

C-147 REGISTRATION PACKAGE

Nageezi Unit M25 Staging and G-Tank Area Recycling Containment and Recycling Facility

September 2024



ENDURING RESOURCES IV, LLC

DJR Operating, LLC A Subsidiary Company of Enduring Resource, LLC

200 Energy Court
Farmington, New Mexico 87401
Phone: (505) 636-9720

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

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

Form C-147
Revised April 3, 2017

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*
Type of action: ☒ Permit ☒ Registration
☐ Modification ☐ Extension
☐ Closure ☐ Other (explain) _____

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

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

1.
Operator: DJR Operating, LLC (For multiple operators attach page with information) OGRID #: 371838
Address: 200 Energy Court, Farmington, New Mexico 87401
Facility or well name (include API# if associated with a well): Nageezi Unit M25 Staging and G-Tank Area
OCD Permit Number: 3RF-75 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr M Section 25 Township 24N Range 09W County: San Juan
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 36.280341 Longitude -107.748621 NAD83
Proposed Use: ☒ Drilling* ☒ Completion* ☒ Production* ☐ Plugging *
**The re-use of produced water may NOT be used until fresh water zones are cased and cemented*
☐ Other, *requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.*
☒ Fluid Storage
☒ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type _____
☐ Activity permitted under 19.15.36 NMAC explain type: _____ ☐ Other explain _____
☐ For multiple or additional recycling containments, attach design and location information of each containment
☐ **Closure Report (required within 60 days of closure completion):** ☐ Recycling Facility Closure Completion Date: _____

3.
☒ **Recycling Containment:**
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 36.280341 Longitude -107.748621 NAD83
☒ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☐ Liner type: Thickness 40 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☒ String-Reinforced
Liner Seams: ☒ Welded ☒ Factory ☐ Other _____ Volume: 60,000 bbl Dimensions: Diameter 190' x Height 12'
☐ Recycling Containment Closure Completion Date: _____

4.

Bonding:

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

5.

Fencing:

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

6.

Signs:

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

7.

Variances:

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

Check the below box only if a variance is requested:

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

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

8.

Siting Criteria for Recycling Containment

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

General siting

Ground water is less than 50 feet below the bottom of the Recycling Containment. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

9.

Recycling Facility and/or Containment Checklist:

Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

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

10.

Operator Application Certification:

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

Name (Print): Heather Huntington Title: Permitting Technician
 Signature: Heather Huntington Date: 09/03/24
 e-mail address: hhuntington@enduringresources.com Telephone: 505-636-9751

11.

OCD Representative Signature: Victoria Venegas Approval Date: 09/10/2024
 Title: Environmental Specialist OCD Permit Number: 3RF-75

- ☒ OCD Conditions _____
☒ Additional OCD Conditions on Attachment

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C-147 Registration Package

1. INTRODUCTION

Applicant	DJR Operating, LLC - Enduring Resources, LLC & DJR Operating, LLC are wholly owned subsidiaries of Enduring Resources IV, LLC. Leases, rights of ways, wells, and other property interests will continue to be held in their current entity names.
OGRID	371838
Project Name	Nageezi Unit M25 Staging and G-Tank Area Recycling Containment and Recycling Facility
Project Type	Recycling Facility & Recycling Containment
Legal Location	Southwest ¼ of the Southwest ¼ of Section 25, Township 24N, Range 09W
Surface Owner	Federal surface managed by the Bureau of Land Management Farmington Field Office

In accordance with 19.15.34 NMAC, DJR Operating, LLC (DJR) a subsidiary company of Enduring Resources, LLC requests registration of their Nageezi Unit M25 Staging and G-Tank Area (NU M25 Staging Area) Recycling Containment and Recycling Facility through the approval of this C-147 registration and permit package.

The recycling containment will consist of one 60,000 barrel (bbl) above ground storage tank (AST). Per 19.15.34.7 B. NMAC a ***“Recycling containment”*** is a storage containment which incorporates a synthetic liner as the primary and secondary containment device and is used solely in conjunction with a recycling facility for the storage, treatment or recycling of produced water only for the purpose of drilling, completion, production or plugging of wells used in connection with the development of oil or gas or both. This AST containment falls within this definition and must meet all applicable requirements of a Recycling Containment in Rule 19.15.34 NMAC.

The recycling facility will consist of up to thirty 400 bbl vertical frac tanks with a consolidated volume of 12,000 bbls to treat (mechanical and chemical reconditioning process) produced water for reuse. DJR will only set as many tanks are anticipated to be needed based on incoming volumes and extent of treatment necessary. As defined in 19.15.34.7 A. NMAC a ***“Recycling facility”*** is a stationary or portable facility used exclusively for the treatment, re-use or recycling of produced water. A recycling facility does not include oilfield equipment such as separators, heater treaters and scrubbers in which produced water may be used. These tanks will be used as upright gun barrel oil water separators. This oil separation process will prevent having any visible layer of oil on the surface of the recycling containment in accordance with Rule 19.15.34.13 B.(1).

Per 19.15.34.9 A. water (produced water and Entrada water) stored/processed through this temporary recycling facility and containment will be used as part of a permitted operation for drilling, completing, and producing DJR Operating, LLC and Enduring Resources, LLC wells.

See Exhibit A for site survey plat and Exhibit B for a site diagram of the proposed AST and recycling facility layout. This facility will not be used for the disposal of produced water.

The NU M25 Staging Area site is located at 36.280341 ° N, -107.748621 ° W, within Section 25, Township 24N, Range 09W, in San Juan County, New Mexico. The site is located on federal lands managed by the Bureau of Land Management Farmington Field Office (BLM FFO). DJR is the operator of the applicable oil and gas mineral rights at this location.

BLM FFO has been notified and approved of this site for water storage and water recycling. This staging area and G-tank site was planned as associated infrastructure to DJR's Nageezi Unit M25 well pad project and permitted via five approved Applications for Permit to Drill from this location. See Exhibit C, approved Form 3160-3 Application for Permit to Drill or Reenter for the Nageezi Unit 207H (30-0458-38299) one of the five approved APDs detailing use of this staging area and G-tank site. Additionally, per New Mexico Oil Conservation Division (NMOCD) Form C-147, DJR will provide A copy of this registration package to the BLM FFO concurrently with the submittal to the division.

C-147 Registration Package

This document provides supplemental information to NMOCD Form C-147 that is required for registration, including siting criteria and demonstrations, design and construction plans, operating and maintenance plans, closure plan, closure and site reclamation requirements, and surface owner notification.

Upon approval of this registration, the recycling containment located at this facility will be operated for up to five years.

If the AST containment is found to be needed beyond five years, DJR will submit annual extensions to NMOCD on Form C-147 at least 30 days prior to expiration. The extension request will include a summary of all monthly inspections of the containment, including monitoring of the leak detection system indicating that the containment's integrity has not been compromised.

2. SITING CRITERIA

2.1. Depth to Groundwater 19.15.34.11 A.(1)

Per 19.15.34.11 B. NMAC, DJR requests use of POD 1 SJ-04587 in the Northeast ¼ of the Southwest ¼ of Section 25, Township 24N, Range 09W. This water well was drilled to a total depth of 800 feet with depth to ground water measured at 640 feet. This water well is located approximately 1,700 feet northeast of the NU M25 Staging Area. With the proposed containment being an AST sitting above ground level, the groundwater depth is greater than 50 feet below the bottom of the recycling containment. See Exhibit D for the water well summary. Additional average depth to ground water information can be found below for Township 24 North Range 09 West.

Average, Minimum, and Maximum depth to ground water within T24N R09W = 742', 515', 1073'

2.2. Distance to Surface Water 19.15.34.11 A.(2)

There are no continuously flowing watercourses within 300 feet; nor, any lakebeds, sinkholes, or playa lakes within 200 feet of the proposed ASTs as shown in Exhibit E Map 2.

There is one mapped USGS blue line drainage within 200 feet of the staging pad area as seen in Exhibit E Map 2. DJR contracted SWCA Environmental Consultants in August of 2024 to assess all surrounding drainages per 19.15.34.11 A.(2) NMAC. In the report provided to DJR titled, *Aquatic Resources Delineation Technical Memorandum*. SWCA Summarized the following. This report is attached hereto as Exhibit F:

Based on the regulatory considerations provided in Section 2, evaluation of the survey area and observed aquatic resources, and SWCA's understanding of the USACE Albuquerque District's current policies regarding jurisdictional determinations, it is SWCA's professional opinion that, per the 2023 Amended Rule, no features present within the survey area would be considered jurisdictional WOTUS by the USACE. Erosional features, as those observed in the survey area, are excluded from WOTUS jurisdiction (40 Code of Federal Regulations 120.2(b)(8)).

Pursuant to 19.15.34 NMAC, no OHWMs were observed within 200 feet of the project area. Therefore, no significant watercourse is likely to occur within 200 feet of the proposed recycling containment. Additionally, neither the project area nor the survey area intersect a FEMA 100-year flood zone.

Thus, this drainage was found to be non-jurisdictional and non-significant during field investigations August 13, 2024 resulting in no significant drainages within 200 feet of the recycling containment.

2.3. Distance to Structures 19.15.34.11 A.(3)

The recycling facility/containment is not located within 1,000 feet of a permanent residence, school, hospital, institution, or church in existence at the time of this application. As shown on the aerial map in Exhibit E Map 2, there are no permanent residences, schools, hospitals, institutions, or churches within the 1000-foot buffer ring of the pad. A field visit verified there has been no new structure erected since the aerial imagery was obtained.

2.4. Distance to Non-Public Water Supply and Springs 19.15.34.11 A.(4)

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 this application as shown on Exhibit E Map 1 and 2. Map 1 shows wells and springs/seeps regardless of use type in the surrounding area and Map 2 shows that no water wells, springs, or seeps are located within the 500-foot buffer of the pad. The nearest fresh water well according to New Mexico Office of the State Engineer (NM-OSE) is referenced above in subsection 2.1 at 1,700 feet away. Nearest spring/seep according to the National Hydrologic Dataset (NHD) is 5.06 miles North-Northwest.

2.5. Distance to Municipal Boundaries and Defined Municipal Fresh Water Well Fields 19.15.34.11 A.(5)

The recycling facility is not within any incorporated municipal boundaries nor within a defined municipal fresh water well field covered by a municipal ordinance adopted pursuant to Section 3- 27-3 NMSA 1978, as amended. Please see Exhibit E Map 1 showing the nearest municipal boundary being Bloomfield New Mexico approximately 28 miles North-Northwest.

2.6. Distance to Wetland 19.15.34.11 A.(6)

The recycling facility/containment is not located within 500 feet of a wetland as seen in Exhibit E Map 2 and additional evidence provided in Exhibit F.

Upon field investigation it was determined that there were no hydric soils or hydrophytes indicative of wetland habitat. Nor was there cottonwood, willow, elm, invasive salt cedar or russian olive trees indicative of riparian habitat. Nearby drainages have no defined bed and bank and no isolated pockets or pools to hold water. Vegetation in and along drainages was typical of the surrounding shrubland habitat. There was no vegetative transition to wetland species near or along the drainage.

2.7. Distance to Subsurface Mines 19.15.34.11 A.(7)

According to New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Mining and Minerals Divisions database, there are no subsurface mines in Township 24N, Range 9W, San Juan County, New Mexico. See Exhibit E Map 1 showing mines regardless of status near the project area. The nearest EMNRD recorded permit (being a withdrawn permit) is a Humate pit approximately 19.31 miles south-southeast.

2.8. Site Stability 19.15.34.11 A.(8)

The recycling containment is not located in an unstable area. DJR's construction practices will provide adequate compaction of the pad surface for the anticipated load of the recycling facility and AST containment.

The following additional best management practices are implemented during pad construction to prevent equipment settling and ensure site stability.

- Prior to earthwork, all trees (if applicable) and slash/brush, is mulched and incorporated into the topsoil. Tree roots and trucks are removed from the site. The topsoil (vegetative root layer) and mulched organic matter is stripped from location and windrowed along the perimeter of location. Topsoil is not used for pad construction as the organic matter mixed within the soil prevents adequate compaction.
- Subsoil horizons are then utilized to construct a balanced (high areas are cut and used to fill low areas) location. Fill slopes are deposited and compacted in approximate 6-inch lifts with optimal soil moisture content.
- If soil is deemed too wet from inclement weather, it is not utilized as adequate compaction cannot be achieved. Additionally, if construction occurs during winter months, the frost layer if applicable is stripped and sub frost line soil horizons are utilized for construction to achieve adequate compaction that will not settle with warming temperatures.
- Cut and fill slopes around location are 3:1 or better to ensure surface and slope stability.
- The windrowed topsoil and any additional diversions found to be necessary are used to prevent surface sheet flow from entering location.
- Each AST containment will have a properly constructed foundation consisting of a firm, unyielding base, smooth and free of rocks, debris, sharp edges or irregularities to prevent the liner's rupture or tear.

Other factors contributing to site stability include:

- Per 19.15.34.11 A.(7) the location is not in an area overlying a subsurface mine according to the New Mexico EMNRD Mining and Minerals Divisions database.
- This area of New Mexico is not known for underlying caves and karst features.

2.9. Distance to 100-Year Floodplain 19.15.34.11 A.(9)

The recycling facility/containment is not located within a 100-year (1% annual) floodplain. As shown in Exhibit E Map 2, the project is in Zone X (area of minimal flood hazard). The nearest 100-year flood hazard area shown in Exhibit E Map 2 is 2,800 feet Northeast.

3. DESIGN AND CONSTRUCTION SPECIFICATIONS

Pursuant to 19.15.34.12 NMAC, the following Design Plan presents the minimum standards and specifications for the design and construction of the proposed recycling containment at the NU M25 Staging Area. The facility and recycling containment have been designed to prevent releases and potential overtopping due to wave action (by wind) or rainfall. To supplement the information provided below, the manufacturers specifications for the design and construction of the aboveground containment are provided as Exhibit G.

3.1. Foundation Construction

The containment AST will be constructed on DJR's existing Nageezi Unit M25 Staging and G-Tank pad. The AST footprint will have a properly constructed foundation 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 containment will ensure confinement of produced water, to prevent releases and to prevent overtopping due to wave action or rainfall. Geotextile is used under the liner to reduce localized stress-strain or protuberances that otherwise may compromise the liner's integrity. The containment is above ground and is not subject to water run-on.

3.2. Liner and Leak Detection

The containment will be Well Water Solutions and Rentals, Inc. double-lined frac water tank system. These tank systems are designed to incorporate a 40-mil thickness LLDPE primary (upper) string-reinforced liner and a 30-mil LLDPE secondary (lower) string-reinforced liner. The primary liner is designed to be impervious, synthetic material that will resist deterioration by ultraviolet light, petroleum hydrocarbons, salt solutions, and acidic/alkaline solutions. Liners meet or exceed the compatibility requirements of EPA SW-846 Method 9090A. Steel bolts secure the liners to the top of the AST tank. Specifications provided by Well Water Solutions and Rentals, Inc. are attached as Exhibit G.

Liner seams are minimized and are oriented vertically up and down the containment walls, not horizontally across the containment. Factory welded seams are incorporated, where possible. Field seams, welding, and testing on the geosynthetic liners is performed by a manufacturer qualified person. For any field welded seams, liners will overlap 4 to 6 inches and be thermally sealed. Field seams are avoided or minimized in corners and irregularly shaped areas.

At a points of discharge into, or suction from, the recycling containment, the liner is protected from excessive hydrostatic force or mechanical damage. External discharge or suction lines do not penetrate the liners.

A leak detection system is installed between the upper and lower liners of the containment and consists of a 200-mil geonet drainage layer. The leak detection system covers the bottom and sides of the containment and includes a minimum of 3 feet of freeboard. A 6-inch PVC pipe is inserted in the sump at the bottom of the containment and between the liners. Each containment is slightly sloped, with the sump placed at the location with the lowest elevation to facilitate the earliest possible leak detection. A schematic of the leak detection system is included in Exhibit G.

The sump piping is checked weekly with a water-level meter to determine if leakage is occurring through the primary liner. If water is detected in the leak detection sump, water will be removed to assess if water returns indicating a leak in the primary liner. Controls for surface water run-on is not needed due to the containment being above ground level.

3.3. Signage

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

3.4. Entrance Protection

Please see variance request attached as Exhibit H.

With the recycling containment being an AST with 12-foot wall height, entrance to containment would have to be intentional. There is no risk of accidental entrance into the containment by wildlife or the public. The site will be maintained to prevent harm to wildlife and the public.

3.5. Netting

DJR will install bird netting provided by the tank manufacturer over the containment. The netting will be inspected monthly for disrepair. The containment will be inspected weekly for dead migratory birds. DJR will report dead migratory birds and/or other wildlife to the appropriate wildlife agency, surface management agency, and NMOCD.

4. MAINTENANCE AND OPERATING PLAN

4.1. Inspection Timing and Maintenance

Pursuant to 19.15.34.13 NMAC, DJR will follow the maintenance and operational requirements described below. At a minimum, DJR will perform weekly inspections on the containment and leak detection system while the containment holds fluid. DJR will maintain records and make them available for review by the NMOCD.

- If fluids are found in the sump, the fluids will be sampled and then pumped out.
- DJR will remove any visible oil from the surface of the containment upon discovery.
- DJR 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, DJR 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, DJR 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 facility 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 facility will not be used for the storage or discharge of hazardous waste.

4.2. Reporting and Record Keeping

During operation of the recycling facility, DJR will keep accurate records and report monthly to the NMOCD the total volume of water received for recycling, with the volume of fresh water received listed separately, and the total volume of water leaving the facility for disposition of use. Water volume totals will be submitted on NMOCD Form C-148. Accurate records identifying the sources and disposition of recycled water will be maintained during the operation of the facility and made available for review to the NMOCD upon request.

4.3. Cessation of Operations

DJR 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. DJR will report cessation of operations to the appropriate NMOCD district office. If additional time is needed for closure, DJR will request an extension from the appropriate NMOCD district office prior to the expiration of the initial six (6) month time period.

5. CLOSURE PLAN

Pursuant to 19.15.34.14 NMAC, the activities summarized below describe the closure and reclamation requirements for the NU M25 Staging Area. Within 60 days of closure completion, DJR will submit a closure report on NMOCD Form C-147 and include required attachments to document all closure activities, sampling results, and details on backfilling, capping, or covering, where applicable.

5.1. Containment Closure

DJR will remove all fluids from the facility and containment within 60 days from the date that operations cease and close the containment from use within six months from the date that DJR ceases operations. Alternatively, DJR can request an extension for the removal of fluids from the NMOCD not to exceed an additional two months. DJR can also request an extension for the closure of the containment, not to exceed an additional six months.

DJR will remove all fluids, contents, synthetic liners, and leak detection piping and transfer these materials to an NMOCD-approved facility for disposal. All other equipment associated with the recycling containment and recycling facility will be removed from the site.

5.2. Closure Soil Sampling

Once the containment is removed, DJR will test the soils beneath 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 the following table:

TABLE 1. CONTAMINATED SOIL TEST CONSTITUENTS

Constituents	Test Method	Groundwater Depth 51 – 100 Feet	Groundwater Depth >100 Feet
Chloride	EPA 300.0	10,000 mg/kg	20,000 mg/kg
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg	2,500 mg/kg
GRO + DRO	EPA SW-846 Method 8015M	1,000 mg/kg	1,000 mg/kg
BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	50 mg/kg
Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg	10 mg/kg

If any contaminant concentration is higher than the parameter limits listed above, the NMOCD may require additional delineation upon review of the results and DJR must receive approval before proceeding with closure. If all contaminant concentrations are less than or equal to the parameter limits listed above, then DJR can proceed to backfill with non-waste containing, uncontaminated, earthen material.

5.3. Reclamation

The location will be reclaimed upon completion of use in accordance with the reclamation plan attached to the Nageezi Unit 207H approved APD. This reclamation plan was developed with, and approved by, the surface managing agency.

EXHIBIT A. PLAT

A

NOTE:
CHENAULT CONSULTING, INC.
IS NOT LIABLE FOR
UNDERGROUND UTILITIES OR
PIPELINES. CONTRACTOR
SHOULD CALL ONE-CALL
FOR LOCATION OF ANY
MARKED OR UNMARKED,
BURIED PIPELINES OR
CABLES ON WELL PAD, IN
CONSTRUCTION ZONE
AND/OR ACCESS ROAD AT
LEAST TWO (2) WORKING
DAYS PRIOR TO
CONSTRUCTION.

CCI

CHENAULT CONSULTING INC.

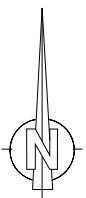
4800 COLLEGE BLVD.
SUITE 201
FARMINGTON, NM 87402
(505) 325-7707

CHENAULT CONSULTING INC.

4800 COLLEGE BLVD.
SUITE 201
FARMINGTON, NM 87402
(505)-325-7707

EXHIBIT B. RECYCLING FACILITY AND RECYCLING CONTAINMENT SITE DIAGRAM

B



100'-0"
1" = 100' on 8.5 x 11 Actual Size

EXHIBIT C. SURFACE OWNER NOTIFICATION

C

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-045-38299
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 01/18/2023


EXHIBIT D. GROUND WATER REPORT

D



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
50115	SJ 04587 POD1		2	3	25	24N	09W	253561	4018930 
<hr/>									
Driller License:	1842	Driller Company:				MW ELECTRIC INC.			
Driller Name:	STOTTS, CHADDD GLENNALL OFF								
Drill Start Date:	02/08/2024	Drill Finish Date:				03/05/2024	Plug Date:		
Log File Date:	03/13/2024	PCW Rev Date:					Source:		Shallow
Pump Type:		Pipe Discharge Size:					Estimated Yield:		10 GPM
Casing Size:	4.75	Depth Well:				800 feet	Depth Water:		640 feet

Water Bearing Stratifications:		Top	Bottom	Description
		0	60	Shallow Alluvium/Basin Fill
		60	400	Shale/Mudstone/Siltstone
		400	500	Sandstone/Gravel/Conglomerate
		500	640	Sandstone/Gravel/Conglomerate
		640	670	Sandstone/Gravel/Conglomerate
		670	700	Sandstone/Gravel/Conglomerate
		700	800	Sandstone/Gravel/Conglomerate

Casing Perforations:		Top	Bottom
		0	640
		640	670
		670	700
		700	800

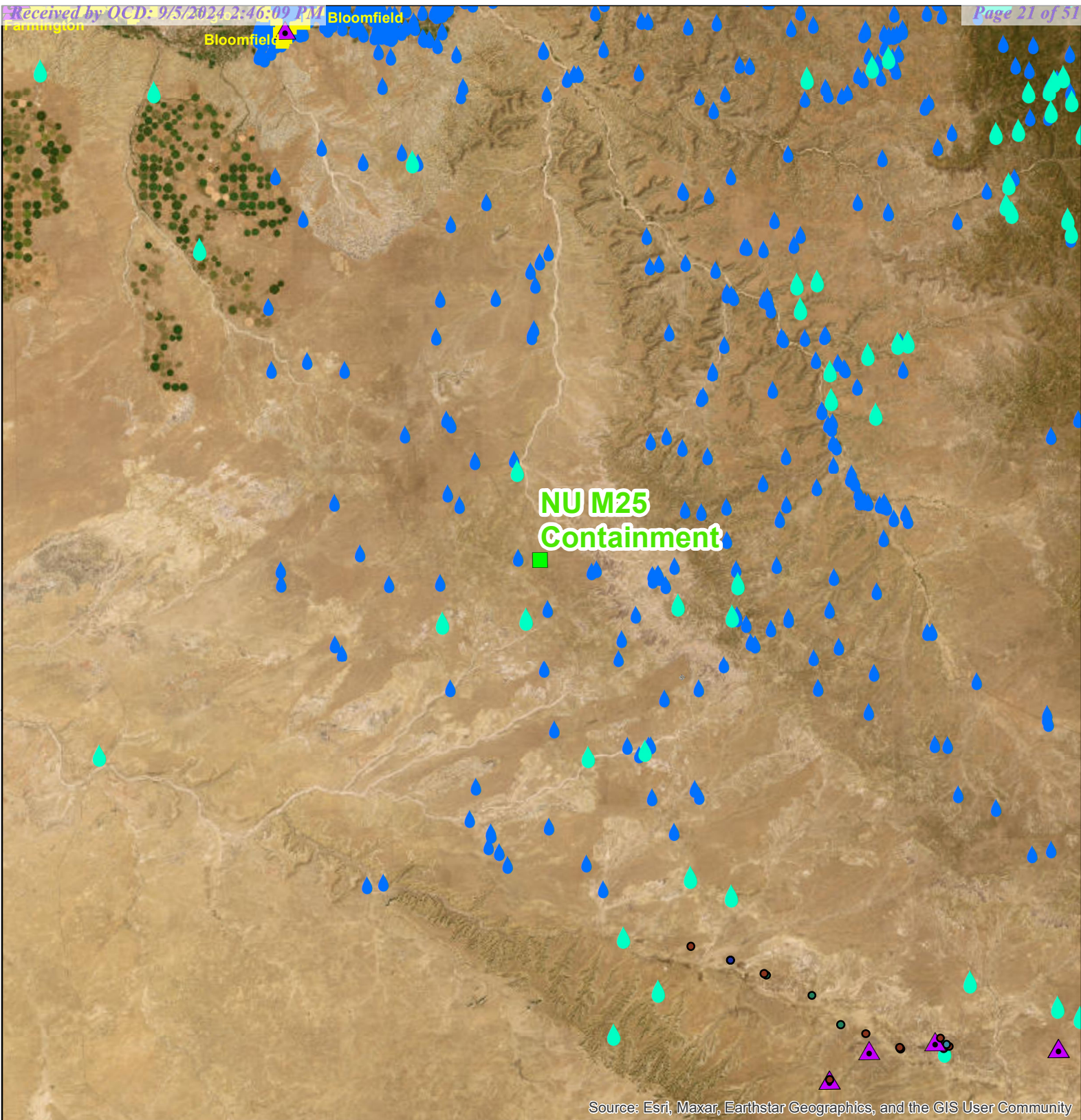
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/10/24 2:58 PM

POINT OF DIVERSION SUMMARY

EXHIBIT E. SITING CRITERIA MAPS

E



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

NU M25 Containment Location Map1

Siting Criteria

- Active Mining
- Active Mining, Active Reclamation
- Approved
- Enforcement
- No Permit
- No Response
- Pending
- Released
- Temporary Suspension
- Under Development
- OSE Water Wells
- Spring Seep
- New_Mexico_incorporated_places_April2023



ENDURING
RESOURCES, LLC



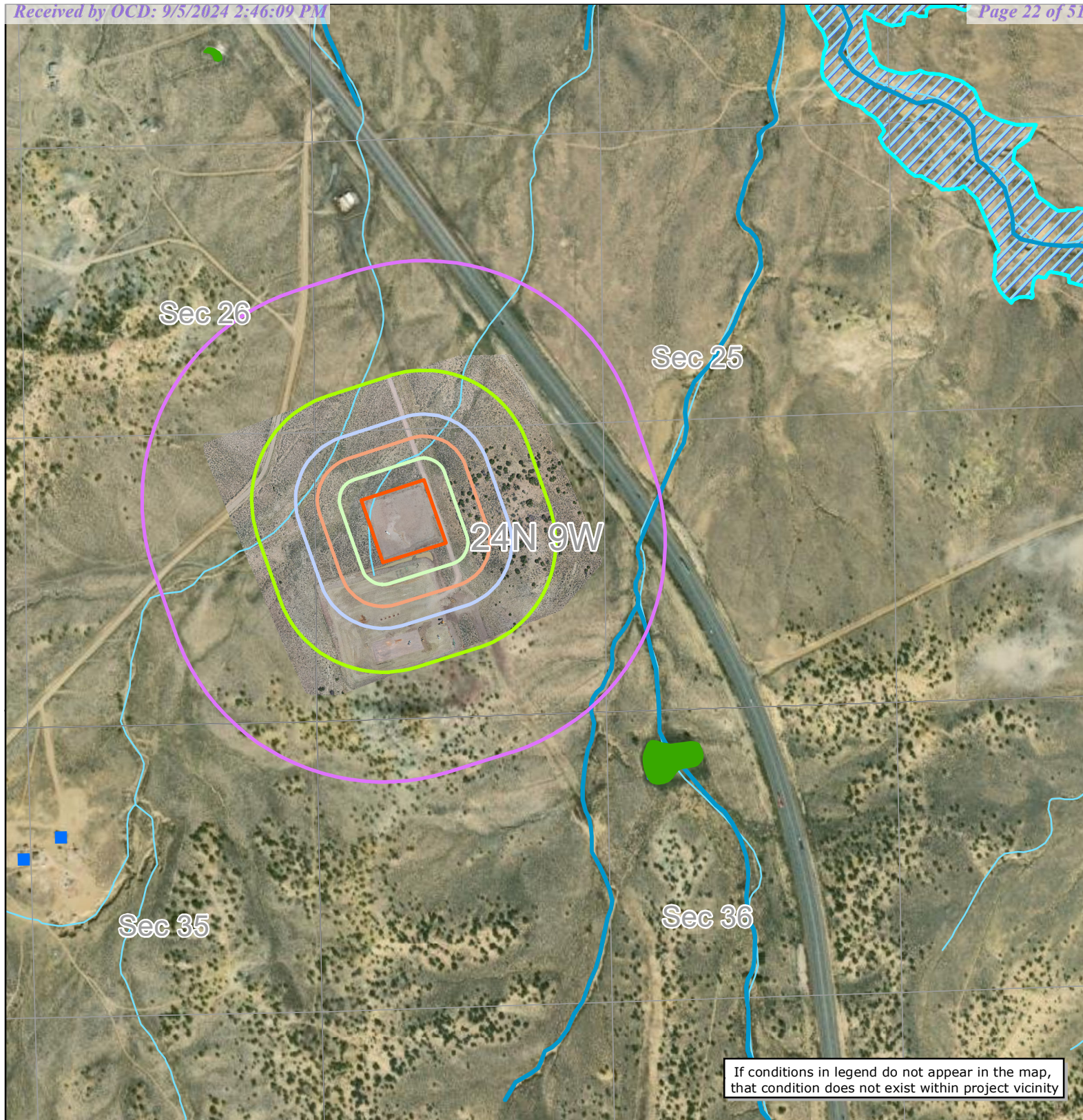
Data Source Statement:
BLM-FFO, Enduring Resources GIS, ESRI Inc.,
NCE Surveys, USGS

Released to Imaging: 9/10/2024 11:43:34 AM

NAD 1983 2011 StatePlane New Mexico West FIPS 3003 Ft US

Author: drogers

Date: 8/23/2024



NU M25 Containment Location Map 2

Siting Criteria

- | | | |
|--------------------|-----------------------------------|----------------------------|
| OSE_wells_AOI | Active Mining | USA_Wetlands |
| Spring Seep | Active Mining, Active Reclamation | Marine |
| Residence | Approved | Estuary |
| NU M25 | Enforcement | Marsh, Swamp, Bog, Prairie |
| 100 | No Permit | Riverine |
| 200 | No Response | Lake, Reservoir |
| 300 | Pending | NHDWaterbody |
| 500 | Released | FEMA High Risk Flood Zone |
| 1000 | Temporary Suspension | |
| USGS Water Courses | Under Development | |

Released to Imaging: 9/10/2024 11:43:34 AM

NAD 1983 2011 StatePlane New Mexico West FIPS 3003 Ft US

Author: drogers

Date: 8/23/2024



**ENDURING
RESOURCES, LLC**



Data Source Statement:
BLM-FFO, Enduring Resources GIS, ESRI Inc.,
NCE Surveys, USGS

EXHIBIT F. AQUATIC RESOURCES DELINEATION TECHNICAL MEMORANDUM

F



7770 Jefferson Street NE, Suite 410
Albuquerque, New Mexico 87109
Tel 505.254.1115 Fax 505.254.1116
www.swca.com

AQUATIC RESOURCES DELINEATION TECHNICAL MEMORANDUM

To: Casey Haga, Enduring Resources IV, LLC

From: SWCA Environmental Consultants

Date: August 30, 2024

Re: **Enduring's Nageezi Unit M25 Project in San Juan County, New Mexico, Aquatic Resources Delineation Technical Memorandum / SWCA Project No. 75253-101**

1. INTRODUCTION

SWCA Environmental Consultants (SWCA) was retained by Enduring Resources IV, LLC (Enduring), to complete an aquatic resources delineation survey, commonly referred to as a wetland delineation, and associated technical memorandum for a recycling containment facility associated with the Nageezi Unit M25 Project (project) in San Juan County, New Mexico. The project area comprises 10.7 acres of land managed by the Bureau of Land Management Farmington Field Office. The project components consist of one well pad, one G-tank and staging area, and an access road (project area) (see Figure A-1 in Appendix A). A survey area that consists of the project area plus a 200-foot buffer was evaluated for aquatic resources. The approximate center point of the survey area is at latitude 36.279088°, longitude -107.748806°.

The goal of conducting this aquatic resources delineation survey was to identify the potential presence and extent of features that may be jurisdictional waters of the United States (WOTUS) under Section 404 of the Clean Water Act (CWA) of 1972, as amended (*Federal Register* 88:61964). A delineation of aquatic resources includes the identification and recording of features, if present, that may be determined to be WOTUS by the U.S. Army Corps of Engineers (USACE).

SWCA prepared this aquatic resources delineation technical memorandum, which summarizes aquatic resources desktop and field data, to support Enduring's application for permit or registration specific to 19.15.34 New Mexico Administrative Code (NMAC) via Form C-147. This technical memorandum serves as a record of existing aquatic resources that may be determined to be WOTUS, including wetlands and aquatic resources exhibiting an ordinary high-water mark (OHWM) in accordance with the USACE methods and guidance. The NMAC does not provide methods or guidance on determining watercourses or wetlands.

Regulatory considerations, survey methodology, survey results, and a summary are presented below.

2. Regulatory Considerations

Waters of the United States

On September 8, 2023, the “Revised Definition of ‘Waters of the United States’” rule as amended (2023 Amended Rule) (*Federal Register* 88:61964) went into effect and is currently applicable in the State of New Mexico.

WOTUS regulations, including the current 2023 Amended Rule, do not clearly define the differences between flow duration regimes (i.e., ephemeral, intermittent, and perennial). Because the 2023 Amended Rule removes the former significant nexus test, we no longer have a tool to assess connectivity for certain features where continuous connectivity is questionable. Currently, the USACE is developing guidance for how districts will assess non-relatively permanent waters and non-adjacent wetland waters (*Federal Register* 88:61964).

In general, WOTUS include traditional navigable waters, wetlands adjacent to traditional navigable waters, and relatively permanent waters defined as tributaries and wetlands adjacent to navigable waters that have a continuous surface connection and standing or continuously flowing bodies of water (U.S. Environmental Protection Agency 2024).

Wetlands are special aquatic sites defined by the USACE as “areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions” (USACE 1987). To meet the basic definition of a wetland, an area must contain the following three parameters under normal circumstances: 1) the presence of wetland hydrology indicators showing regular inundation, 2) a dominance of hydrophytic (water-loving) vegetation, and 3) soil characteristics and indicators of frequent saturation (i.e., hydric soils) (USACE 1987).

SWCA evaluated the presence/absence and characteristics of field-delineated surface aquatic resources to develop a professional opinion of potential WOTUS jurisdiction based on the 2023 Amended Rule and current guidance received by the USACE Albuquerque District at the time this document was prepared. The USACE has the regulatory authority and discretion in determining the jurisdictional status of aquatic resources at a given site.

19.15.34 New Mexico Administrative Code

19.15.34 NMAC applies to the transportation, disposal, recycling, reuse, or the direct surface or subsurface disposition by use of water produced or used in connection with the development or production of oil or gas or both; in road construction or maintenance, or other construction; and in the generation of electricity or in other industrial processes. 19.15.34 NMAC also applies to the transportation of drilling fluids and liquid oil field waste.

A permit or registration, depending on the proposed activity, for recycling and reuse of produced water, drilling fluids, and liquid oil field waste including recycling containment is required via New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division’s (NMOCD’s) Form C-147.

Enduring is proposing recycling containment as part of the project, requiring compliance with 19.15.34 NMAC. As defined in 19.15.34.10(B) recycling containments may hold produced water for use in connection with drilling, completion, producing, or processing oil or gas or both. Such fluids may include fresh water, brackish water, recycled and treated water, fluids added to water to facilitate well drilling or completion, water produced with oil and gas, flowback from operations, water generated by an oil or gas

processing facility, or other waters that are gathered for well drilling or completion but may not include any hazardous waste. Form C-147 siting criteria require that a recycling containment not be located:

- where groundwater is less than 50 feet below the bottom of the containment;
- 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 OHWM);
- within 500 feet of a spring or freshwater well used for domestic or stock watering purposes in existence at the time of the initial registration;
- within incorporated municipal boundaries or within a defined municipal freshwater well field covered by a municipal ordinance adopted pursuant to Section 3-27-3 New Mexico Statutes 1978, as amended, unless the municipality specifically approves the recycling containment in writing;
- within 500 feet of a wetland; or
- within a 100-year floodplain.

Watercourse is defined in 19.15.2.7 NMAC as “a river, creek, arroyo, canyon, draw or wash or other channel having definite banks and bed with visible evidence of the occasional flow of water.” Wetlands are defined in 19.15.2.7 NMAC as “areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions in New Mexico.” The term “significant” is not defined in NMAC.

3. METHODOLOGY

The aquatic resources inventory included a desktop review of existing data and a field survey of the project area plus the 200-foot buffer as requested by Enduring (Haga 2024), as described below.

3.1 Existing Data Review

A desktop review of existing publicly available data prior to the aquatic resources field survey was completed to evaluate surface aquatic resources within and adjacent to the proposed project area.

Sources reviewed included the U.S. Geological Survey (USGS) National Hydrography Dataset (NHD) (USGS 2016), U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps (USFWS 2024), Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (FEMA 2024), Natural Resources Conservation Service (NRCS) Web Soil Survey (NRCS 2024a) and hydrologic soil groups (NRCS 2024b), historic and current aerial imagery of the project area (Google Earth Pro 2024), and the USGS Watershed Boundary Dataset (USGS 2021). SWCA used the USACE's Antecedent Precipitation Tool (Version 2.0.0) (USACE 2023) to evaluate the conditions leading up to, and during, the site visit relative to normal conditions, seasonality, and typical-year considerations.

3.2 Field Survey

3.2.1 Wetlands

The presence/absence of wetlands is determined in the field using delineation methods described in the *Corps of Engineers Wetlands Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (Regional Supplement) (USACE 2008a). Data at each potential wetland are recorded on Regional Supplement wetland determination data forms (data sheets). Determination of wetland habitat type is based on the

classification system developed by Cowardin et al. (1979). Wetland plant indicator status is based on the 2020 National Wetland Plant List (USACE 2020) for each species and is recorded on data sheets. Soil colors are identified using Munsell Soil Color Charts (Munsell Color 2010). Wetland boundaries are delineated where the three fundamental characteristics of hydrophytic vegetation, hydric soils, and hydrology are present.

3.2.2 Non-wetland Waters

The presence and extent of non-wetland water features (e.g., streams, creeks, and ponds) was determined in the field using the guidance and methods provided in the USACE Regulatory Guidance Letter 05-05 (USACE 2005) and the USACE technical guidance, *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b). An OHWM is the line on a shore or bank established by fluctuations of water and is typically identified by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas. The spatial extent of non-wetland waters was delineated using the identified OHWM for each feature.

For stream features exhibiting an OHWM, SWCA conducted a streamflow duration assessment in the field using *User Manual for a Beta Streamflow Duration Assessment Method for the Arid West of the United States* (Mazor et al. 2023). The Streamflow Duration Assessment Method (SDAM) is a rapid, field-based method to determine flow duration class at the reach scale in the absence of long-term hydrologic data. Use of the SDAM may inform a range of activities where information on streamflow duration is useful, including certain jurisdictional determinations under the CWA; however, the SDAM is not a jurisdictional determination (Mazor et al. 2023). The method is specific to the Arid West Region and relies on five indicators to determine stream flow classification: perennial, intermittent, ephemeral, at least intermittent, and need more information. The field delineation crews recorded the status of these five indicators on a field form for every surface water feature in the survey area with an OHWM.

3.2.3 Mapping

A handheld GPS receiver set to submeter accuracy was used to record the spatial extent of features, geographically reference data points, and demarcate wetland and water body boundaries during the field survey. Geographic information system (GIS) software was used to analyze recorded features, calculate areas, and generate the survey area maps.

4. RESULTS

4.1 Existing Data Review Results

The project area is entirely within the Blanco Canyon watershed (Hydrologic Unit Code 1408010305) (USGS 2021). The entire survey area is within FEMA Flood Zone X, an area of minimal flood hazard. The survey area did not intersect FEMA-designated 100-year flood zones (area of special flood hazards). According to the existing data review, no NWI-mapped wetlands intersect the survey area (USFWS 2024). One NHD-mapped flowline intersects the project and survey areas (USGS 2016) (Table 1; also see Figure A-1 in Appendix A).

Enduring's Nageezi Unit M25 Project in San Juan County, New Mexico, Aquatic Resources Delineation Technical Memorandum

Table 1. National Hydrography Dataset and National Wetlands Inventory Features Mapped within the Survey Area

Aquatic Resource (NHD Identifier)	Length (linear feet) in Survey Area	Area (acres) in Survey Area
NHD Flowline		
Intermittent stream/river (14080103003568)	763	—

Source: USGS (2016)

Hydric soils are formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions (NRCS 2024b) and are one of the three fundamental characteristics of wetlands unless problematic conditions exist. There are no mapped soil units in the project area that are considered hydric (Table 2).

Table 2. Mapped Soil Units in the Survey Area

Soil Map Unit Name	Soil Map Unit Number or Symbol	Hydric	Total Acres in Survey Area	Percent of Survey Area
Blancot-Notal association, gently sloping	BT	No	10.4	41.4%
Fruitland-Persayo-Sheppard complex, hilly	FX	No	14.8	58.6%
Total	—	—	25.2	100.0

Source: NRCS (2024a, 2024b)

Based on the results of the Antecedent Precipitation Tool (Product of 14), the project area experienced normal wetness conditions (Table 3) (USACE 2023). The survey was conducted during the dry season, and the drought index was rated as “mild drought.” Any wetland hydrology indicators observed during SWCA’s August 2024 field survey reflect those that would be expected in a typical year for this area.

Table 3. Antecedent Precipitation Tool Results for Survey Area

30 Days Ending	30th Percentile (inches)*	70th Percentile (inches)†	Observed (inches)‡	Wetness Condition§	Condition Value¶	Month Weight*	Product**
August 13, 2024	0.92	2.08	1.15	Normal	2	3	6
July 14, 2024	0.14	0.88	2.35	Wet	3	2	6
June 14, 2024	0.06	0.52	0.27	Normal	2	1	2
Result							14 (Normal)

* 30th percentile represents the lower limit of the 30-year normal range for the month.

† 70th percentile represents the upper limit of the 30-year normal range for the month.

‡ Observed: Total precipitation recorded during the month.

§ Wetness Condition: Observed value above 30-year normal range (wet), observed value less than 30-year normal range (dry).

¶ Condition Value: wet = 3, normal = 2, dry = 1.

* Month Weight: first 30-day period = 3, second 30-day period = 2, third 30-day period = 1.

** Product: Antecedent Condition Calculation (condition value × month weight).

4.2 Field Results

The aquatic resources delineation survey was completed on August 13, 2024. At the time of the survey, the access road was complete and other project components were under construction.

4.2.1 Wetlands

SWCA did not observe or delineate any wetland features during the August 2024 field survey due to the lack of three-parameter wetlands within the survey area. NWI-mapped riverine features investigated in the field were lacking an OHWM or three-parameter wetland characteristics and are likely erosional features from stormwater surface flows.

4.2.2 Non-wetland Waters

No potentially jurisdictional non-wetland waters containing an OHWM were identified within the survey area. The one NHD-mapped flowline intersecting the survey area was field-verified as an isolated erosional feature (EF01) without strong, reliable, and consistent OHWM indicators (see Figure A-1 in Appendix A and Photographs B-1 and B-2 in Appendix B). It was noted that there was some channelization from the feature on the outlet side of a culvert underneath the access road but the channel dissipates to overland sheet flow before it leaves the survey area. Additionally, many erosional rills were evident on the southern portion of the survey area where the grade below the nearby hill was steeper than the rest of the survey area.

5. Summary

Based on the regulatory considerations provided in Section 2, evaluation of the survey area and observed aquatic resources, and SWCA's understanding of the USACE Albuquerque District's current policies regarding jurisdictional determinations, it is SWCA's professional opinion that, per the 2023 Amended Rule, no features present within the survey area would be considered jurisdictional WOTUS by the USACE. Erosional features, as those observed in the survey area, are excluded from WOTUS jurisdiction (40 Code of Federal Regulations 120.2(b)(8)).

Pursuant to 19.15.34 NMAC, no OHWMs were observed within 200 feet of the project area. Therefore, no significant watercourse is likely to occur within 200 feet of the proposed recycling containment. Additionally, neither the project area nor the survey area intersect a FEMA 100-year flood zone.

The results and summary provided are based on SWCA's professional opinion. Only the USACE has final and legal authority for determining the presence of jurisdictional WOTUS and the extent of their boundaries. Only the NMOCD has final and legal authority for determining the presence of continuously flowing watercourses, significant watercourses, or wetlands and the extent of their boundaries for the purposes of permitting and/or registration applicable to 19.15.34 NMAC.

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U.S. Environmental Protection Agency. 2024. Current Implementation of Waters of the United States. Available at: <https://www.epa.gov/wotus/current-implementation-waters-united-states>. Accessed August 2024.

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APPENDIX A

AQUATIC RESOURCES DELINEATION FIGURE

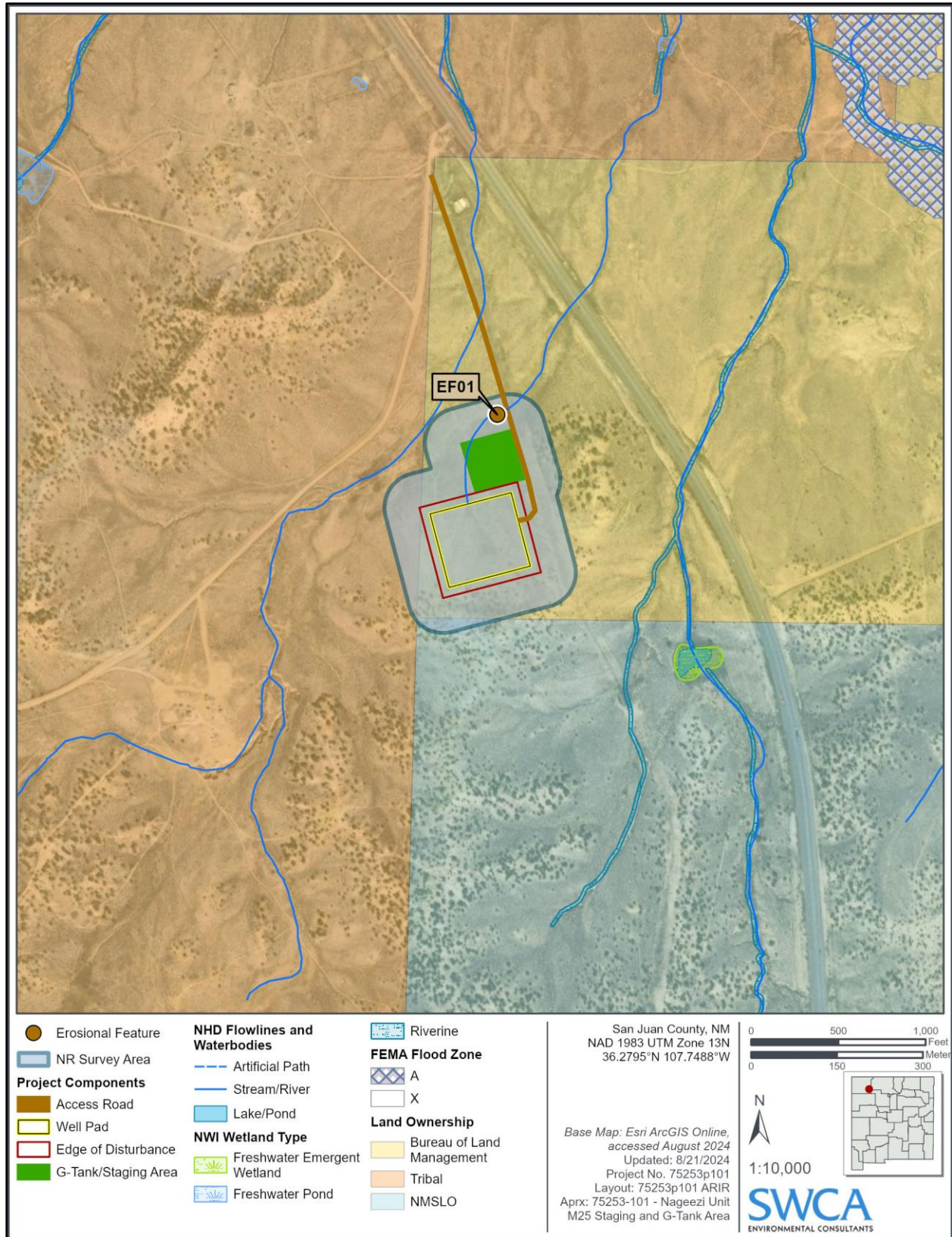


Figure A-1. Overview of desktop aquatic resources data and field-assessed aquatic resources data within the survey area.

APPENDIX B
PHOTOGRAPHS



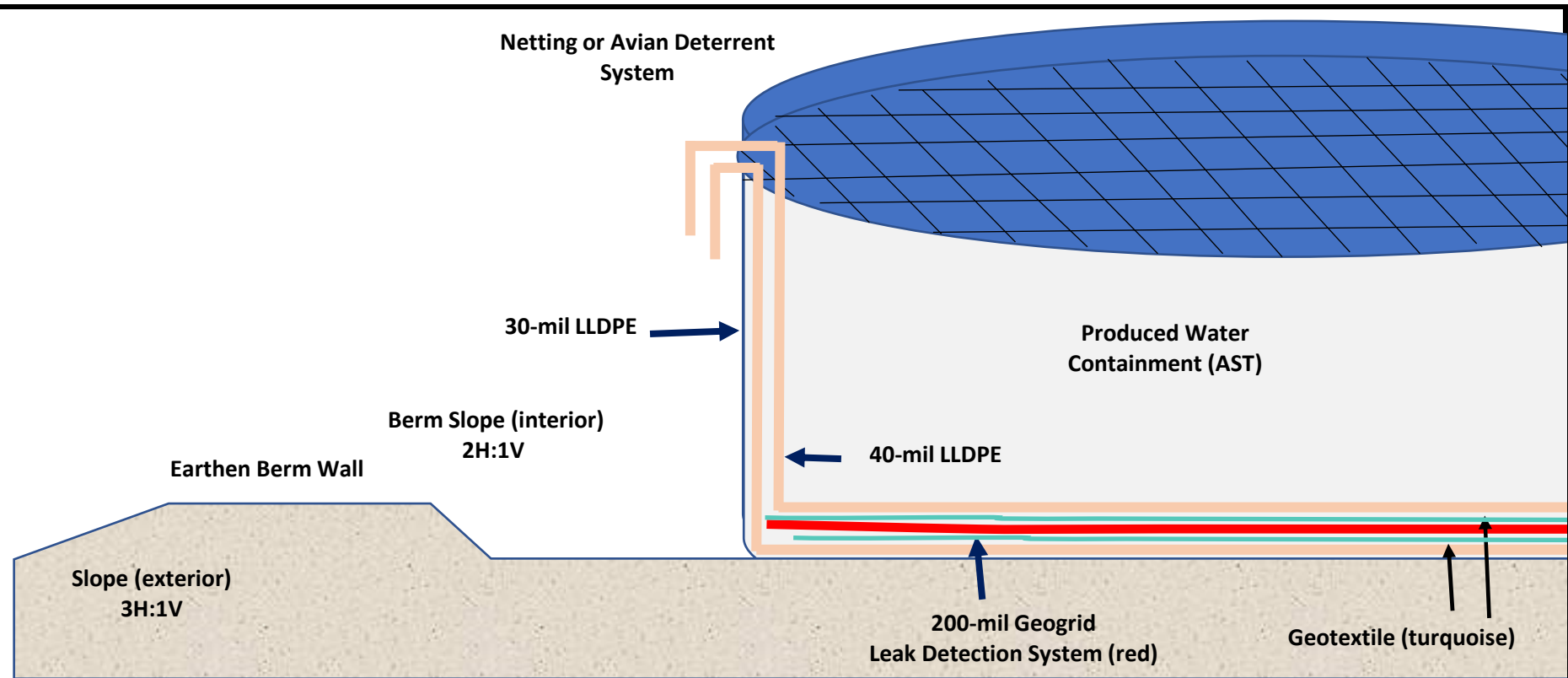
Photograph B-1. Overview of EF01, an erosional feature that does not contain an OHWM, facing upstream (west).



Photograph B-2. Overview of EF01, an erosional feature that does not contain an OHWM, facing downstream (east).

EXHIBIT G. MANUFACTURE SPECIFICATION

G



Description of Leak Detection System

- 40-mil LLDPE comprise primary liner and 30-mil LLDPE comprise the secondary liner
- 200-mil geogrid drainage layer lies between the primary and secondary liner per Plate 2
- Geotextile between the geogrid and each liner
- > 3-inch deep sump excavated on down slope side of AST per Sump Design Drawing
- A small hose runs from the collection sump to top of AST via tube (see Section D)
- Every week, a portable self-priming peristaltic pump connects to the leak detection system.
- The self-priming pump discharge hose runs back into the AST, on top of the primary liner
- If fluid is detected, it is tested for conductance to determine the origin of the water (i.e. produced water or condensation)

R.T. Hicks Consultants
Albuquerque, NM

Design Sketch

Plate 1

Well Water Solutions

May-21

Use laser level to determine slope of pad and low point of AST

200 mil geogrid placed

above 8-oz geotextile and 30-mil secondary liner

inside of AST after set up, before install of primary liner

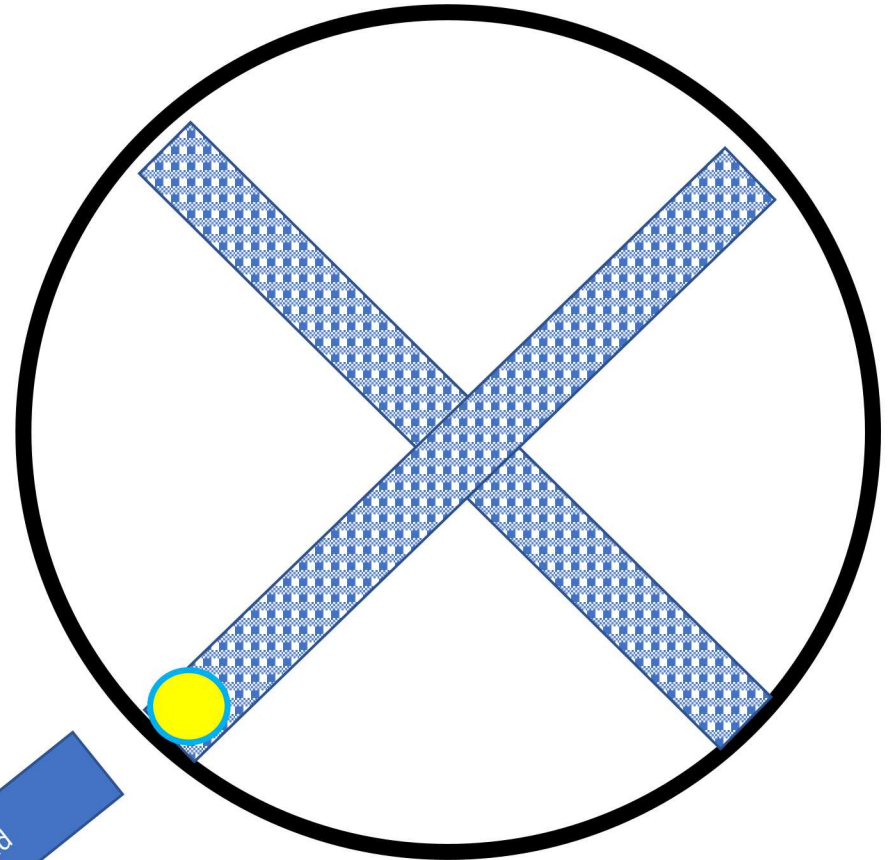
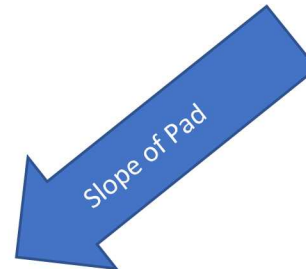
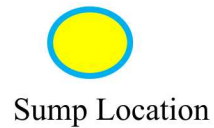
below 40-mil primary liner

8-oz geotextile is placed

over the 30-mil LLDPE liner inside the steel AST ring

under the 40-mil primary liner inside the AST

Sump at lowest point of the AST set up



R.T. Hicks Consultants
Albuquerque, NM

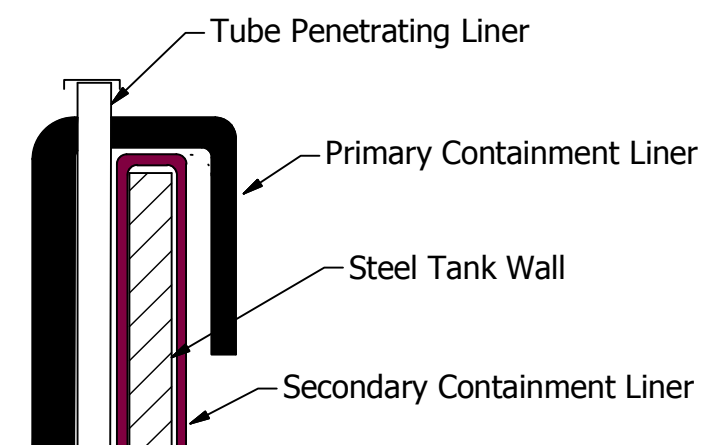
Layout of Geogrid Drainage Mat

Plate 1

WWS - New Mexico Produced Water Set Up

June 2021

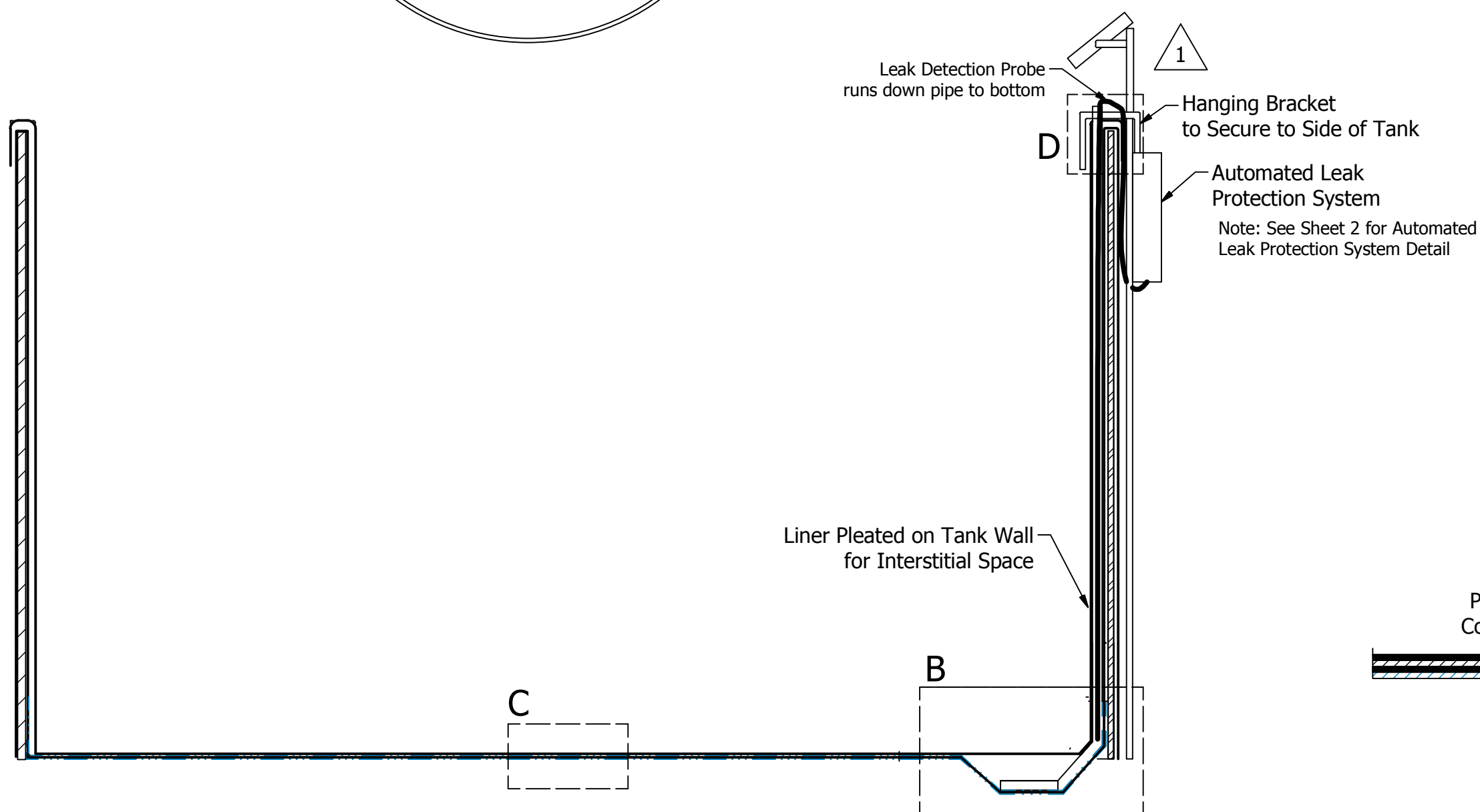
Diagram of a circular tank layout. A central vertical line and a horizontal line intersect at the center. The horizontal line has arrows at both ends pointing towards the tank walls, labeled 'A'. A rectangular sump is located on the horizontal line, 5 feet from the right wall. A label 'X-shaped Sump (to 5' from tank wall)' points to the sump. A triangle with the number '2' is also shown.



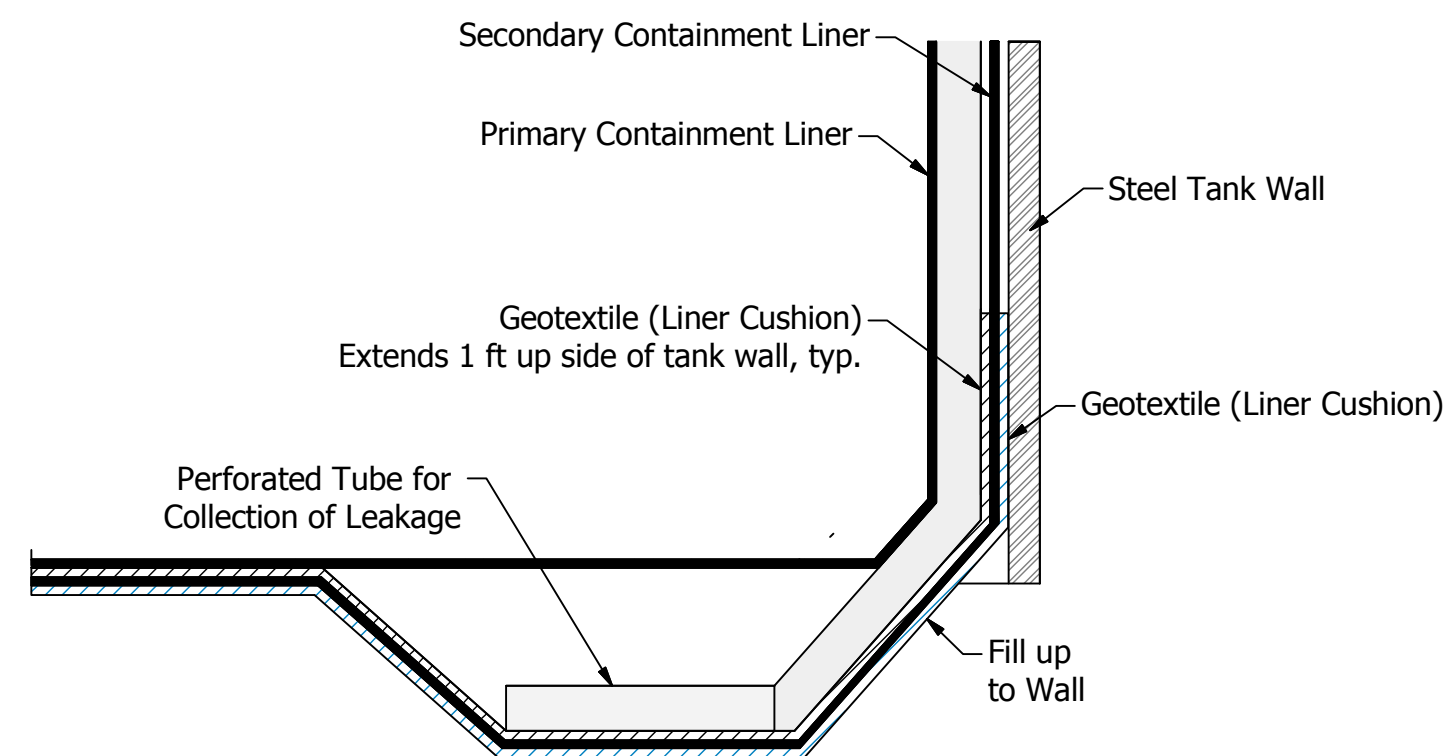
SECTION D

TUBE DETAIL

(Automated Leak Detection System Removed for Clarity)

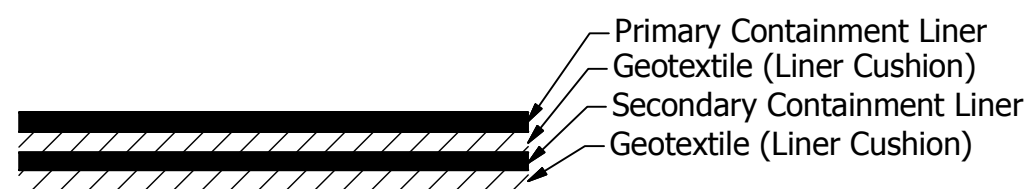


VIEW A-A
TANK DETAIL



SECTION B

SUMP DETAIL




SECTION C

LINER DETAIL

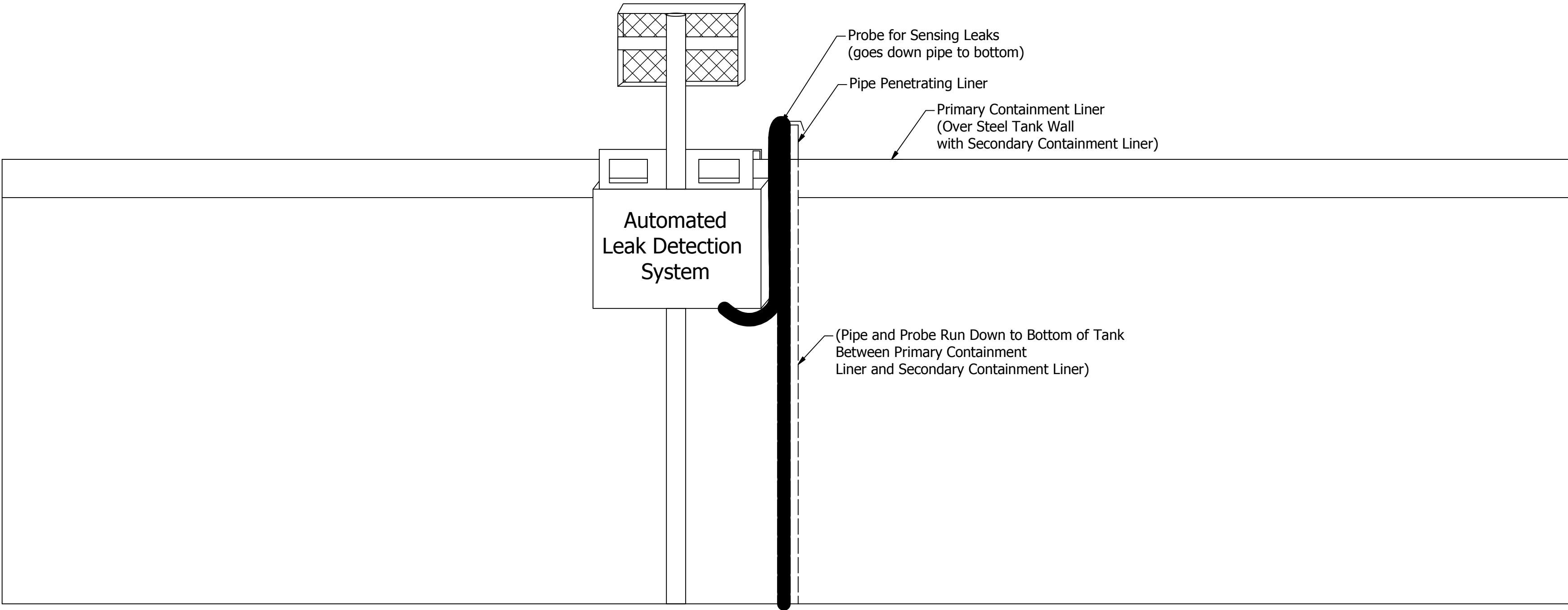



LUCID
DRAFTING & DESIGN LLC
sarah@luciddrafting.com 307.752.7388

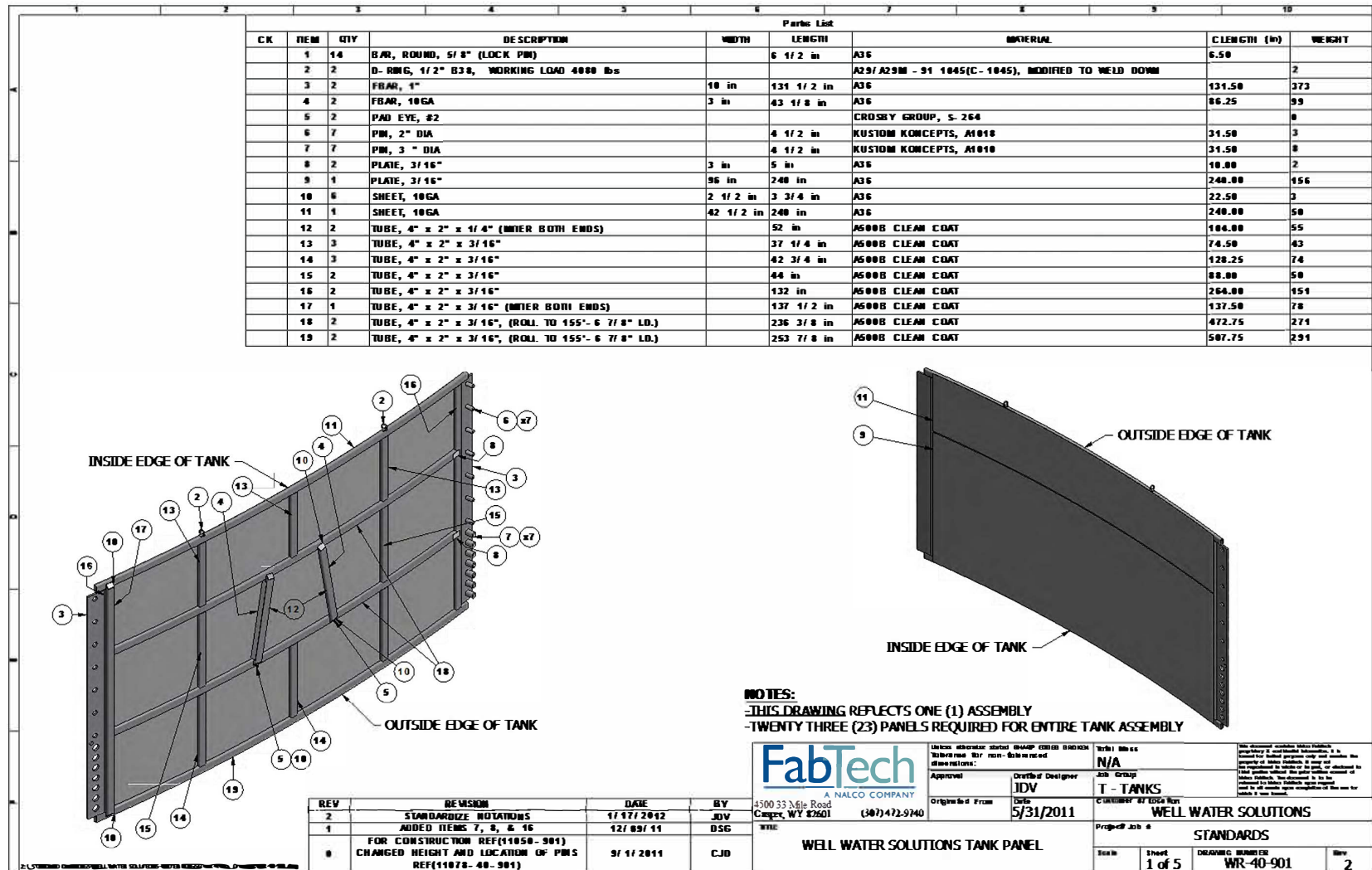
REVISION HISTORY				
REV	DESCRIPTION	DATE	BY	
0	INITIAL DWG	10/29/2015	SES	
1	ADDED LEAK DETECTION SYSTEM	11/6/2015	SES	
2	REVISED SUMP	11/6/2015	SES	
3	ADDED GEOTEXTILE UNDER AND BETWEEN LINERS	11/24/15	SES	

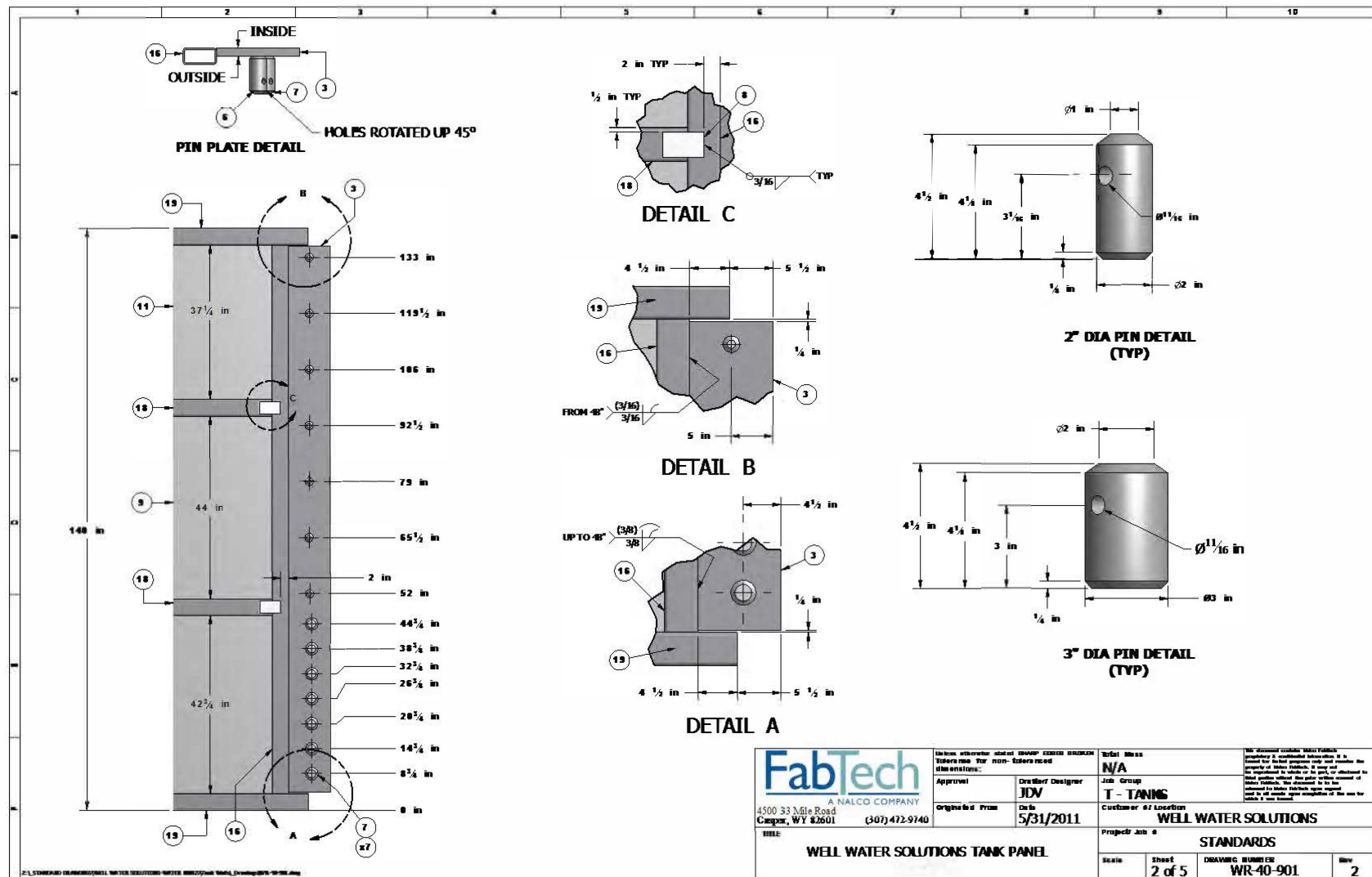
TITLE					
Double-Lined Frac Tank System					
CUSTOMER					
PROJECT/JOB WWS Double-Lined Tank System					
APPROVAL					
DRAFTER SES	DATE 10/28/2015	SIZE C		DWG NO LDD15-WWS-02	REV 3
THIS DOCUMENT IS THE PROPERTY OF WWS AND MAY NOT BE REPRODUCED OR DISTRIBUTED TO THIRD PARTIES WITHOUT THE PRIOR CONSENT OF WWS.				SHEET 1 OF 2	

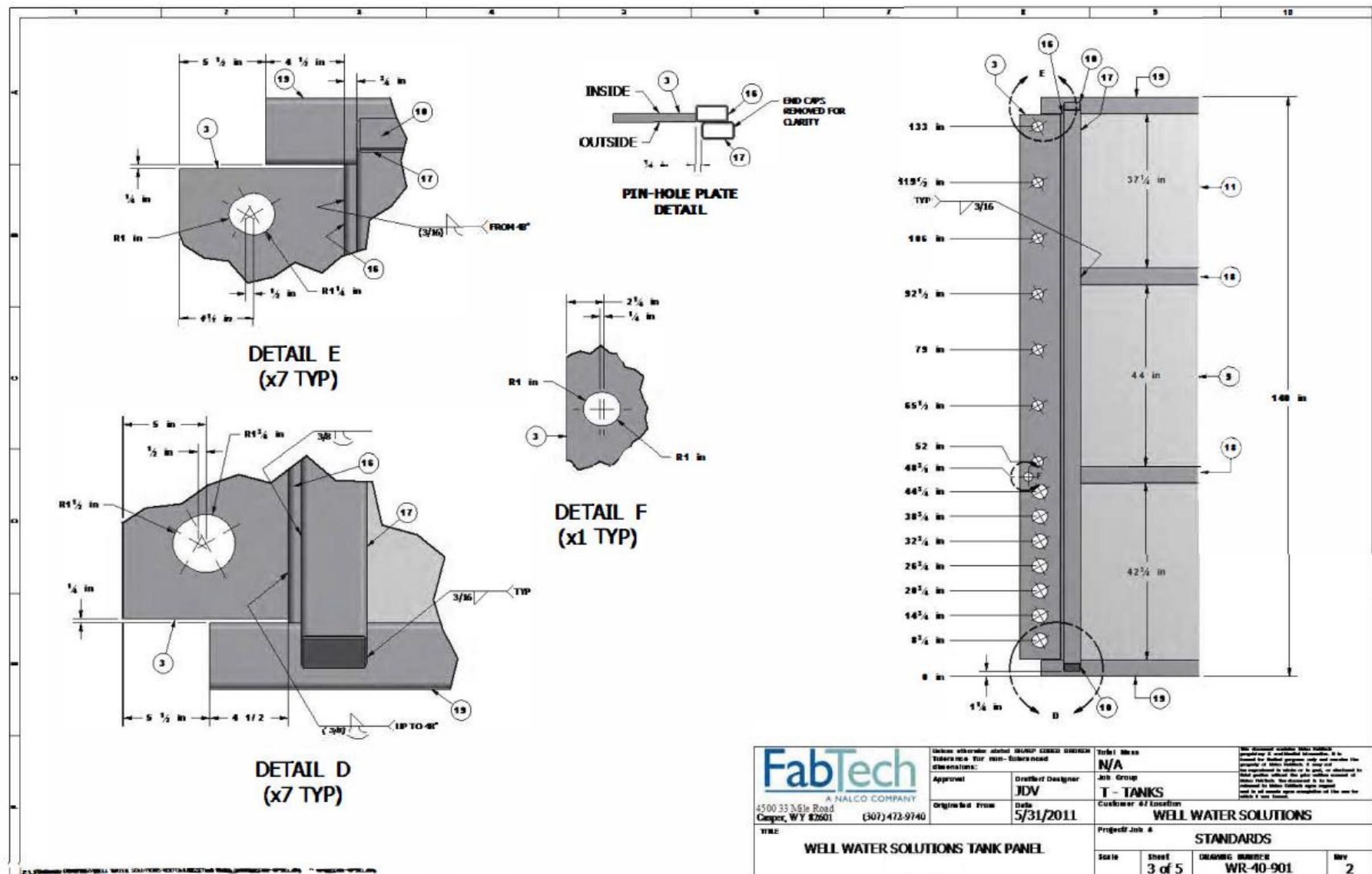
1 AUTOMATED LEAK DETECTION SYSTEM



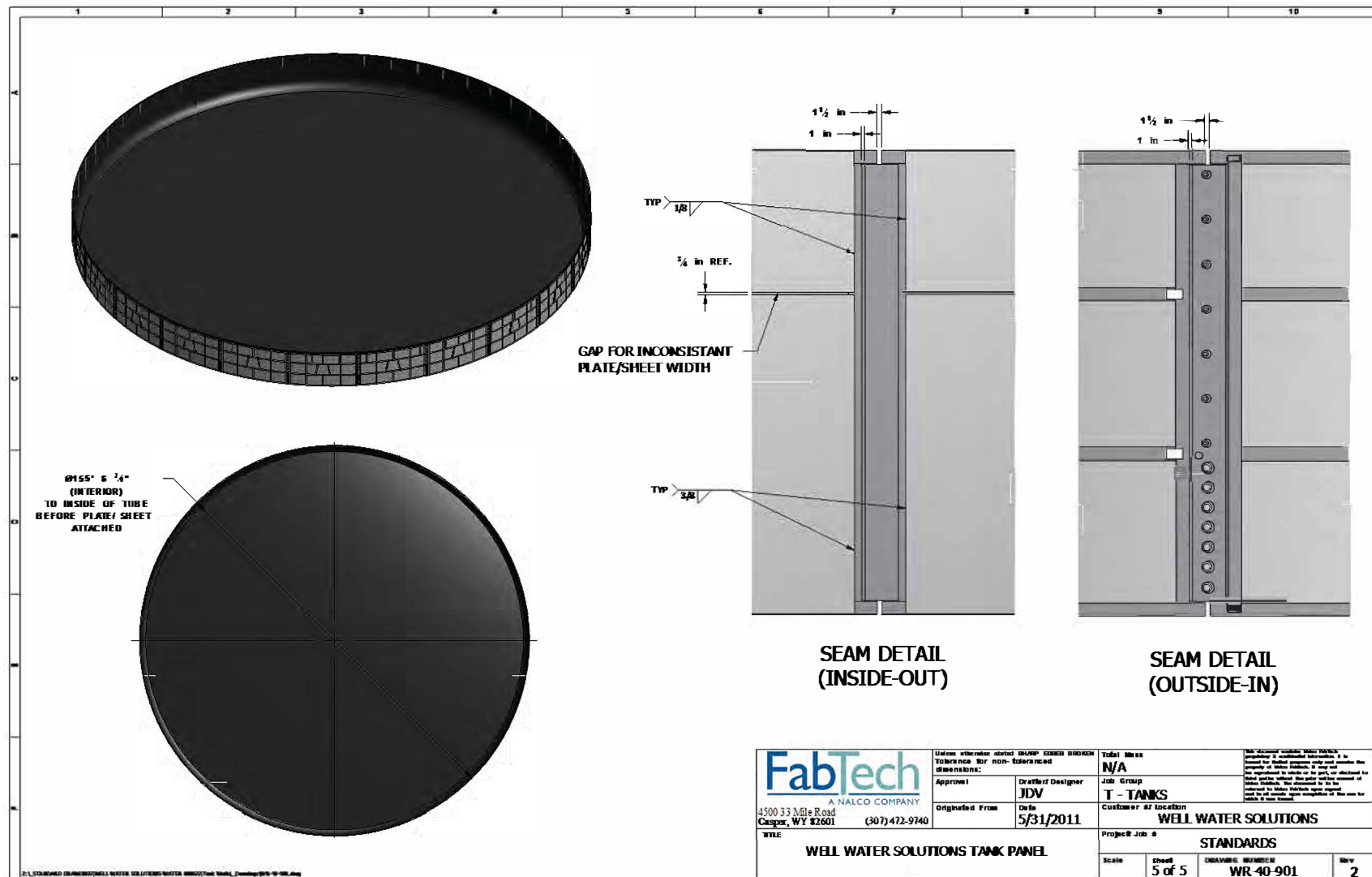
TITLE						
Double-Lined Frac Tank System						
CUSTOMER						
PROJECT/JOB						
WWS Double-Lined Tank System						
APPROVAL						
DRAFTER		DATE		SIZE	DWG NO	REV
SES		10/28/2015				
				C	LDD15-WWS-02	3
THIS DOCUMENT IS THE PROPERTY OF WWS AND MAY NOT BE REPRODUCED OR DISTRIBUTED TO THIRD PARTIES WITHOUT THE PRIOR CONSENT OF WWS.				SHEET 2 OF 2		













TANK SIZE CHART

TANK SIZE BBLs	PANEL COUNT	INSIDE DIAMETER (FEET)	VOLUME BBLs	BBLs/INCH	SECONDARY CONTAINMENT (ADD 2 PANELS)	SECONDARY CONTAINMENT DIAMETER	TOTAL FEET OF CONTAINMENT
6,000	9	60' 2"	6,090	43.5	11	75'	234'
10,000	12	81' 2"	10,753	76.8	14	95'	298'
13,000	13	87' 10-5/8"	12,609	90.1	15	101'	318'
17,000	15	101.4285	16,800	120	17	115'	361'
20,000	16	108' 2"	19,115	136.53	18	122'	384'
22,000	17	114' 11-7/16"	21,564	154.03	19	135'	426'
27,000	19	128' 6-1/4"	26,954	192.53	21	142'	446"
30,000	20	135' 3-3/8"	29,867	213.35	22	149'	468'
33,000	21	142' 0-9/16"	32,928	235.2	23	156'	489'
36,000	22	148' 9-11/16"	36,139	258.14	24	163'	510'
40,000	23	155' 6-7/8"	39,499	282.14	25	170'	532'
43,000	24	162' 4-1/16"	43,008	307.2	26	176'	553'
47,000	25	169' 1-3/16"	46,667	333.34	27	183'	574'
50,000	26	175' 10-5/16"	50,475	360.54	28	190'	595'
55,000	27	182' 7-9/16"	54,433	388.8	29	196'	617'
60,000	28	189' 4-11/16"	58,539	418.14	30	203'	638'
62,500	29	196' 1/16"	62,500	446.43	31	210'	658'
67,000	30	202' 10 6/16"	66,885	477.75	32	216'	678'
72,000	31	209' 7-7/16"	71,705	512.18	33	223'	701'
77,000	32	216' 4-9/16"	76,405	545.75	34	230'	722'
81,000	33	223' 1-11/16"	81,254	580.39	35	237'	744'

EXHIBIT H. VARIANCE REQUESTS

H

**ENDURING RESOURCES IV LLC**

6300 S Syracuse Way Centennial, CO 80111
Field Office: 505.636.9720 | Main Office: 303.573.1222

Enduring Resources IV, LLC Nagezi Unit M25 Staging and G-Tank Area
Recycling Containment and Recycling Facility Variance Request for
19.15.34 NMAC

New Mexico Oil Conservation Division
Attn: Victoria Venegas

Enduring Resources is requesting variances to the below listed items as outlined in 19.15.34 NMAC. This Recycling Containment/Facility will consist of self-contained free-standing structures instead of a lined earthen pit. The variances requested below will provide equal or better protection of fresh water, public health, and the environment.

Variance Requests:

Inside/Outside Levee Slopes: Enduring Resources requests a variance to NMAC 19.15.34.12 (A)(2) which applies to a lined earthen pit. The containment is an AST not an in-ground pond; therefore, will not have inside/outside levee slopes. The AST is a self-contained free-standing structure that will provide equal or better protection than the requirements listed in 19.15.34.12 (A)(2) NMAC.

Liner Anchoring: Enduring Resources requests a variance to NMAC 19.15.34.12 (A)(3) which applies to a lined earthen pit. This statute is not applicable to a circular steel AST with liners clamped to the top of the steel containment panels. We believe this will provide equal or better protection than the requirements listed in 19.15.34.12 (A)(3) NMAC.

Primary Liner: Enduring Resources requests a variance to NMAC 19.15.34.12 (A)(4) which applies to the thickness of the primary liner. Enduring Resources proposes the use of a 40-mil LLDPE primary liner and 30-mil LLPDE secondary liner provided by Water Well Solutions and Rentals, Inc. The proposed variance will provide equal or better protection of fresh water, public health and the environment, as the proposed liner meets all other the requirements of NMAC 19.15.34.12 (A)(4) and meets or exceeds the EPA SW-846 method 9090A or subsequent relevant publication.

Fencing: Enduring Resources requests a variance to NMAC 19.15.34.12 (D)(1) and (2) which applies to fencing or enclosing the containment. With the recycling containment being an AST with 12-foot wall height, entrance to containment would have to be intentional. There is no risk of accidental entrance into containment by wildlife or the public. The site will be maintained to prevent harm to wildlife and the public. The freestanding above grade AST will provide equal or better protection to public health and the environment, as the fencing requirements of NMAC 19.15.34.12 (D)(1) and (2).

Thank you,

Dave Brown
Regulatory Manager
Enduring Resources, LLC.
303.887.3695 – Office
505.636.9731 – Cell

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Tuesday, September 10, 2024 11:23 AM
To: Heather Huntington
Subject: 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585]
Attachments: C-147 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] 09.10.2024.pdf

3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585]

Good morning Ms. Huntington.

NMOCD has reviewed the recycling containment permit application and related documents, submitted by [371838] DJR OPERATING, LLC on September 05, 2024, Application ID 381077, for 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] in M-25-24N-09W, San Juan County, New Mexico. [371838] DJR OPERATING, LLC requested variances from 19.15.34 NMAC for 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585].

The following variances have been approved:

- The variance to 19.15.34.12.A.(2) NMAC for the no side-slope requirement for the AST containment with vertical walls is approved.
- The variance to 19.15.34.12.A.(3) NMAC for the liners to be anchored to the top of the AST steel walls and no anchor trenches is approved.
- The variance to 19.15.34.12.A.(4) NMAC for the installation on the AST containment of a 40-mil non-reinforced LLDPE primary liner is approved. [371838] DJR OPERATING, LLC proposes the use of a 40-mil LLDP E primary liner and 30-mil LLPDE secondary liner provided by Water Well Solutions and Rentals, Inc.

The form C-147 and related documents for 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] is approved with the following conditions of approval:

- The purpose of this permit is for oil and gas activities regulated under the NMAC 19.15.34.3 STATUTORY AUTHORITY: 19.15.34 NMAC is adopted pursuant to the Oil and Gas Act, Paragraph (15) of Section 70-2-12(B) NMSA 1978, which authorizes the division to regulate the disposition of water produced or used in connection with the drilling for or producing of oil and gas or both and Paragraph (21) of Section 70-2-12(B) NMSA 1978 which authorizes the regulation of the disposition of nondomestic wastes from the exploration, development, production or storage of crude oil or natural gas.
- 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] is approved for five years of operation from the date of permit application of September 05, 2024.
- 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] permit expires on September 05, 2029. If [371838] DJR OPERATING, LLC wishes to extend operations past five years, an annual permit extension request must be submitted using an OCD form C-147 through OCD Permitting by August 05, 2029.
- 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] consists of one (1) above ground tank (AST) containment of 60,000.00 BBL. The recycling facility will consist of up to thirty (30) 400 bbl vertical frac tanks with a consolidated volume of 12,000 bbl. [371838] DJR OPERATING, LLC must submit a "recycling facility" modification in the event the number of frac tanks exceeds the approved number of thirty (30) 400 bbl vertical frac tanks.

- Water reuse and recycling from 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] is limited to wells owned or operated by [371838] DJR OPERATING, LLC per 19.15.34.15(A)(2) NMAC.
- [371838] DJR OPERATING, LLC shall construct, operate, maintain, close, and reclaim 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] in compliance with NMAC 19.15.34 NMAC.
- [371838] DJR OPERATING, LLC shall notify OCD, through OCD Permitting when construction of 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] commences.
- [371838] DJR OPERATING, LLC shall notify NMOCDD through OCD Permitting when recycling operations commence and cease at 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585].
- A minimum of 3-feet freeboard must be maintained at 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] at all times during operations.
- If less than 20% of the total fluid capacity is utilized every six months, beginning from the first withdrawal, operations of the 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] is considered ceased and a notification of cessation of operations should be sent electronically to OCD Permitting. A request to extend the cessation of operation, not to exceed six months, may be submitted using a C-147 form through OCD Permitting. If after that 6-month extension period, the 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] is not utilized at a minimum of 20% fluid capacity, no additional extensions would be granted, and the operator would be directed to remove all fluids and proceed with the closure requirements.
- [371838] DJR OPERATING, LLC shall submit monthly reports of recycling and reuse of produced water, drilling fluids, and liquid oil field waste on OCD form C-148 via OCD Permitting even if there is zero activity.
- [371838] DJR OPERATING, LLC shall inspect the recycling containment and associated leak detection systems weekly while it contains fluids. The operator shall maintain a current log of such inspections and make the log available for review by the division upon request according to 19.15.34.13.A.
- [371838] DJR OPERATING, LLC shall comply with 19.15.29 NMAC Releases in the event of any release of produced water or other oil field waste at 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585].
- Per 19.15.34.14.G The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.

Please reference number 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] in all future communications.

Regards,

Victoria Venegas • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. Artesia, NM 88210

(575) 909-0269 | Victoria.Venegas@emnrd.nm.gov

<https://www.emnrd.nm.gov/oecd/>



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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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 381077

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 381077
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed and approved the recycling containment permit application and related documents, submitted by [371838] DJR OPERATING, LLC on September 05, 2024, Application ID 381077, for 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] in M-25-24N-09W, San Juan County, New Mexico. • [371838] DJR OPERATING, LLC shall construct, operate, maintain, close, and reclaim 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585] in compliance with NMAC 19.15.34 NMAC. • [371838] DJR OPERATING, LLC shall comply with 19.15.29 NMAC Releases in the event of any release of produced water or other oil field waste at 3RF-75 - NAGEEZI UNIT M25 STAGING AND G-TANK AREA FACILITY [fVV2425356585].	9/10/2024