CONSERVATION ENHANCEMENT ACTIVITY

E554118Z1

Installation of end of pipe or ditch treatment for phosphorus

Conservation Practice 554: Drainage Water Management

APPLICABLE LAND USE: Crop (Annual & Mixed); Crop (Perennial); Associated Ag Land

RESOURCE CONCERN ADDRESSED: Water Quality Degradation

ENHANCEMENT LIFE SPAN: 1 year

Enhancement Description

Add end of pipe/ditch treatment. If dissolved phosphorus is the pollutant of concern, use Interim CPS 782, Phosphorus Treatment Structure for each drainage outlet in a field.

Criteria

- Design system for an expected life of at least 10 years, unless provisions are made for periodic media replacement.
- Size system to reduce phosphorous concentration of water flowing through system.
- Construct surface of system to shed water and allow for settlement. Blend excess soil with the adjacent landscape or haul away.
- Use fence or signage to identify system to avoid equipment travel over system.
- Use a sediment basin, geotextile lining, or containment vessel to prevent migration of soil particles into the phosphorous removal system.
- Use media that is recyclable or disposable when used up in its phosphorus removal capacity. Dispose of media in a proper manner following applicable permits or requirements.
• Phosphorus reducing media can be housed in polyethylene or polypropylene tanks or other approved tank or trench with access ports for clean out and inspection as appropriate.

• Ensure that the quality of discharge water from treatment structures is not detrimental to downstream waters.

• Enhancement will comply with all applicable federal, state, and local laws and regulations.
Documentation and Implementation Requirements:

Participant will:

☐ Prior to implementation, acquire NRCS approval of selected locations for installation of the enhancement.

☐ Prior to implementation, submit for NRCS’s approval the plan view and location of proposed structure. Included profile and details of each structure along with removal media selected.

☐ During implementation, document and record installation including photos.

☐ During implementation, develop an operation and maintenance plan, including water level management, changes in phosphorus loading into and out of structure, and media replacement, as needed.

☐ After implementation, make the follow items available for review by NRCS to verify implementation of the phosphorous removal system enhancement:
  - Operation and maintenance plan
  - Documentation including photos of installation of structures

NRCS will:

☐ As needed, provide additional technical assistance to the participant as requested.

☐ Prior to implementation, as needed, provide explanation of NRCS Conservation Practice Interim Standard Phosphorus Treatment Structure (Code 782) and any State specific protocol as it relates to implementing this enhancement.

☐ Prior to implementation, as needed, provide technical assistance in determining sites for enhancement implementation that meet specified criteria.

☐ Prior to implementation, review and approve plan map, profile, and material selections of each proposed structure.

☐ After implementation, verify installation of structures and Operation and Maintenance plan.
NRCS Documentation Review:

I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements.

Participant Name ______________________________ Contract Number ________________

Total Amount Applied __________________________ Fiscal Year Completed ______

__________________________________ _____________
NRCS Technical Adequacy Signature Date