

OPERATION AND MAINTENANCE PLAN
ROADSIDE EROSION CONTROL MEASURES
CHIGLEY SANDY CREEK WATERSHED

OPERATION

A. The Sponsor will:

Be responsible for and maintain the erosion control measures. The operations will be carried out in a manner that will assure that the erosion control measures will serve the purpose for which they were installed as set forth in the watershed work plan.

B. The Service will:

Provide consultative assistance in the operation of the structural measures.

MAINTENANCE

A. The Sponsor will:

1. Maintain the works of improvement

a. Vegetation

1. Refrain from leaving V-type ditches following any maintenance work that may be done with motor grader.
2. Reestablish significant areas of poor stand or areas destroyed by equipment and/or erosion. If necessary restore areas of erosion before reestablishing.
3. Fertilize vegetation as required to maintain a vigorous growth.
4. Mow as needed to retard undesirable plants.

b. Structures

1. Fill contraction cracks in lined channels with appropriate material.
2. Rehabilitate damaged pipe inlets from road or side channels if need be. Replace eroded soil adjacent to the installed structures.
3. Provide facilities, equipment and staff to operate and maintain the project.

II. MAINTENANCE

The parties hereto agree as follows to the maintenance of the above described works of improvement:

A. The Sponsoring Local Organization will:

1. Assume the responsibility for the maintenance of the works of improvement listed on Page 1 of this agreement and assume the costs of the maintenance operations.
2. Make an annual inspection and make a record of findings by October 1 of each year with a representative of the Service as may be assigned by the State Conservationist. Items to be checked at time of inspection will include, but not limited to, the following:
 - a. Principal Spillway
 - (1) Damage or obstructions.
 - (2) Condition of outlet and riser.
 - (3) Elevation of sediment in relation to top or riser.
 - (4) Trash rack or anti-vortex baffle.
 - b. Emergency Spillways
 - (1) Erosion of spillway.
 - (2) Sedimentation of spillway channel.
 - (3) Vegetation, weeds, or debris that reduce capacity.
 - (4) Conformity with original design (deposition or sloughing).
 - c. Embankments
 - (1) Settlement or cracking, or both.
 - (2) Erosion.
 - (3) Signs of leakage.
 - (4) Protective vegetative cover.
 - d. Flood Channel
 - (1) Deposition of sediment.
 - (2) Bank cutting.
 - (3) Lodging of debris.
 - (4) Condition of riprap and other works.
 - e. Fence and Gates
 - (1) Breakages or damage.
 - (2) Condition of gates.
3. Make an inspection after each flood flow. Remove and dispose of debris accumulating against fences, in and around the principal spillway, in emergency spillways, or on the dam. It is desirable that these unscheduled inspections be performed by the parties to this agreement in company with each other.

4. Perform all maintenance needs that are mutually agreed to be necessary by the inspection party. These "Agreed to" maintenance needs will be performed within the time limits mutually agreed to by the above mentioned inspection teams. Maintenance will include, but not be limited to, the following:
 - a. Remove and dispose of debris accumulating against fences, in and around principal spillway, in emergency spillways, or on dam.
 - b. Repair channels as required.
 - c. Repair damaged riprap (if applicable).
 - d. Repair erosion damage such as scouring of emergency spillways, embankment, and gullies endangering structures.
 - e. Repair fence and gates.
 - f. Maintain a protective grass cover on the dams and in the emergency spillways.
 - g. Complete other maintenance work as recommended in Service inspection reports.
5. Provide the Service, after each inspection, with a time schedule for accomplishing the maintenance required.
6. Keep a record of maintenance inspections and operations and have it available at all times for inspection by the Service.
7. Provide free access to representatives of the Service to inspect the works of improvement covered in this agreement at any time.
8. Execute a maintenance agreement satisfactory to the Service when any operations and maintenance is to be performed by an organization other than the Sponsoring Local Organization; and incorporate such an agreement as a supplement to this Operation and Maintenance Agreement before an invitation to bid is issued.

B. The Service will:

1. Provide necessary personnel to participate in scheduled inspections to determine maintenance requirements.
2. Provide the Sponsoring Local Organization technical services as needed and available to prepare plans, specifications, and designs for maintenance and operation activities.
3. Provide the Sponsoring Local Organization with a written report of maintenance inspections.

III. EQUIPMENT, MATERIALS AND METHODS

- A. Types of equipment and materials that will normally be required for operation and maintenance are, but not limited to:
 1. Equipment - for grass planting, mowing and fence repair; other equipment that will be required during heavy flows through emergency spillway will be tractors with bulldozer or carryall, dump truck or grader.

III. Equipment, Materials, and Methods - Cont'd

- 2. Materials - earth fill material, seed, fertilizer, grass seed and roots, fence posts and wire.

IV. ANNUAL MAINTENANCE COST

Annual maintenance cost of the 10 floodwater retarding structures, is estimated to be \$ 1,000. Funds to carry out this responsibility will be secured as follows:

- A. Popular subscription, supplemented by the District Operations funds.
- B.

No member of or Delegate to Congress, or Resident Commissioner shall be admitted to any share or part of this agreement or to any benefit to arise therefrom. This provision shall not be construed to extend to this agreement if made with a corporation for its general benefit.

Murray County Soil Conservation District

By: Paul E. Thompson
 Title: Secy.-Treas., Board of Supervisors
 Date: April 11, 1960

This action authorized at an official meeting of District Board on 11th day of April 1960, at Sulphur State of Oklahoma

Attest: Richard Mouton
 Title: Chairman, Board of Supervisors

By: _____
 Title: _____
 Date: _____

This action authorized at an official meeting of District Board on _____ day of _____ 19____, at _____ State of Oklahoma.

Attest: _____
 Title: _____

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

By: Ray Walker
 Title: State Conservationist
 Date: 6-7-60