

DWC-02 Water Impoundment Reservoir Cleanout

Purpose

Removing accumulated sediment from state cost-share assisted water impoundment structures in response to Executive Order 18-05.

Applicability

Applies to DWC-1 Water Impoundment Reservoir that provides livestock water which has sediment that needs removed to return the original water storage volume to the structure.

Erosion Requirements

There are no erosion requirements for this practice.

Specifications

The completed practice must meet the NRCS Standards and Specifications for Critical Area Planting (342), Fence (382), livestock exclusion under Access Control (472), Watering Facility (614) contained in the Field Office Technical Guide.

Policies

1. To protect the integrity of the dam, no removal of sediment should come from the face, base or vicinity of the dam nor shall the dam be cut to drain the pond or a water supply line be bored through the dam.
2. The excavation of the spoils should not be below the original bottom of the pool area to reduce the risk of the dam developing a leak.
3. Spoil spreading best management practices:
 - Spoil must be placed and managed so that they do not erode back into the structure.
 - Do not place the spoils in drainage ditches, riparian areas or areas of concentrated water flow.
 - Spread spoil in relatively uniform layer.
 - Spoil area to blend with landscape.
 - Spoil slopes to be stable with 4 horizontal to 1 vertical (4:1) or flatter.
 - Maximum spoil depth is 3 feet above original ground.
 - Establish vegetation as soon as possible, or if area cannot be seeded, utilize temporary erosion control measures until the site can be successfully vegetated.

Consideration should be given to spreading the spoils on an adjacent field.

4. The volume of water storage must be calculated before the spoils are removed and after to determine the amount of increase in water storage from the cleanout utilizing **Pond Volume Spreadsheet**.
5. ***Cost-share is authorized for:***
 - a. Complete removal of sediment in the pool area on DWC-1 Water Impoundment Reservoir that will be utilized for livestock water.

- b. For livestock watering if a watering facility is not already available on the structure:
 1. the installation of a limited access point or
 2. a permanent siphon pipeline installed around the dam and a tank or
 3. a tank if the water supply line is already present.
 - c. Exclusion fence to protect from livestock if the structure previously was not fenced or the fence has deteriorated to where it will no longer exclude livestock. Grazing is not allowed at any time in the excluded area.
 - d. Critical area seeding for the spoil and areas above the normal pool elevation that was disturbed during the cleanout.
6. ***Cost-share is not authorized for:***
- a. Any repairs or modifications to the dam.
 - b. Replacement of spillway pipe.
 - c. Sediment removal in structures that will not provide livestock water.

Maximum State Cost-Share

1. Sediment removal incentive payment will be based on acres served and is a flat rate of \$1,000 per ½ acre of pool area, up to 2 acres with a maximum payment of \$4,000.
2. Assistance for other eligible activities is limited to 75% of the county average cost, not to exceed the state average cost for other components.

Map Requirements

1. An aerial photography map showing the existing DWC-1 must be attached to the contract when submitted for approval and for contract payment with the following items:
 - Landowner name and locational data (section/township/range or coordinates)
 - Farm perimeter
 - Field numbers, field boundaries, and field acres
 - Existing Fence
 - Planned Fence
 - Water Impoundment Reservoir Pool Area (acres)

Technical Responsibilities

District staff has the responsibility for determining the need for the practice, for design of the practice based upon the minimum extent necessary, and to certify that the completed practice meets commission policy.

Acres Served

Size of pool area.

Extent Installed

Gallons of increased water storage.

Maintenance Life

10 years.