



OPERATION AND MAINTENANCE
Sediment Basin (350)

_____ Landowner _____ Service Center

_____ County _____ Date

A **sediment basin** designed, operated, and maintained according to **Conservation Practice Standard 350** is a conservation asset and will protect natural resources. A sediment basin operates during rainfall events without monitoring by the client. However, regular inspection and prompt post-storm maintenance is necessary to ensure the sediment basin continues to fulfill its purpose economically and with minimum impact to downstream resources. The estimated life span of a sediment basin is at least 20 years, but its service life can normally be increased by performing a consistent Operation and Maintenance (O&M) program.

The activities listed below, at a minimum, are required to operate and maintain this practice in good working order.

Following rainfall events greater than ½ -inch in any 24-hour period, inspect the following:

1. Check the embankment and excavated spillway slopes for erosion which has removed vegetation. Restore eroded soils and reseed and mulch damaged areas in the same manner as the original construction.
2. Check the principal spillway inlet and outlet. Remove debris which will obstruct flow. Look for displaced outlet armoring and replace armoring to the as-built location and shape.
3. If the storm event caused flow through the auxiliary spillway, restore the auxiliary spillway profile to design grade and shape. Verify that the auxiliary spillway crest is restored to design elevation following maintenance.
4. Check the level of sediment captured in the basin.

Perform routine inspections of the sediment basin every 3 months throughout its use and promptly maintain its capacity and safety functions. In addition to the above items, inspect the following:

1. Check the integrity of fencing, safety warning signs, and any other safety measures. Promptly repair or replace these measures.
2. Visually check the principal spillway riser for changes which may indicate unusual settlement. Examine the outlet pipe for leaks at pipe joints. Contact NRCS for technical assistance with structural problems of the principal spillway.

3. Maintain vigorous vegetative cover on the embankment, auxiliary spillway, and other disturbed areas with appropriate soil amendments and regular mowing to prevent growths of woody vegetation.
4. When the sediment level reaches the design clean-out depth, perform a clean-out before the next predicted rainfall.
 - a. Note the depth of the sediment and excavate accordingly. Check the grade of the sediments during clean-out operations to avoid over-excavation and unnecessary disposal work.
 - b. Dispose of sediment at the location and in the manner as designed. Install erosion and sediment control measures at the disposal site immediately after placing sediments. Seed disposal area within 24 hours of placing sediment.
 - c. Repair the maintenance access grade and reseed as needed following each clean-out operation.

5. Other Site-Specific Requirements:

<u>Inspection Date</u>	<u>Items to be Repaired and Corrective Action Taken</u>	<u>Repair Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Contact your local NRCS office for any additional technical assistance to implement this O&M plan.

This O&M Plan was discussed and a copy provided to the landowner/operator _____

NRCS Staff Initials & Date