

# **C-147 REGISTRATION PACKAGE**

## **Ponderosa 2310 P01 Staging Area** **Recycling Containment and Recycling Facility**

November 2024



## **ENDURING RESOURCES IV, LLC**

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**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): Ponderosa Unit 2310 P01 Staging Area  
OCD Permit Number: 3RF-80 (For new facilities the permit number will be assigned by the district office)  
U/L or Qtr/Qtr O Section 01 Township 23N Range 10W County: San Juan  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.  
 **Recycling Facility:**  
Location of recycling facility (if applicable): Latitude 36.249676 Longitude -107.845700 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 36.249676 Longitude -107.845700 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: Dia 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 \_\_\_\_\_ **Please see Variance Request Attached** \_\_\_\_\_

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.*

<b>General siting</b>	
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: 11/27/2024  
 e-mail address: hhuntington@enduringresources.com Telephone: 505-636-9751

11.

OCD Representative Signature: Victoria Venegas Approval Date: 12/10/2024  
 Title: Environmental Specialist OCD Permit Number: 3RF-80  
 OCD Conditions \_\_\_\_\_  
 Additional OCD Conditions on Attachment \_\_\_\_\_

# TABLE OF CONTENTS

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1. INTRODUCTION .....	1
2. SITING CRITERIA.....	2
3. DESIGN AND CONSTRUCTION SPECIFICATIONS .....	4
4. MAINTENANCE AND OPERATING PLAN.....	5
5. CLOSURE PLAN.....	6
EXHIBIT A. PLAT.....	A
EXHIBIT B. RECYCLING FACILITY AND RECYCLING CONTAINMENT SITE DIAGRAM.....	B
EXHIBIT C. SURFACE OWNER NOTIFICATION .....	C
EXHIBIT D. GROUND WATER REPORT .....	D
EXHIBIT E. SITING CRITERIA MAPS .....	E
EXHIBIT F. AQUATIC RESOURCES DELINEATION TECHNICAL MEMORANDUM.....	F
EXHIBIT G. MANUFACTURE SPECIFICATION .....	G
EXHIBIT H. VARIANCE REQUESTS .....	H

## 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	Ponderosa Unit 2310 P01 Staging Area Recycling Containment and Recycling Facility
Project Type	Recycling Facility & Recycling Containment
Legal Location	Southwest ¼ of the Southeast ¼ of Section 01, Township 23N, Range 10W
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 Ponderosa Unit 2310 P01 Staging Area (Ponderosa P01 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 Ponderosa P01 Staging Area is located at 36.249676 ° N, -107.845700 ° W, within Section 1, Township 23N, Range 10W, 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. See Exhibit C of the approved Sundry Notice of Intent for this site and associated infrastructure. 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 SJ-01714 in the Southwest ¼ of the Southeast ¼ of Section 36, Township 24N, Range 10W. This water well was drilled to a total depth of 442 feet with depth to ground water measured at 284 feet. This water well is located approximately 4,880 feet north of the Ponderosa P01 Staging Area. With the proposed containment being an above ground tank, water depth of 284 feet, and AST pad elevation 60 plus vertical feet (downgradient) from this water well, 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.

Average, Minimum, and Maximum depth to ground water within T23N R09W = 3516', 173', 6830'

Average, Minimum, and Maximum depth to ground water within T23N R10W = None Reported

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

Average, Minimum, and Maximum depth to ground water within T24N R10W = 439', 284', 595'

### 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 AST as shown in Exhibit E Map 2. Additionally, there are no significant drainages within 200' of the proposed AST.

DJR contracted Adkins Environmental Consulting (ACI) in October of 2024 to assess all surrounding drainages per 19.15.34.11 A.(2) NMAC. In the report provided to DJR titled, *Enduring Resources Ponderosa P01-2310 (105H, 107H, and 135H) Project in San Juan, County, New Mexico, Aquatic Resources Delineation Technical Memorandum*, ACI 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 ACI's understanding of the USACE Albuquerque District's current policies regarding jurisdictional determinations, it is ACI'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 off 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.*

### 2.3. Distance to Structures 19.15.34.11 A.(3)

The recycling 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 staging area. 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 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 4,880 feet North. Nearest spring/seep according to the National Hydrologic Dataset (NHD) is 5,596 feet away.

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

The recycling Containment 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 31.5 miles North-Northwest.

**2.6. Distance to Wetland 19.15.34.11 A.(6)**

The recycling 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.

**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 is one open pit surface aggregate mine in Township 23N, Range 10W, San Juan County, New Mexico. There is no Lat/Long location data for this pit. See Exhibit E Map 1 showing mines regardless of status near the project area. The nearest EMNRD recorded permit with GIS data (being a withdrawn permit) is a Humate pit approximately 19.5 miles 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.
- The 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 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 6,555 feet East-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 Ponderosa P01 Staging Area. The facility and recycling containment has been designed to prevent release 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 permitted Ponderosa 2310 P01 Staging Area location. 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 protuberance that otherwise may compromise the liner 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 point 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. The 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

## C-147 Registration Package

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 into 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 systems 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 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 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

## C-147 Registration Package

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 Ponderosa P01 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

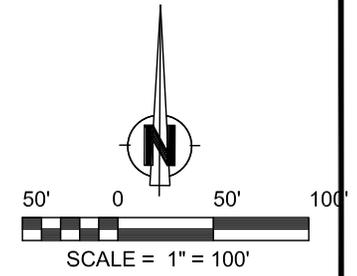
The location will be reclaimed upon completion of use in accordance with the approved reclamation plan attached to the Ponderosa 2310 P01 well pad in which this staging area was associated and permitted with. This reclamation plan was developed with, and approved by, the surface managing agency.

## EXHIBIT A. PLAT

A

**CENTER OF G-TANK AREA**  
LATITUDE: 36.249676° N  
LONGITUDE: 107.845700° W  
DATUM: NAD83

**DJR OPERATING, LLC**  
**ESCRITO P01 2310 FEDERAL COM #113H**  
**G-TANK AREA**  
LOCATED IN THE SW/SE OF SECTION 1,  
T23N, R10W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO  
PU P01-2310



**NOTES:**

- 1.) BASIS OF BEARING: BETWEEN FOUND MONUMENTS AT THE SOUTHEAST CORNER AND THE SOUTHWEST CORNER OF SECTION 1, TOWNSHIP 23 NORTH, RANGE 10 WEST, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO. LINE BEARS: S 89°49'55" W A DISTANCE OF 5249.99 FEET AS MEASURED BY G.P.S. AND BASED ON THE N.M.S.P. COORDINATE SYSTEM (WEST ZONE).
- 2.) LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON AZTEC CORS L1 PHASE CENTER. DISTANCES SHOWN ARE GROUND DISTANCES USING A TRAVERSE MERCATOR PROJECTION FROM A WGS84 ELLIPSOID, CONVERTED TO NAD83. NAVD88 ELEVATIONS AS PREDICTED BY GEOID09.
- 3.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LWEST 48 HOURS PRIOR TO CONSTRUCTION.
- 4.) T-POSTS HAVE BEEN SET TO DEFINE THE EDGE OF DISTURBANCE LIMITS WHICH ARE 50' OFFSETS FROM THE EDGE OF THE STAKED WELL PAD.



~ SURFACE OWNERSHIP ~
BUREAU OF LAND MANAGEMENT

**TOTAL PERMITTED AREA**  
**350' x 350' = 2.812 ACRES**  
**SCALE: 1" = 100'**  
**DATE: 03/16/23**  
**DRAWN BY: GRR**



**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.

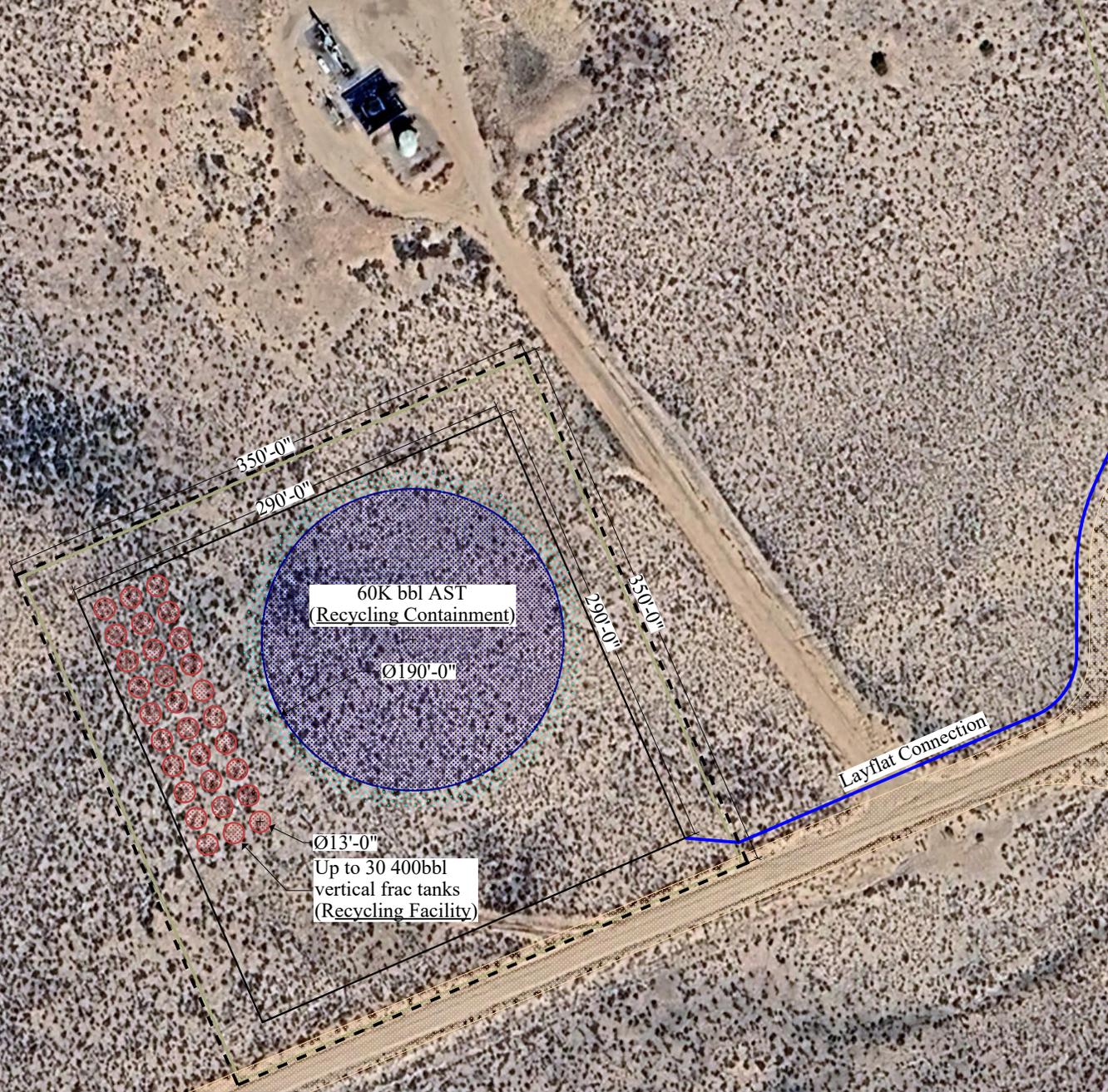
SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

**CCI**  
**CHENAULT CONSULTING INC.**  
4800 COLLEGE BLVD.  
SUITE 201  
FARMINGTON, NM 87402  
(505)-325-7707

## **EXHIBIT B. RECYCLING FACILITY AND RECYCLING CONTAINMENT SITE DIAGRAM**

B

# DJR Operating, LLC's Ponderosa Unit P01 Staging Area Diagram for Use of One 60K BBL AST Southwest 1/4 of the Southeast 1/4 of Section 1, T23N, R10W, NMPM San Juan County, New Mexico



100'-0"

1" = 100' on 8.5 x 11 Actual Size

## EXHIBIT C. SURFACE OWNER NOTIFICATION

C

U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

<b>Well Name:</b> ESCRITO P01 2310 FED COM	<b>Well Location:</b> T23N / R10W / SEC 1 / SESE / 36.250489 / -107.843168	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 106H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM42059	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3004538382	<b>Operator:</b> DJR OPERATING LLC	

**Notice of Intent**

**Sundry ID:** 2822493

**Type of Submission:** Notice of Intent

**Type of Action:** Other

**Date Sundry Submitted:** 11/14/2024

**Time Sundry Submitted:** 08:27

**Date proposed operation will begin:** 11/14/2024

**Procedure Description:** DJR Operating, LLC proposes to construct up to five 60,000-barrel AST containments on the Ponderosa 2310 P01 well pad and a single 60,000-barrel AST and necessary processing equipment on the associated staging area just west. The staging area was proposed and approved for AST water storage as part of the approved APD permit package. DJR is requesting approval to construct additional ASTs on the P01 well pad to serve drilling and completion operations for well located on the well pads listed below. Please see the attached diagram showing the proposed layout. • Ponderosa 2309 C07 well pad • Ponderosa 2309 J06 well pad • Ponderosa 2309 I06 well pad • Ponderosa 2409 F31 well pad

**Surface Disturbance**

**Is any additional surface disturbance proposed?:** No

**NOI Attachments**

**Procedure Description**

Escrito\_P01\_2310\_FED\_COM\_106H\_\_09.09.24\_20241114082638.pdf

20241106\_PDU\_P01\_Pad\_and\_Staging\_AST\_20241114082616.pdf

Well Name: ESCRITO P01 2310 FED  
COM

Well Location: T23N / R10W / SEC 1 /  
SESE / 36.250489 / -107.843168

County or Parish/State: SAN  
JUAN / NM

Well Number: 106H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM42059

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004538382

Operator: DJR OPERATING LLC

**Operator**

*I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

Operator Electronic Signature: HEATHER HUNTINGTON

Signed on: NOV 14, 2024 08:26 AM

Name: DJR OPERATING LLC

Title: Permitting Technician

Street Address: 200 ENERGY COURT

City: FARMINGTON

State: NM

Phone: (505) 636-9751

Email address: HHUNTINGTON@ENDURINGRESOURCES.COM

**Field**

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

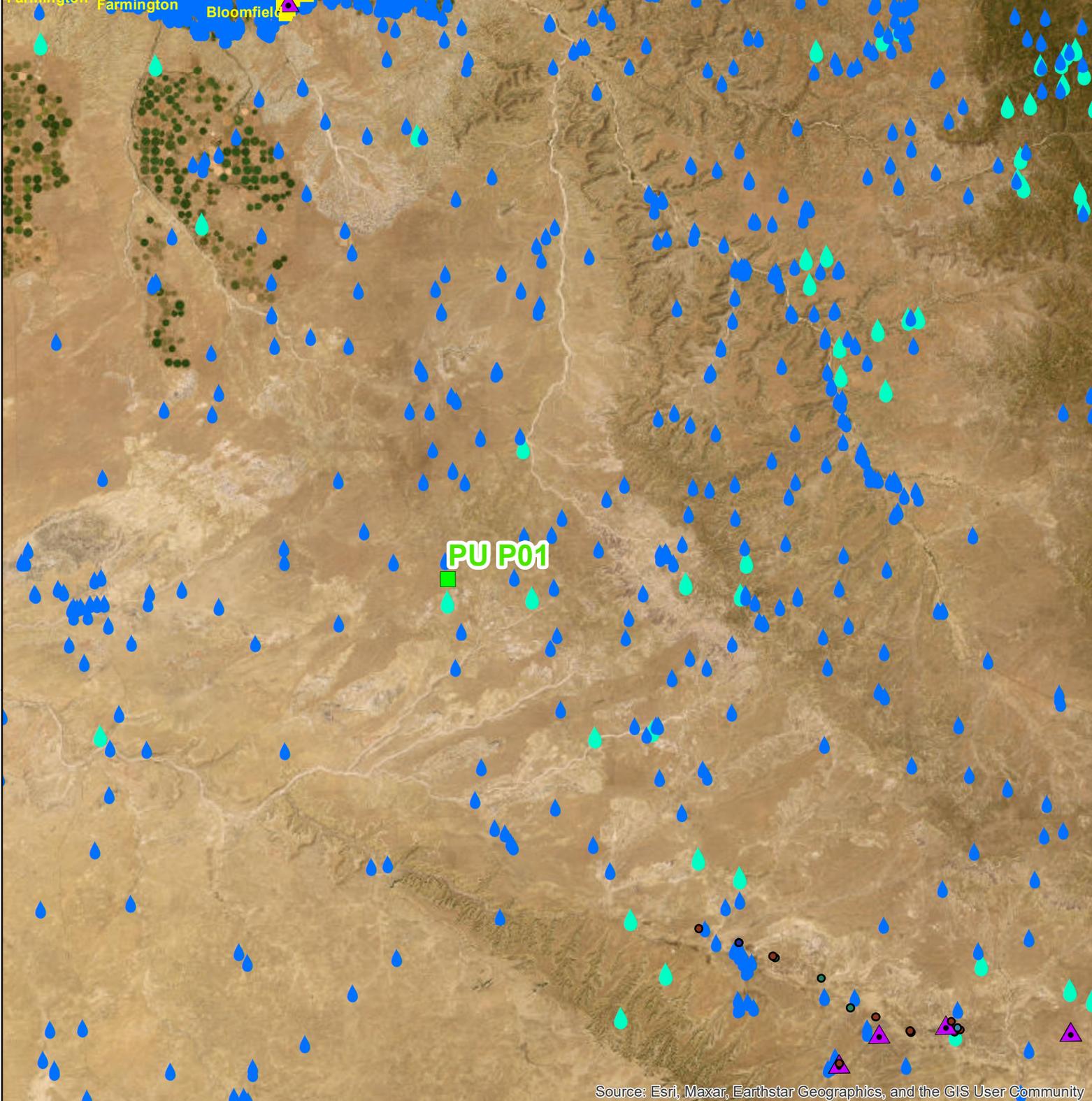
## **EXHIBIT D. GROUND WATER REPORT**

D



## EXHIBIT E. SITING CRITERIA MAPS

E



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

### PU P01 Containment Location Map1 Siting Criteria

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

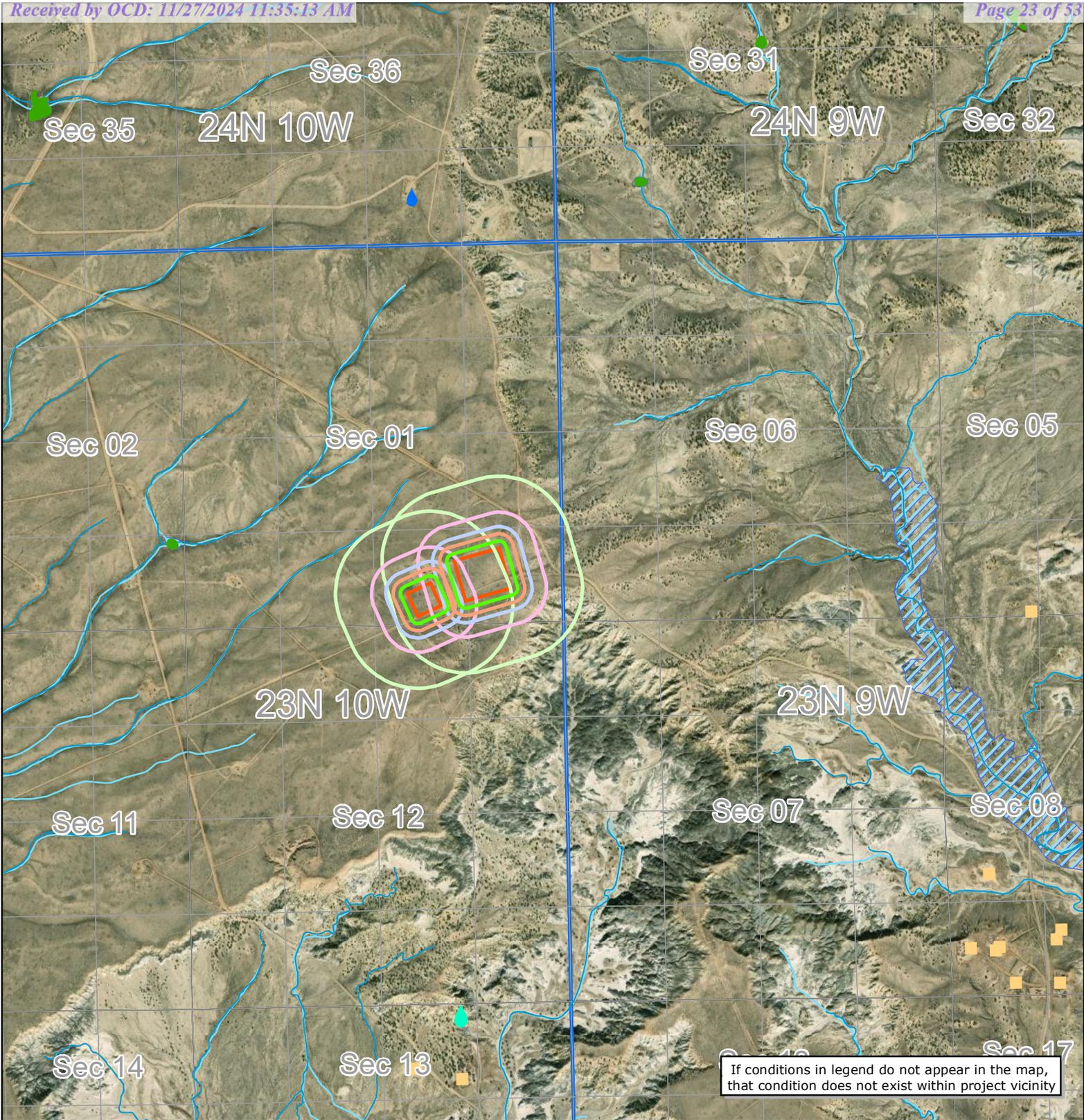


**ENDURING  
RESOURCES, LLC**



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

0 5 10 15 20 Miles



### PU P01 Containment Location Map 2 Siting Criteria

- |                    |                                   |                            |
|--------------------|-----------------------------------|----------------------------|
| OSE Water Wells    | Active Mining                     | USA_Wetlands               |
| Spring Seep        | Active Mining, Active Reclamation | Estuary                    |
| Residence          | Approved                          | Marsh, Swamp, Bog, Prairie |
| 100                | Enforcement                       | Riverine                   |
| 200                | No Permit                         | Lake, Reservoir            |
| 300                | No Response                       | NHDWaterbody               |
| 500                | Pending                           | FEMA High Risk Flood Zone  |
| 1000               | Released                          |                            |
| PU P01             | Temporary Suspension              |                            |
| USGS Water Courses | Under Development                 |                            |



**ENDURING  
RESOURCES, LLC**



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

Released to Imaging: 12/10/2024 11:21:26 AM

NAD 1983 2011 StatePlane New Mexico West FIPS 3003 Ft US

Author: drogers

Date: 10/24/2024

**EXHIBIT F. AQUATIC RESOURCES DELINEATION TECHNICAL  
MEMORANDUM**

F

## Waters of the U.S. Delineation Report

**To:** Casey Haga, Enduring Resources IV, LLC  
**From:** Adkins Consulting, Inc  
**Date:** October 17, 2024  
**Re:** **Enduring's Ponderosa P01-2310 (105H, 107H, and 135H) Project in San Juan County, New Mexico, Aquatic Resource Delineation Technical Memorandum**

---

### 1. INTRODUCTION

Adkins Consulting, Inc (ACI) was retained by Enduring Resources IV, LLC (Enduring) to complete a wetland delineation and associated reporting for a recycling containment facility associated with the Ponderosa P01-2310 Project (project) in San Juan County, New Mexico. The project area comprises 11.467 acres on land managed by the Bureau of Land Management Farmington Field Office. The project components consist of one well pad and one G-tank and staging area (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 water resources. The approximate center point of the survey area is at latitude 36.250589°, longitude -107.842709°.

The goal of conducting this 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 jurisdictional WOTUS by the U.S. Army Corps of Engineers (USACE).

ACI prepared this report which summarizes aquatic resources desktop and field data, to support Enduring's application for a permit or registration specific to 19.15.34 New Mexico Administrative Code (NMAC) via Form C-147. This report serves as a record of existing 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 section 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 (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).

*Enduring's Ponderosa P01-2301 Project in San Juan County, New Mexico, Wetland Delineation Report*

---

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).

ACI evaluated the presence or absence and characteristics of field-delineated surface water resources to develop an opinion of potential WOTUS jurisdiction based on the 2023 Amended Rule and current guidance from 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 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 19.15.34.11 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 publicly available 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 Desktop Aquatic Resources 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 include the following:

- 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)
- USGS Watershed Boundary Dataset (USGS 2021)
- USACE Antecedent Precipitation Tool (Version 2.0.0) (USACE 2023) – used 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), if present. 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, ACI 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) if streams with flowing water were present. 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 waterbody boundaries during the field survey if present. Geographic information system (GIS) software was used to analyze recorded features, calculate areas, and generate the survey area maps.

## **4. RESULTS**

### **4.1 Existing Desktop Aquatic Resources Data Review Results**

The project area is entirely within the De-na-zin Wash watershed (Hydrologic Unit Code 1408010607) (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 NHD-mapped flowlines or NWI-mapped riverine wetlands overlap the survey area (USFWS 2024; USGS 2016) (see Figure A-1 in Appendix A).

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 1).

Enduring's Ponderosa P01-2301 Project in San Juan County, New Mexico, Wetland Delineation Report

**Table 1. 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
Doak-Sheppard-Shiprock association, rolling	DS	No	30.5	88.4%
Fruitland-Persayo-Sheppard complex, hilly	FX	No	4.0	11.6%
Total	–	–	34.6	100.0

Source: NRCS (2024a, 2024b)

Based on the results of the Antecedent Precipitation Tool (APT) (Product of 14), the project area experienced normal wetness conditions (Table 2) (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 ACI’s August 2024 field survey reflect those that would be expected in a typical year for this area.

**Table 2. 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**
October 8, 2024	0.68	1.58	0.31	Dry	1	3	3
September 8, 2024	0.29	1.06	1.56	Wet	3	2	6
August 8, 2024	0.39	1.15	0.46	Normal	2	1	2
<b>Result</b>							<b>11 (Normal)</b>

\* 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 October 8, 2024. At the time of the survey, the existing access road was complete and other project components were not yet under construction.

### 4.2.1 Wetlands

ACI did not observe or delineate any wetland features during the October 2024 survey of the project area based on the lack of features exhibiting the three parameters of a wetland as described in Section 2 of this document. Erosional features or other described washes did not exhibit hydrophytic vegetation, hydric soils, and evidence of water presence (hydrology). NWI or NHD-mapped riverine features did not extend into the survey area, and none were observed in the survey area. Erosional 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 OHWM were identified within the survey area. Two unmapped erosional features were observed and documented in the field as vegetated isolated erosional features (EF01 and EF02). Photographs of these features and upland areas are provided in

Enduring's Ponderosa P01-2301 Project in San Juan County, New Mexico, Wetland Delineation Report

Appendix B, and a map of their locations within the survey area are in Appendix A.

**Table 3. Erosional Features in the Survey Area**

Feature ID	Aquatic Resource Type	Coincides with mapped NHD and/or NWI Feature (Yes or No)	Notes
EF01	Erosional feature (small headcut and discontinuous channel)	Yes	Minimal channelizing. Some sediment transport but no reliable, strong, or consistent OHWM indicators
EF02	Erosional feature (small headcut and discontinuous channel)	No	No reliable, strong, or consistent OHWM indicators. Flows into EF01.

## 5. SUMMARY

Based on the regulatory considerations provided in Section 2, evaluation of the survey area and observed aquatic resources, and ACI's understanding of the USACE Albuquerque District's current policies regarding jurisdictional determinations, it is ACI'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 intersects a FEMA 100-year flood zone.

The results and summary provided are based on ACI'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.

**LITERATURE CITED**

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- . 2023. Antecedent Precipitation Tool, Version 2.0.0. Available at: <https://www.usace.army.mil/Media/Announcements/Article/3450425/6-july-2023-usace-announces-the-availability-of-the-antecedent-precipitation-to/>. Accessed October 2024.

Enduring's Ponderosa P01-2301 Project in San Juan County, New Mexico, Wetland Delineation Report

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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 October 2024.

U.S. Fish and Wildlife Service (USFWS). 2024. National Wetlands Inventory. U.S. Fish and Wildlife Service Ecological Services. Available at: <https://www.fws.gov/program/national-wetlands-inventory>. Accessed October 2024.

U.S. Geological Survey (USGS). 2016. National Hydrography Dataset. Available at: <http://nhd.usgs.gov/index.html>. Accessed October 2024.

———. 2021. Watershed Boundary Dataset. Available at: <https://www.usgs.gov/national-hydrography/watershed-boundary-dataset>. Accessed October 2024.

**APPENDIX A**  
**Aquatic Resources Delineation Figures**

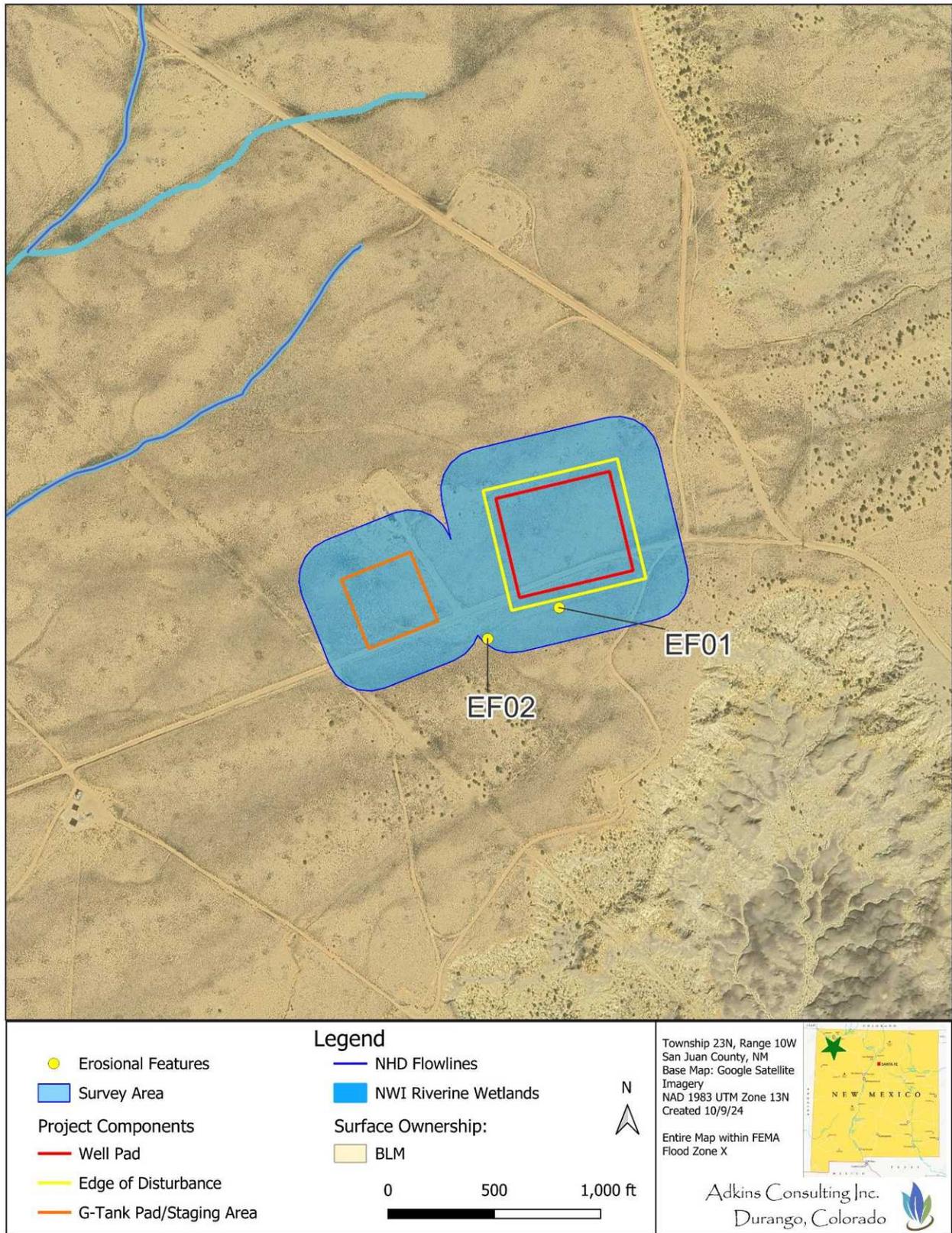


Figure A-1. Overview of desktop aquatic resources data and field-assessed aquatic resources data within the survey area.

## **APPENDIX B**

### **Photographs**



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



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



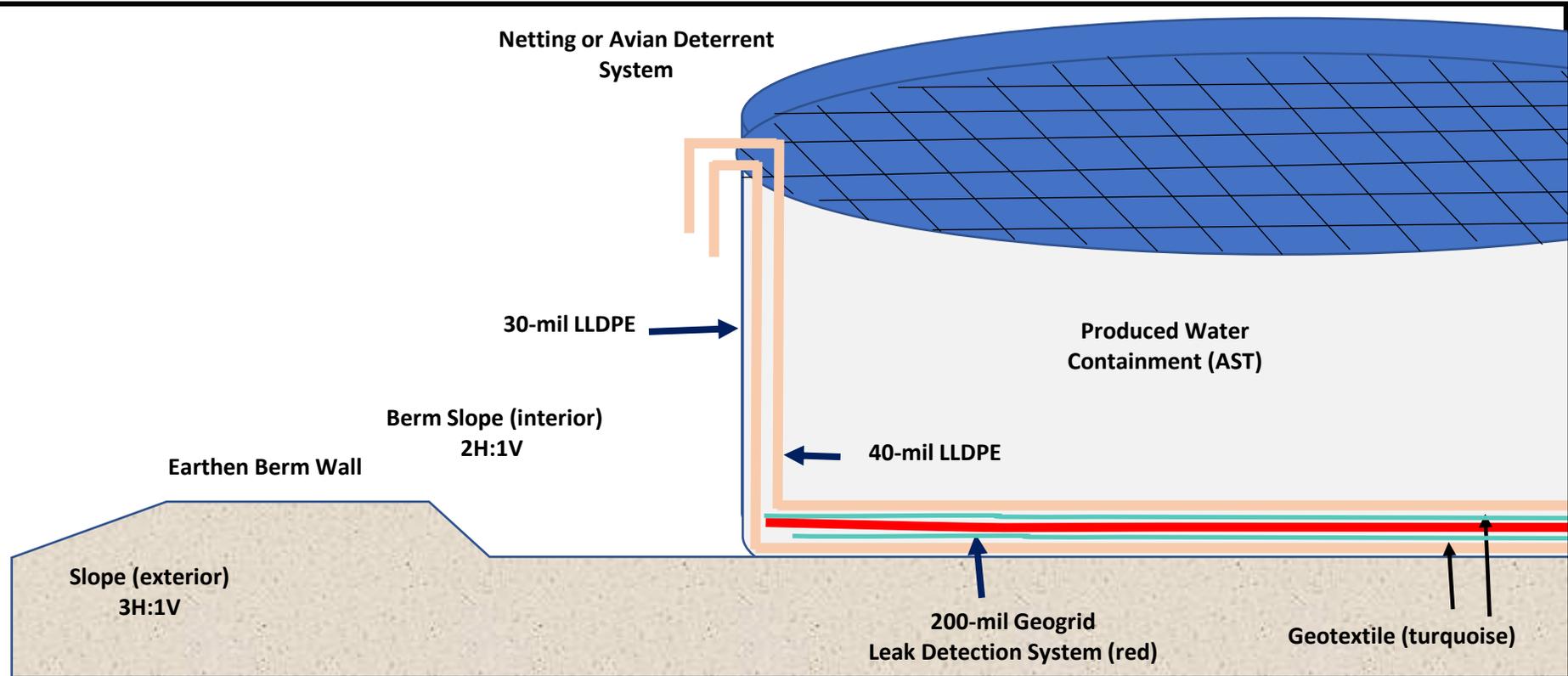
**Photograph B-3. Overview of EF02, a small erosional feature that does not contain an OHWM, facing upstream (southeast).**



**Photograph B-4. Overview of typical upland zone in project area, where sheet flow is present (north).**

## **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)

<b>R.T. Hicks Consultants</b> Albuquerque, NM	<b>Design Sketch</b>	<b>Plate 1</b>
	<b>Well Water Solutions</b>	<b>May-21</b>

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

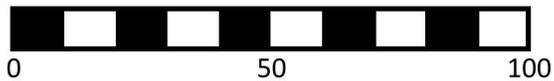
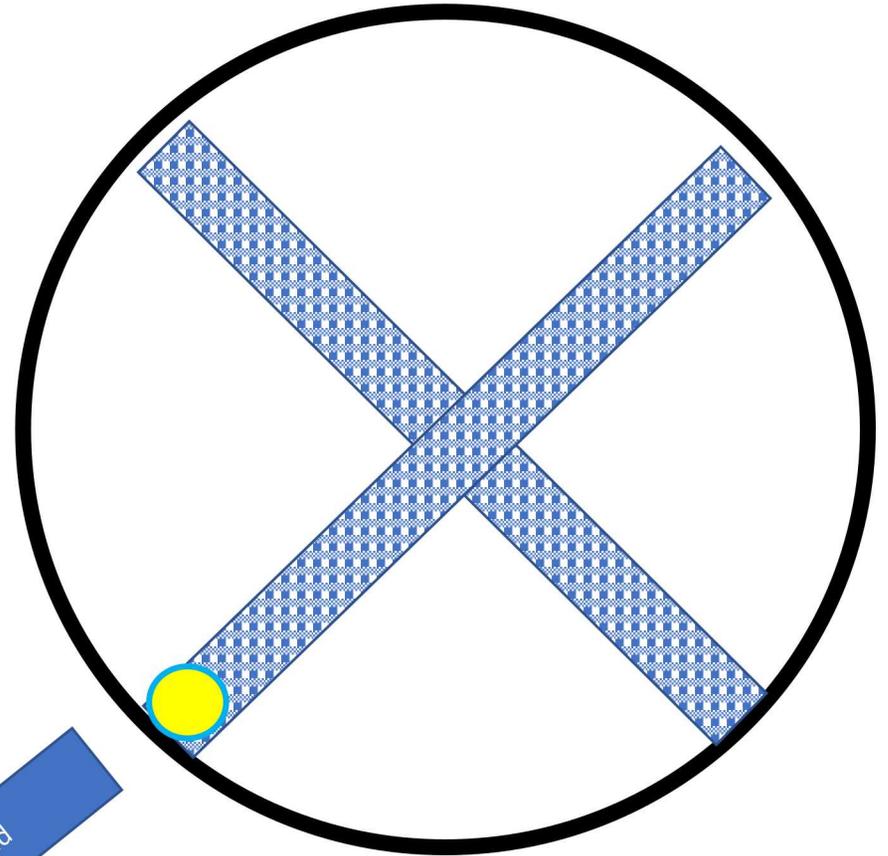
200 mil geogrid placed

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

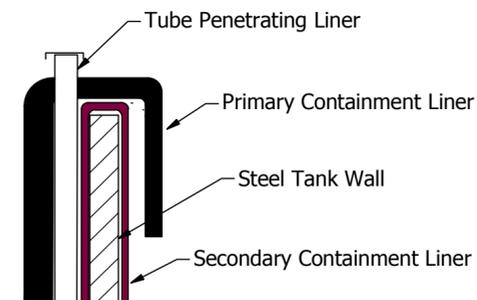
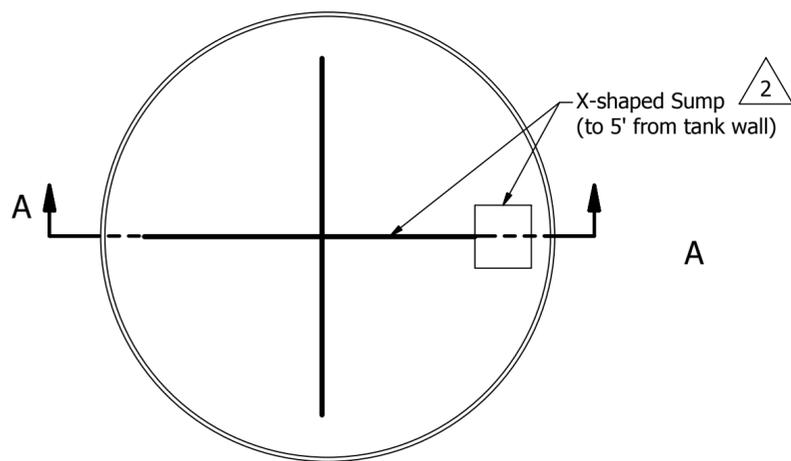
over the 30-mil LLDPE liner inside the steel AST ring  
under the 40-mil primary liner inside the AST

Sump at lowest point of the AST set up

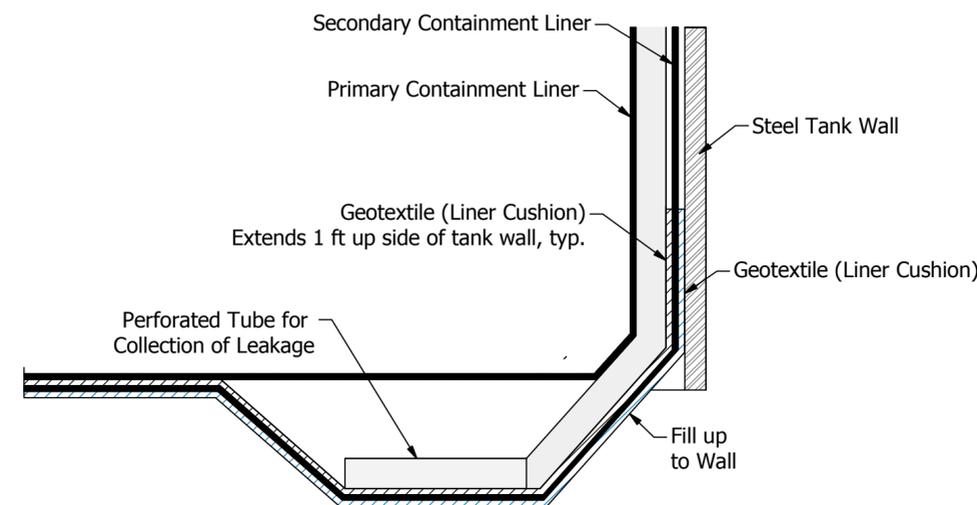
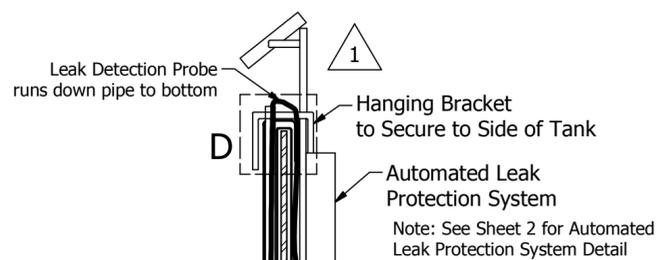


<b>R.T. Hicks Consultants</b> <b>Albuquerque, NM</b>	<b>Layout of Geogrid Drainage Mat</b>	<b>Plate 1</b>
	<b>WWS - New Mexico Produced Water Set Up</b>	<b>June 2021</b>

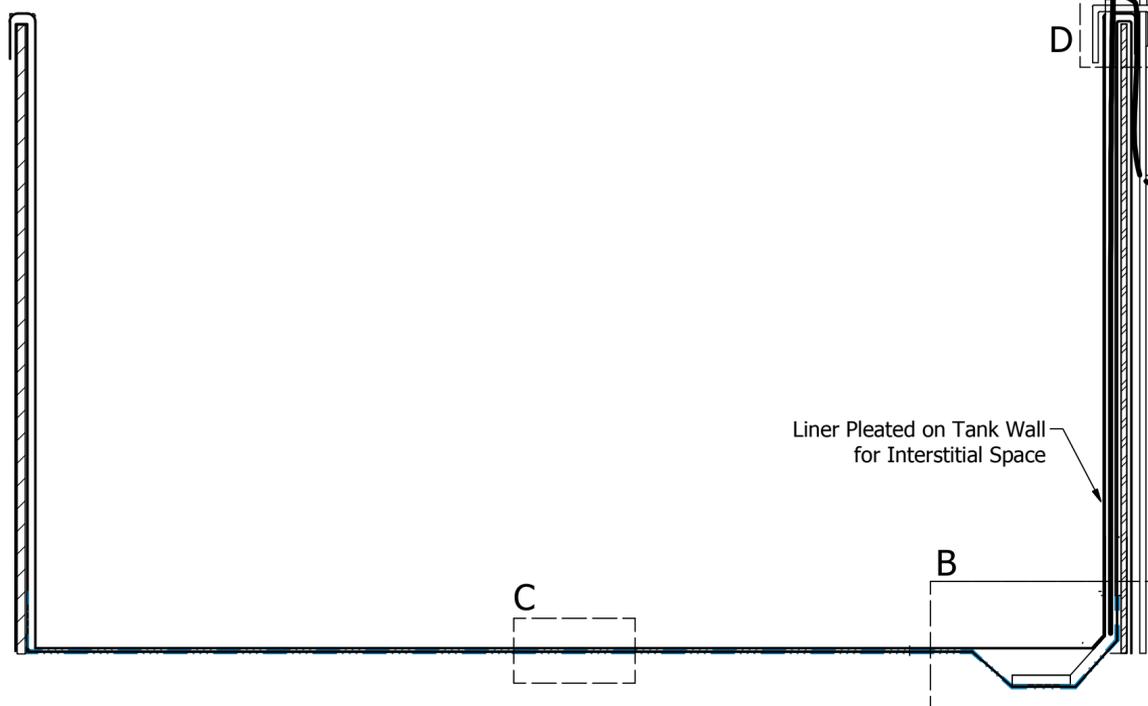
# WWS DOUBLE-LINED FRAC WATER TANK SYSTEM



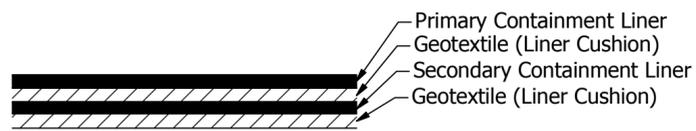
**SECTION D  
TUBE DETAIL**  
(Automated Leak Detection System Removed for Clarity)



**SECTION B  
SUMP DETAIL**



**VIEW A-A  
TANK DETAIL**



**SECTION C  
LINER DETAIL**

**LUCID**  
DRAFTING & DESIGN LLC  
sarah@luciddrafting.com 307.752.7388

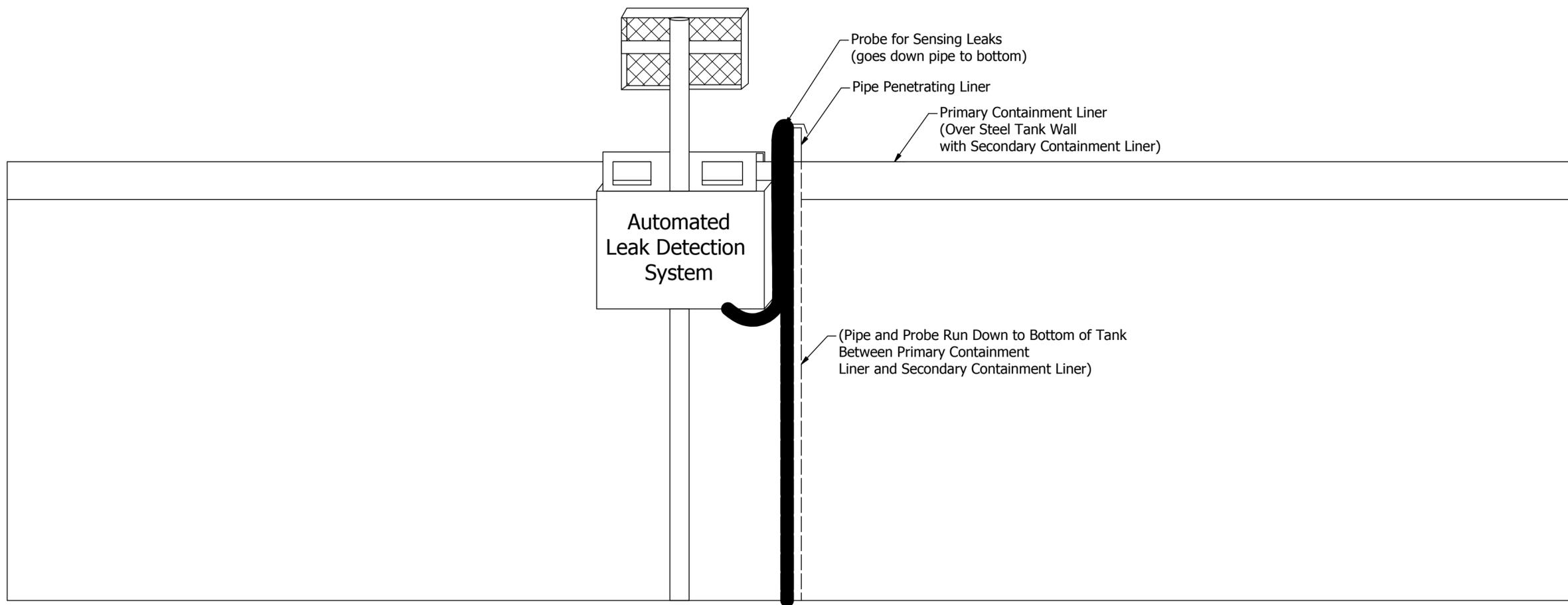
REVISION HISTORY				
REV	DESCRIPTION	DATE	BY	
0	INITIAL DWG	10/29/2015	SES	
1	ADDED LEAK DETECTION SYSTEM	11/6/2015	SES	
2	REVISED SUMP	11/6/2015	SES	
3	ADDED GEOTEXTILE UNDER AND BETWEEN LINERS	11/24/15	SES	

TITLE Double-Lined Frac Tank System	
CUSTOMER	
PROJECT/JOB WWS Double-Lined Tank System	
APPROVAL	
DRAFTER SES	DATE 10/28/2015
THIS DOCUMENT IS THE PROPERTY OF WWS AND MAY NOT BE REPRODUCED OR DISTRIBUTED TO THIRD PARTIES WITHOUT THE PRIOR CONSENT OF WWS.	

**WELL WATER SOLUTIONS**  
AND RENTALS, INC.

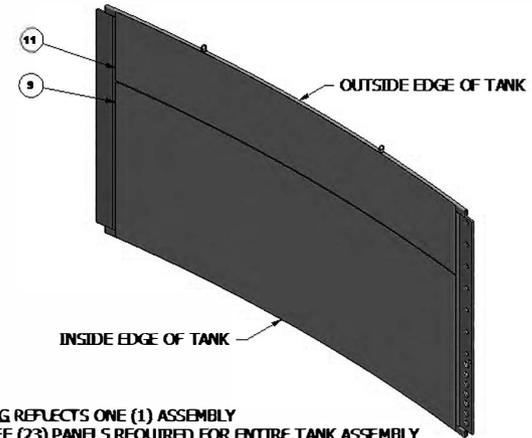
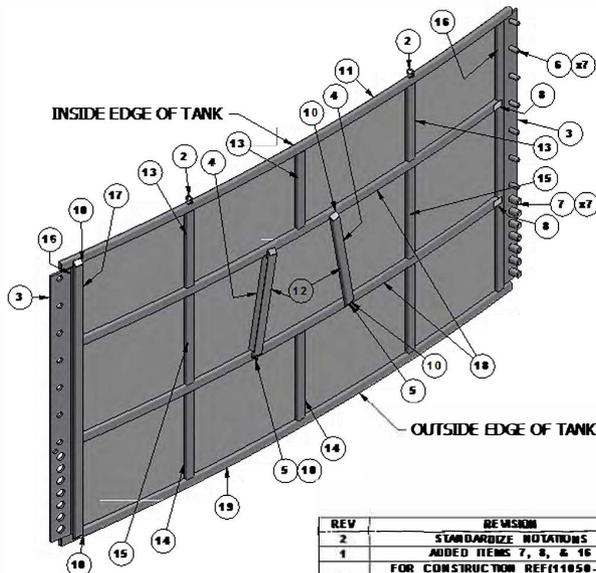
SIZE C	DWG NO LDD15-WWS-02	REV 3
SHEET 1 OF 2		

### 1 AUTOMATED LEAK DETECTION SYSTEM



TITLE				
Double-Lined Frac Tank System				
CUSTOMER				
PROJECT/JOB WWS Double-Lined Tank System				
APPROVAL		SIZE	DWG NO	REV
DRAFTER SES	DATE 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		

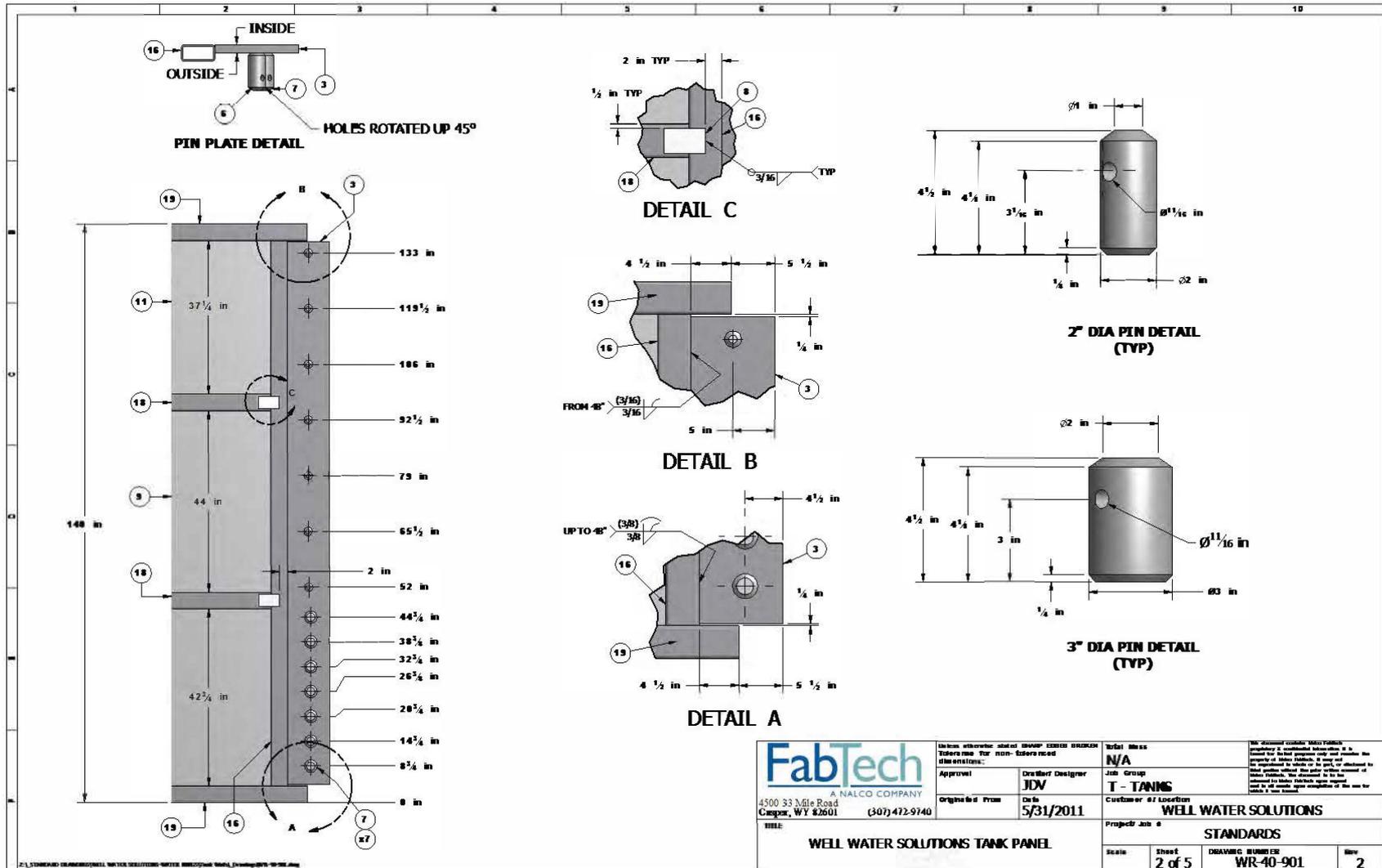
CK		ITEM	QTY	DESCRIPTION	WIDTH	LENGTH	MATERIAL	LENGTH (in)	WEIGHT
1	14			BAR, ROUND, 5/8" (LOCK PIN)		6 1/2 in	A36	6.50	
2	2			D-RING, 1/2" B38, WORKING LOAD 4000 lbs			A29/A29M - S1 1045(C-1045), MODIFIED TO WELD DOWN		2
3	2			FBAR, 1"	10 in	124 1/2 in	A36	131.50	373
4	2			FBAR, 10GA	3 in	43 1/8 in	A36	86.25	99
5	2			PAD EYE, #2			CROSBY GROUP, S-264		0
6	7			PM, 2" DIA		4 1/2 in	KUSTOM KONCEPTS, M010	31.50	3
7	7			PM, 3" DIA		4 1/2 in	KUSTOM KONCEPTS, M010	31.50	8
8	2			PLATE, 3/16"	3 in	5 in	A36	10.00	2
9	1			PLATE, 3/16"	96 in	240 in	A36	240.00	156
10	6			SHEET, 10GA	2 1/2 in	3 3/4 in	A36	22.50	3
11	1			SHEET, 10GA	42 1/2 in	240 in	A36	240.00	50
12	2			TUBE, 4" x 2" x 1/4" (MITER BOTH ENDS)		52 in	A500B CLEAN COAT	104.00	55
13	3			TUBE, 4" x 2" x 3/16"		37 1/4 in	A500B CLEAN COAT	74.50	43
14	3			TUBE, 4" x 2" x 3/16"		42 3/4 in	A500B CLEAN COAT	128.25	74
15	2			TUBE, 4" x 2" x 3/16"		44 in	A500B CLEAN COAT	88.00	50
16	2			TUBE, 4" x 2" x 3/16"		132 in	A500B CLEAN COAT	264.00	151
17	1			TUBE, 4" x 2" x 3/16" (MITER BOTH ENDS)		137 1/2 in	A500B CLEAN COAT	137.50	78
18	2			TUBE, 4" x 2" x 3/16", (ROLL TO 155'-6 7/8" LD.)		236 3/8 in	A500B CLEAN COAT	472.75	271
19	2			TUBE, 4" x 2" x 3/16", (ROLL TO 155'-6 7/8" LD.)		253 7/8 in	A500B CLEAN COAT	507.75	291



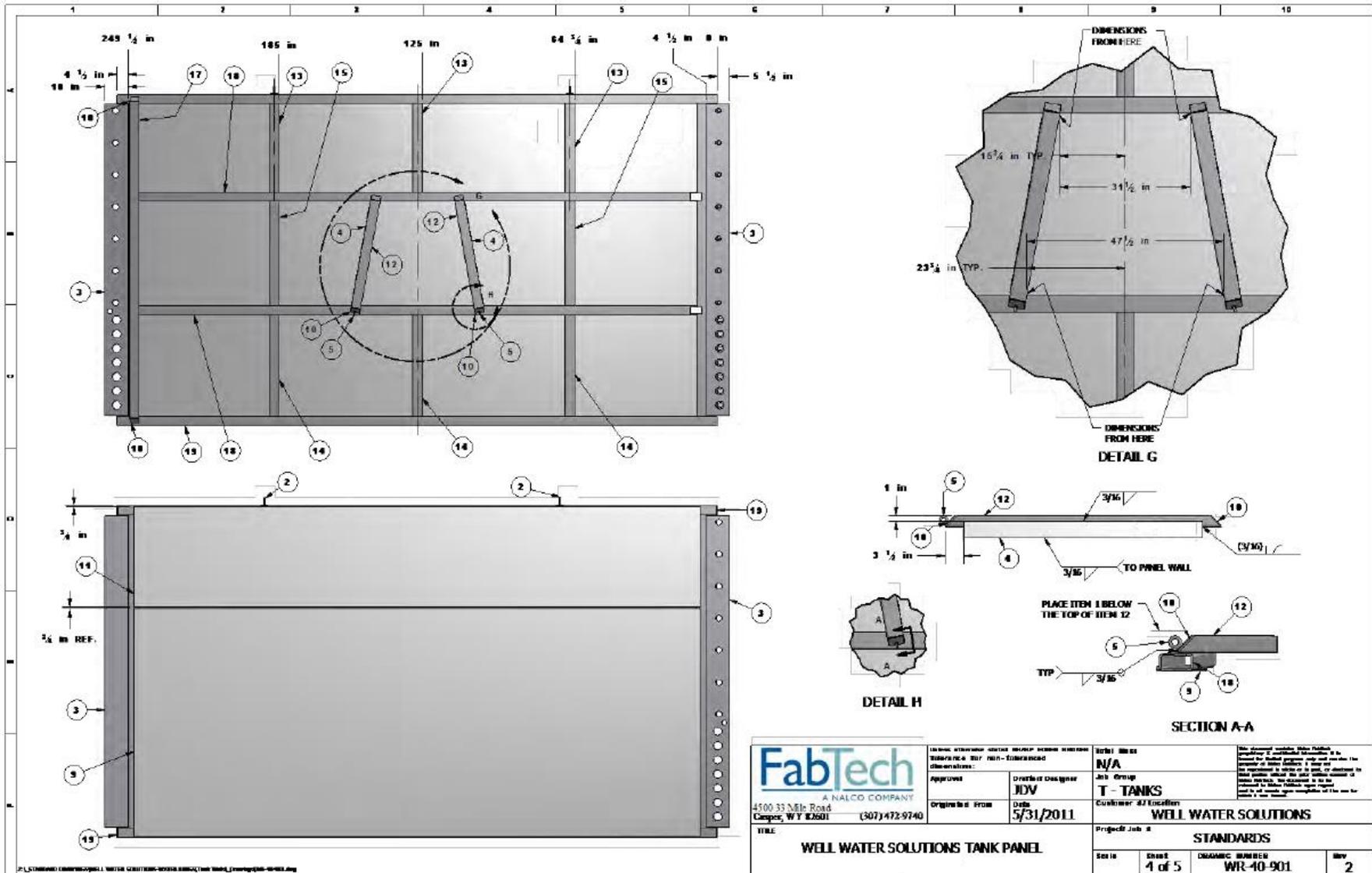
**NOTES:**  
 -THIS DRAWING REFLECTS ONE (1) ASSEMBLY  
 -TWENTY THREE (23) PANELS REQUIRED FOR ENTIRE TANK ASSEMBLY

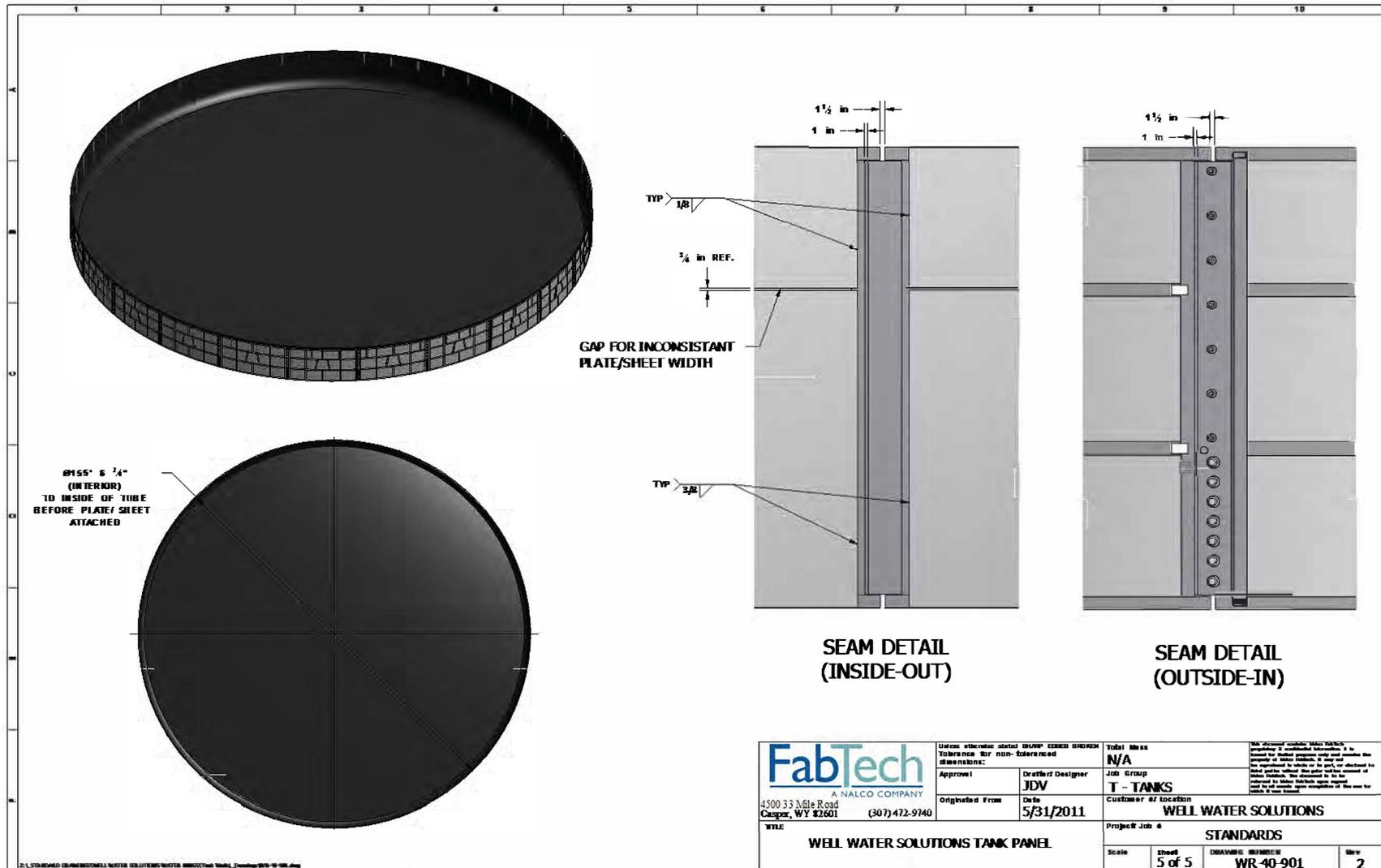
REV	REVISION	DATE	BY
2	STANDARDIZE NOTATIONS	11/17/2012	JDV
1	ADDED ITEMS 7, 8, & 16	12/09/11	DSG
0	FOR CONSTRUCTION REF(1050-901) CHANGED HEIGHT AND LOCATION OF PMS REF(11078-40-901)	3/1/2011	CJD

<p>A NALCO COMPANY</p> <p>4500 33 1/2 Rd Casper, WY 82601 (307)472-9740</p>	Unless otherwise stated SHARP CORNERS AND ROUNDS TO BE ROUNDED TO R16 UNLESS OTHERWISE SPECIFIED. APPROVED:	Title: N/A Job Group: T - TANKS CUSTOMER: WELL WATER SOLUTIONS	This drawing contains confidential information and is intended for internal use only. It is the property of FabTech. It is not to be distributed outside of the organization. If you are not an authorized user, you should not be viewing this drawing. If you have received this drawing in error, please notify the sender immediately.
	Drawn By: JDV Original Date: 5/31/2011	Project Job #: WELL WATER SOLUTIONS	
WELL WATER SOLUTIONS TANK PANEL		Scale: 1 of 5 Drawing Number: WR-40-901 Rev: 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 Ponderosa Unit 2310 P01 Staging 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 use of a 40-mil LLDPE primary liner and 30-mil LLPDE secondary liner. 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 containments being ASTs with 12-foot wall height, entrance to containments would have to be intentional. There is no risk of accidental entrance into containments by wildlife or the public. The site will be maintained to prevent harm to wildlife and the public. The freestanding above grade ASTs 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,

Steven Merrell  
Regulatory Specialist  
Enduring Resources, LLC.  
505.634.6490 – Cell

**Venegas, Victoria, EMNRD**

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**From:** Venegas, Victoria, EMNRD  
**Sent:** Tuesday, December 10, 2024 10:48 AM  
**To:** Heather Huntington  
**Subject:** 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512]  
**Attachments:** C-147 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512].pdf

**3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512]**

Good morning Ms. Huntington.

NMOCD has reviewed the recycling containment permit application and related documents, submitted by [371838] DJR OPERATING, LLC on 11/27/2024, Application ID 407167, for 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] in O-01-23N-10W, San Juan County, New Mexico. [371838] DJR OPERATING, LLC requested variances from 19.15.34 NMAC for 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512].

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.
- [371838] DJR OPERATING, LLC requests a variance to NMAC 19.15.34.12 (D)(l) and (2) which applies to fencing or enclosing the containment. The freestanding 12-foot wall height above grade ASTs will provide equal or better protection to public health and the environment, as the fencing requirements of NMAC 19.15.34.12 (D)(l) and (2). This variance is approved.

The form C-147 and related documents for 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] 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-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] is approved for five years of operation from the date of permit application. 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] permit expires on 11/27/2029. 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 10/27/2029.
- 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] consists of one (1) above ground storage tank (AST) of 60,000 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-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] 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-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] in compliance with NMAC 19.15.34 NMAC.
- [371838] DJR OPERATING, LLC shall notify OCD, through OCD Permitting when construction of 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] commences.
- [371838] DJR OPERATING, LLC shall notify NMOCD through OCD Permitting when recycling operations commence and cease at 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512].
- A minimum 3-foot freeboard must be maintained at 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] 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-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] are considered ceased and a notification of cessation of operations should be sent electronically to OCD Permitting. A request to extend the operations, 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-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] 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-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512].
- 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-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] in all future communications.

Regards,

**Victoria Venegas** • Environmental Specialist Advanced  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. Artesia, NM 88210  
575.909.0269 | [Victoria.Venegas@emnrd.nm.gov](mailto:Victoria.Venegas@emnrd.nm.gov)

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 407167

**CONDITIONS**

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 407167
	Action Type: [C-147] Water Recycle Long (C-147L)

**CONDITIONS**

Created By	Condition	Condition Date
vvenegas	3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] permit expires on 11/27/2029. 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 10/27/2029. • [371838] DJR OPERATING, LLC shall construct, operate, maintain, close, and reclaim 3RF-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512] 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-80 - PONDEROSA UNIT 2310 P01 STAGING AREA FACILITY [fVV2433953512].	12/10/2024