



ATTACHMENT TO COST-SHARE AGREEMENT NO. _____

605 - PROVISIONS FOR DENITRIFYING BIOREACTOR

I understand that I will be responsible for maintaining the Denitrifying Bioreactor for 10 years (practice maintenance life). This practice should be managed according to the Maryland conservation practice standard for Denitrifying Bioreactor (Code 605). At a minimum, the following components shall be addressed:

- When water is released from a water control structure, high velocity flow has the potential of damaging the tile line. To prevent damage, lower the water level in the structure gradually. This is most easily achieved by pulling all the boards up no more than 2 inches, resulting in a 2-inch gap at the bottom of the structure.
- Inspect after significant storm events and at least twice a year to identify repair and maintenance needs. Monitor surrounding areas for signs of vegetation stress due to prolonged wetness. Contact NRCS if an adjustment in board settings may be necessary.
- Check the valves for proper functioning. Lock structures when not in use to prevent tampering and/or vandalism. Promptly repair or replace damaged or inoperable components.
- Remove debris that may accumulate on, around or immediately upstream or downstream from the installed structure.
- Remove debris from any surface inlets to the drainage system, to prevent excessive clogging of the bioreactor flow path. Keep any surface inlets that are connected to the supply tile in good repair to minimize trash entry into the system.
- Repair any settlement or erosion that occurs along buried pipes. If this problem persists, evaluate the pipe for leakage and erosion of the fill material into or along the pipe.
- Eradicate or otherwise remove all rodents or burrowing animals. Immediately repair any damage caused by their activity.
- Protect the bioreactor from damage by farm equipment and livestock.
- For a bioreactor designed with an open top, monitor the level of the wood chips and add more chips if they settle below the level of the ground surface.
- For a bioreactor designed with a soil cap over the wood chip chamber, monitor to make sure that the soil over the wood chips does not settle below the level of the natural ground in the area. Make sure that the ground on top of the wood chips does not become ponded with water. Contact NRCS for assistance if settlement becomes a problem. More wood chips may need to be added or additional soil.
- Consider measures to reduce the potential for root plugging of distribution lines by woody species. Set planted trees back far enough that distribution lines will not be under the drip line of mature tree canopies. Plant herbaceous species in areas over distribution lines. If the riparian area is currently in trees, either clear the trees or establish an herbaceous zone outside the tree line for the water distribution area.

I have read the above provisions and shall comply with them.

By: _____

Date: _____