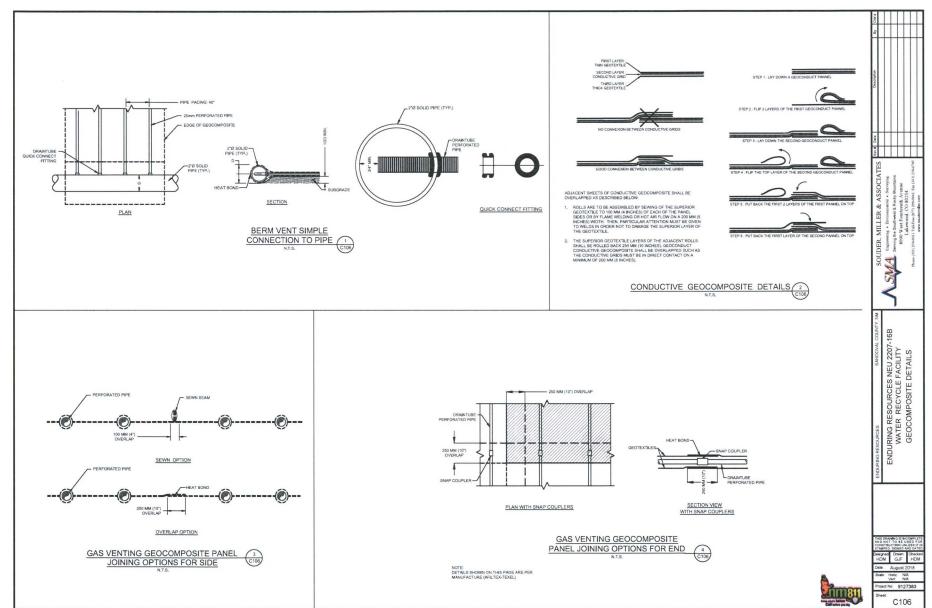


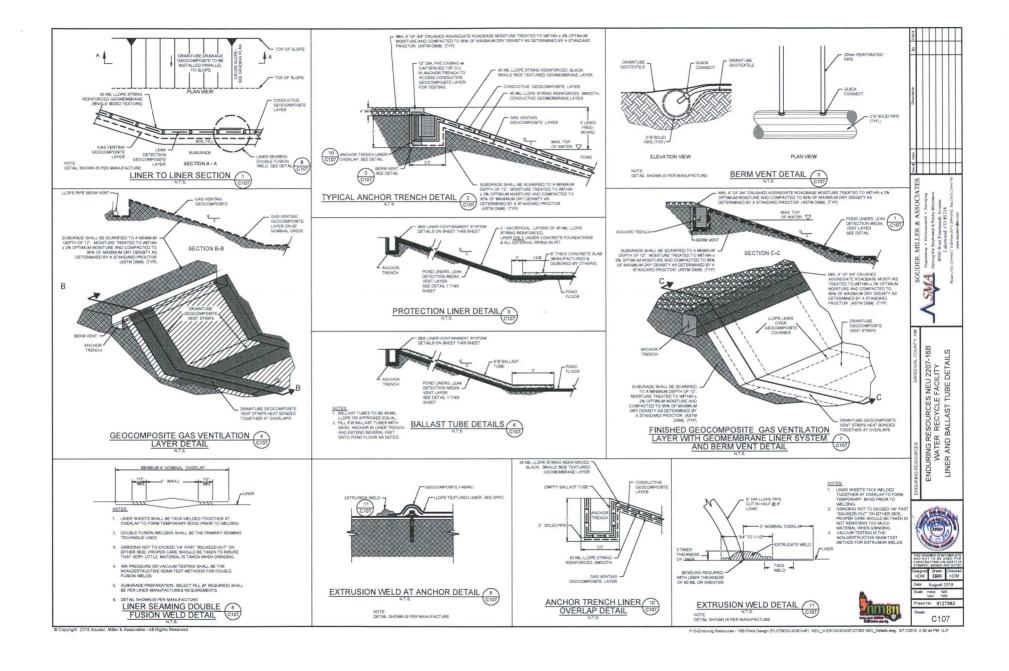


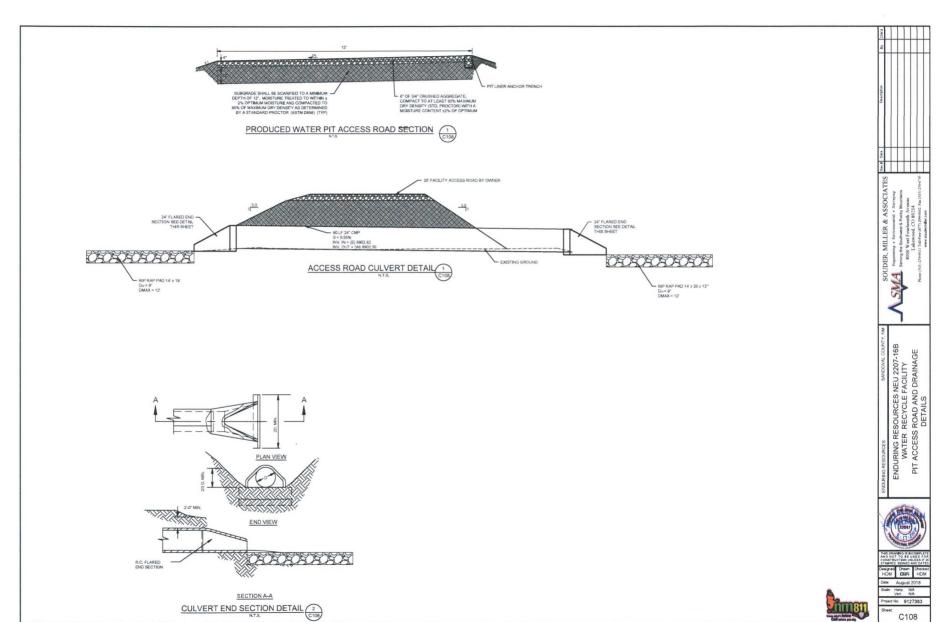


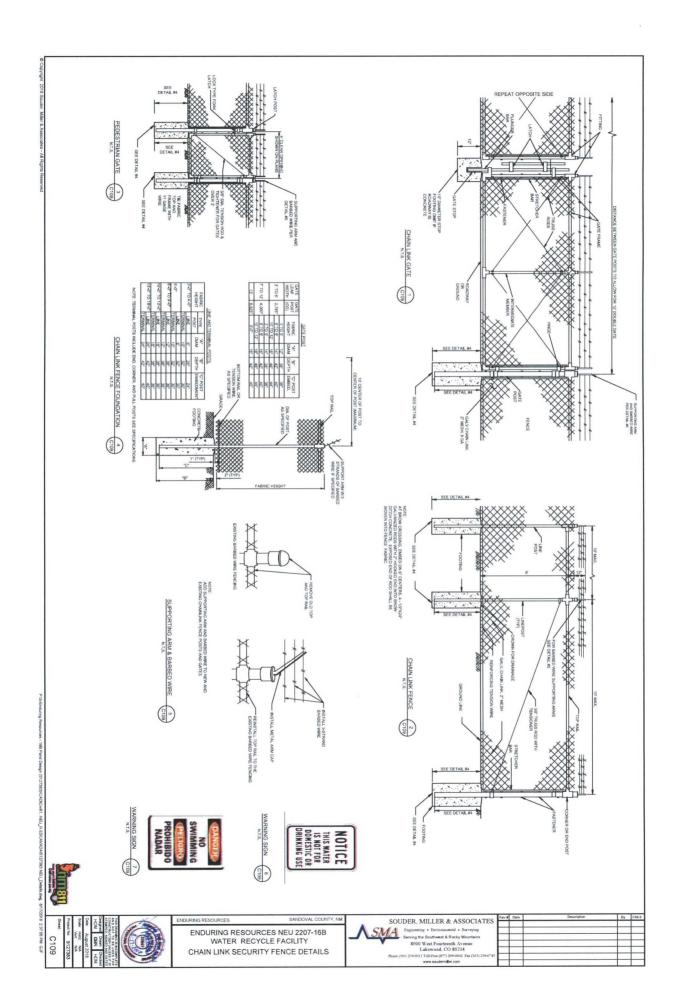


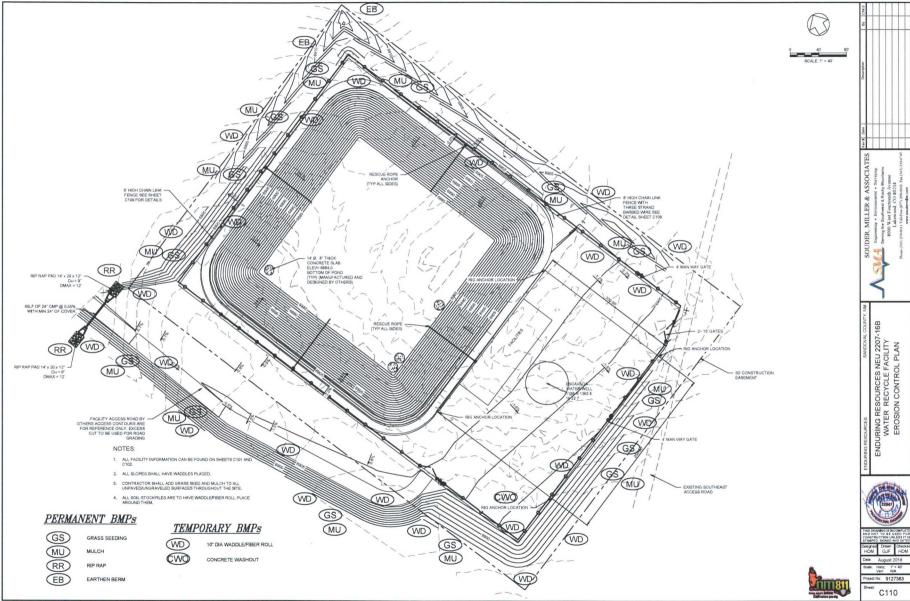


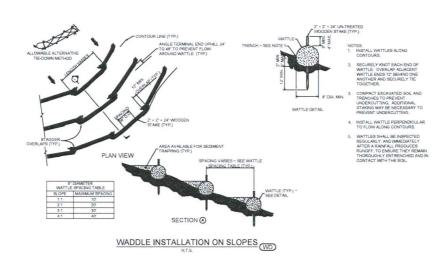


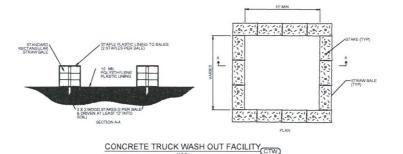












GENERAL NOTES

- 1. SEE SHEET C110 FOR SITE SPECIFIC APPLICATION OF EROSION CONTROL
- EROSION CONTROL SHALL BE IMPLEMENTED TO PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION ACTIVITIES.

- EROSION CONTROL DEVICES SHALL BE CHECKED AFTER EVERY STORM. REPAIRS OF REPLACEMENT TO THE EROSION CONTROL MEASURES SHALL BE MADE AS REQUIRED BY THE OWNERS PERMIT TO MAINTAIN PROPER PROTECTION.
- PERMANENT BEST MANAGEMENT PRACTICES (BMP'S) (I.E. SEEDED, MULCH) MUST BE IMPLEMENTED WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN THE AREA, AS REQUIRED PER THE SWPPP.

- CONTRACTOR SHALL SPREAD STOCKPILED TOPSOIL BEFORE PLACING GRASS SEED AT CUT AND FILL LOCATIONS USING OWNER APPROVED MIX.
- 11. CONTRACTOR SHALL PLACE MULCH IN CONJUNCTION WITH GRASS SEEDING

NOTE

1. SEE SHEETS C110 FOR SITE SPECIFIC APPLICATION OF EROSION CONTROL.

TEMPORARY BMPs



10" DIA WADDLE/FIBER ROLL



CONCRETE WASHOUT

PERMANENT BMPs



GRASS SEEDING MULCH



RIP RAP



EARTHEN BERM



SOUDER, MILLER & ASSOCIATES

ENDURING RESOURCES NEU 2207-16B
WATER RECYCLE FACILITY
SITE EROSION AND SEDIMENTATION
CONTROL DETAILS





Operations and Maintenance Plan

NEU 2207-16B Water Recycle Facility





Enduring Resources, LLC 332 Road 3100 Aztec, New Mexico 87410

Prepared by:
James McDaniel
HSE Supervisor

Introduction

This Operations and Maintenance (O&M) plan is designed to meet the requirements of NMAC 19.15.34.13, which outlines the requirements for O&M of a produced water recycling containment. Enduring Resources, LLC (Enduring) will operate this recycling containment in accordance with the following O&M plan.

Operations and Maintenance Plan

- 1. Enduring will inspect the recycling 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.
- 2. Enduring will remove and visible oil from the surface of the recycling containment upon discovery.
- 3. Enduring will maintain a minimum of three (3) feet of freeboard in the containment at all times.
- 4. Oil absorbent booms will be stored on-site in the event oil is discovered in the recycling containment. The booms will be deployed for the removal of oil if it is discovered.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. The recycling containment will be operated in such a way to prevent the collection of surface water.
- 9. The recycling containment will not be used for the storage or discharge of hazardous waste.
- 10. 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.



Closure Plan

NEU 2207 16B Water Recycle Facility



Enduring Resources, LLC 332 Road 3100 Aztec, New Mexico 87410

Prepared by: James McDaniel HSE Supervisor



Introduction

This closure plan is designed to meet the requirements of NMAC 19.15.34.14, which outlines the requirements for closure of a produced water recycling containment. Enduring Resources, LLC (Enduring) will perform the following actions upon final closure of this produced eater recycling containment.

Closure Plan

- 1. Upon cessation of operations (Defined as the use of less than 20% of the pond's total fluid capacity), Enduring will remove all fluids within 60 days of the official date of cessation.
- 2. Enduring will close the produced water containment within six (6) months from the official date of cessation. If Enduring will require more than 6 months to complete closure activities, an extension request will be filed prior to the six (6) month time limit for closure.
- 3. 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.
 - Removal of all equipment associated with the continued operation of the recycling containment.
 - d. A 5-point composite soil sample will be collected in the containment area under the location of the liner, and the sample will be analyzed for the constituents listed in *Table I*.
 - e. Additional grab samples of any obvious wet or stained areas will be collected and analyzed for the constituents listed in *Table I*, in addition to the 5-point composite sample.
 - f. If the closure sample(s) collected return results equal to or less than the values listed in *Table I*, backfill activities will begin.
 - g. If the closure sample(s) collected return results above 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.
- 4. The surface area of the former containment area will be backfilled with non-waste containing earthen material to a safe and stable condition that blends with the surrounding undisturbed areas. Topsoil and subsoil will be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.
- 5. The area will be reclaimed and reseeded pursuant to the requirements listed in 19.15.34.14.
 - a. Once Enduring has closed the recycling containment, we will reclaim the containment's location to a safe and stable condition that blends with the surrounding undisturbed area and matches the existing grade. Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to prevent ponding and erosion. The disturbed area shall then be reseeded in the first favorable growing season following closure of a recycling containment. Enduring will restore the impacted surface area to the condition that existed prior to the construction of the recycling containment.
 - b. Reclamation of all disturbed areas no longer in use shall be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.
 - c. The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.



- 6. 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 and the details on any backfilling, capping or covering, where applicable. The closure report will certify that all information in the report and attachments is correct and that Enduring has complied with all applicable closure requirements and conditions specified in division rules or directives
- 7. Enduring will notify the NMOCD when the site has been reseeded and has achieved final revegetation.

Table I Closure Criteria for Recycling Containments			
Depth below bottom of containment to groundwater less than 10,000 mg/l TDS	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.

[19.15.34.14 NMAC - N, 3/31/15]



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

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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Deter Birds With Multi-Faceted Sonic and Ultrasonic Attack! The

BroadBand PRO's 4-speaker system simultaneously emits sounds that are both audible and inaudible to humans that confuse, disorient, and intimidate

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Solar Panel Products

Bird Spikes

Ried Stellag (Chr. Stainless Steel Spilves

Bird Netting

Disease Solitors

Drones

Laser Bird Control

Shock Track Systems

Sird Balls

Bird Wire

Visual Scares and Predator Decoys

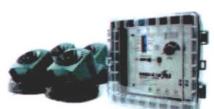
Rivel Gals Tasta Aversions & OvoControl® P

For Sangbird Lovers

Remote Control Orone

Retail Products

Accessories





















Add & Combine

Case Studies

Reviews

Backed by our 30 Day Electronics Performance Satisfaction Guarantee AND our 6-Month Manufacturer's Warranty Analogy Material Defects

- Option to add 3 Visual Scares to package for added efficacy
- · Emits a combination of audible noises & high-frequency sound waves that are silent-to-most-humans
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 - ULTRASONIC: Uses high-frequency sound waves, covers up to 3,600 sq. ft.
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Laser Bird Control

Shock Track Systems

Bird Balls

Bird Wire

Visual Scares and Predator Decoys >

Bird Gels, Taste Aversions, & OvoControl® P

For Songbird Lovers

Remote Control Drone

Retail Products

Accessories









Applications

Benefits







Guaranteed to be manufactured to specifications & free from defect at the time of purchase.

Prowler Owl

- Proven Visual Scare
- Saves Money on Cleanup & Repair
- Eliminates Bird & Small Pest Problems
- Money-Back Guarantee

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 increases effectiveness
- Accurate plumage & hunting flight pose
- intimidating, glassy eyes "follow" pests
- · Flexible wings move & flap in the wind realistically

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

Quantity 1

Price \$ 39.25

Add & Combine

Product Total 1 39-25

ADD TO CART >

· Predator owl replice, life-size owl

Reviews

- · Owl scare repels cest birds & other small animals
- · Always-moving "hunting" posture keeps birds away
- 4-foot wingspan & accurate markings
- · Safe, humane, non-toxic, silent
- · Covers up to 5,000 sq. ft



Call Us 衛時級、海路3、3線34

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impact Products

Interactive Problém Solver

Scare Eye Balloons

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Sonic Bird Control
Ultrasonic Bird Control
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Solar Panel Products Blactmothic Band Combrol

Simple, Highly Effective Bind Repellent
 Reduce Time & Energy Spent on Cleanu
 Seffective Mylar Eyes and Tails included

Staniess Steel Spikes Plantic Spikes Bird Spilan Kits

















*.eep buids away with these simple viny ball visual defements that in the wind & intendant pest brids within visible range.

Specs

Add & Combine

Benefits

ADD TO CART >

Details Reviews

Guaranteed to be manufactured to appecifications and free from defect at the time of purchase.

Shock Track Systems

Bird Balls

laster Bird Control

Predator decoy, 3D balloons
 Three balloons included one (1) white one (1) black and one (1) yellow

Includes mylar eyes, mylar tails, and strings for each balloon
 Weatherproof vinyl, inflatable balloon

Brd Geb, Tatte Aversions, & OvoControl® P

Design exaggerates the glants state and gaping mouth of natural predators
 Wind causes the Scare-Eye Ballopris to move in the wind. Increasing efficacy
 Essy installation.

Remote Control Drone

For Songbird Lovers















