



Submit report to:
 City of Lynchburg
 525 Taylor Street
 Lynchburg, Virginia 24501
 Attn: Stormwater BMP
 434-455-4250

**GRASS CHANNELS: O&M CHECKLIST – Virginia Stormwater Management Handbook,
 Chapter 9-C.4.0.**

Inspection Date _____

Project _____ Site Plan/Permit Number _____

Location _____ Date BMP Placed in Service _____

Date of Last Inspection _____ Inspector _____

Owner/Owner's Representative _____

As-Built Plans available: Y / N

Type of pretreatment facility:

- Sediment Forebay
- Check Dam
- Grass Filter Strip
- Stone Diaphragm
- Other: _____
- None

Ideally, these BMP areas should be inspected annually, with the inspection conducted spring when the health of the grass channel lining should be evident. Once established, Grass Channels have minimal maintenance needs outside of the Spring clean up: regular mowing, repair of check dams and other measures to maintain the hydraulic efficiency of the channel and a dense, healthy grass cover.

| Element of BMP | Potential Problem | Y / N | How to Fix Problem | Who Will Address Problem | Comments |
|----------------------------|--|-------|---------------------------|--------------------------|----------|
| Contributing Drainage Area | There is excessive trash and debris | | Remove immediately | Owner or professional | |
| | There is evidence of erosion and / or bare or exposed soil | | Stabilize immediately | Owner or professional | |
| Pre-treatment | There is adequate access to the pre-treatment facility | | Establish adequate access | Professional | |
| | There is excessive trash / debris / sediment in the facility | | Remove immediately | Owner or professional | |

| Element of BMP | Potential Problem | Y / N | How to Fix Problem | Who Will Address Problem | Comments |
|---------------------------|--|-------|---|--------------------------|----------|
| Pre-treatment (continued) | There is evidence of erosion and / or exposed soil | | Stabilize immediately | Owner or professional | |
| | There is evidence of diaphragm or other clogging | | Identify and eliminate the source of the problem; . If necessary, remove and clean or replace the stone. | Professional | |
| | There is dead vegetation and evidence of erosion and / or exposed soil | | Repair erosion damage, and reseed or otherwise restabilize with vegetation | Owner or professional | |
| Inlets | The inlet is not maintaining a calm flow of water entering the channel or the conveyance capacity is blocked | | Remove trash and sediment accumulated at the inflow. Sources of sediment and debris must be identified and corrected. Stone splash pads must be replenished to prevent erosion. | Owner or professional | |
| | There is evidence of erosion at / around inlet | | Repair erosion damage, and reseed or otherwise restabilize with vegetation. | Owner or professional | |
| Vegetation | Native soil is exposed or erosion channels are forming | | If sediment deposits are thick enough to damage or kill vegetation, remove the sediment by hand, while protecting the vegetation. | Owner or Professional | |
| | Grass height does not reach standards | | Grass channels must be mowed to keep grass at a height of 4" to 9". Remove grass clippings after mowing. | Owner or Professional | |
| | Vegetation requires fertilizer or pest control | | Fertilize according to specifications. Use organic rather than chemical fertilizer. If feasible, use compost. Use integrated pest management (IPM) techniques to minimize the use of pesticides and herbicides. | Owner or Professional | |
| | The plant composition is consistent with the approved plans | | Make a judgment regarding whether plants need to be replaced, and replace if necessary | Professional | |
| | Invasive species or weeds are present | | Correctly destroy and/or remove the invasive species; make a judgment regarding whether other weeds need to be removed, and remove if necessary | Owner or professional | |
| | There is dead vegetation and/or exposed soil | | Reseed or replace dead vegetation and exposed soil areas | Owner or professional | |
| Side Slopes | Evidence of erosion on side slopes, introducing sediment into the swale. | | Repair erosion damage immediately. Stabilize slopes using appropriate erosion control measures and plant | Owner or Professional | |

| Element of BMP | Potential Problem | Y / N | How to Fix Problem | Who Will Address Problem | Comments |
|----------------|---|-------|--|--------------------------|----------|
| | | | appropriate vegetation. | | |
| Check Dams | Dam is not functioning properly. | | Check upstream and downstream sides of check dams for evidence of undercutting, side cutting or erosion and repair immediately. | Professional | |
| | There is a large accumulation of sediment or trash/debris behind the check dam. | | Remove sediment when the accumulation exceeds 25% of the original Tv. Remove trash/debris and clear blockages of weep holes. | Professional | |
| Channel Bottom | Undesirable plant species, accumulations of fallen leaves, and other debris from deciduous plant foliage are present. | | Remove woody vegetation from the channel. Prune adjacent trees and shrubs to keep the channel clear. Remove/replace invasive veg. or weeds if they cover < 25% of the channel area. Remove accumulated organic matter and debris immediately. | Owner or Professional | |
| | Base soils are compacted. The practice does not draw down within 48 hours after a storm. | | De-thatch and aerate the channel. Remove sediment when the accumulation exceeds 25% of channel volume. Restore the original cross section and revegetate the channel. | Owner or Professional | |
| | There is unhealthy or dead grass cover or evidence of erosion, braiding, or excessive ponding in the channel bottom | | Fill in low spots, repair erosion, and add reinforcement planting to maintain 90% turf cover. Reseed any salt killed vegetation and stabilize immediately. Keep the grass in a healthy, vigorous condition at all times, since it is the primary erosion protection for the channel. | Owner or Professional | |
| Channel Outlet | The outlet does not maintain sheet flow of water exiting the channel (unless a collection drain is used). | | The source of erosion damage must be identified and controlled when native soil is exposed or erosion channels are forming. Check the channel outlet and all road crossings for bank | Owner or professional | |

| Element of BMP | Potential Problem | Y / N | How to Fix Problem | Who Will Address Problem | Comments |
|---------------------|---|-------|---|--------------------------|----------|
| | | | stability and evidence of piping or scour holes. | | |
| | The outlet provides stable conveyance out of the channel | | Stabilize immediately, as needed. | Professional | |
| | There is excessive trash, debris or sediment accumulation at outlet | | Check inflow points for clogging and remove any trash and sediment deposits | Owner or professional | |
| | There is dead vegetation and/or exposed soil | | Reseed or replace dead vegetation and exposed soil areas | Owner or professional | |
| Pest Control | There is evidence of standing water and mosquito habitat or rodent damage | | Pest control measures must be taken when mosquitoes and/or rodents are found to be present. If sprays are considered, then a mosquito larvicide, such as Bacillus thurendensis or Altoside formulations can be applied <i>only if absolutely necessary</i> . Holes in the ground located in and around the swale must be filled and stabilized with vegetation. | Professional | |
| Overall | Access to the Grass Channel is adequate | | Establish adequate access | Professional | |
| | Complaints from local residents | | Correct real problems | Owner or professional | |
| | Encroachment by buildings or other structures | | Clearly mark BMP and inform those involved of the BMPs. | Owner or professional | |