3rd Party Construction Inspection Checklist and Certification: Bioretention (P-FIL-05)



(DEQ Spec. P-FIL-05 (Formerly DEQ Spec. No. 9) & PFM 6-1307)

Site Development and Inspections Division
Fairfax County Land Development Services
12055 Government Center Parkway, Suite 535, Fairfax, VA 22035
Phone: 703-324-1720, TTY 711

www.fairfaxcounty.gov/landdevelopment

| Project Name: | Construction Firm: |
|--|---|
| County Record Number: | 3 rd Party Inspection Firm: |
| Site Address: | 3 rd Party Inspector's Name: |
| Latitude / Longitude:°N°W | Contact Info / Phone Number: |
| BMP ID Number as shown on plan and general location on the | site: |

- A certification is required for all SWM/BMP facilities under PFM 6-1300 et. seq.
- A Virginia licensed professional engineer or licensed professional meeting the exemption requirements of the Code of Virginia §54.1-401 must sign the certification at the end of this checklist.

Instructions:

- Check each item as complete or write in "N/A" for those items that are not applicable.
- Fill in blanks for requested information on dimensions, materials, etc.
- Provide one or more photos for applicable items; checkboxes indicate items that <u>require</u> photos. Name the photo what it relates to and upload.

Pre-Installation Meeting and Site Preparation

| CHECK | РНОТО | DESCRIPTION | DATE OF INSPECTION / COMMENTS |
|-------|-------|--|-------------------------------|
| | | Pre-Installation Meeting with - contractor designated to install the facility - 3rd party inspector (or designee) - Fairfax County Inspector A review of checklist and tentative schedule for interim inspections and sign-offs has been discussed | |
| | | Bioretention area has not been impacted during construction or has been remediated prior to installation. Circle one: Not Impacted Remediated | |
| | | Impervious cover draining to the BMP have been constructed and area is free of equipment, vehicles and material storage | |
| | | Pervious areas of contributing drainage area have been stabilized with adequate vegetation. | |
| | | Stormwater diverted around the bioretention area and perimeter E&S controls to protect the BMP during construction have been installed. | |
| | | Drainage area slopes toward the bioretention facility. | |

Excavation

| CHECK | РНОТО | DESCRIPTION | DATE OF INSPECTION / COMMENTS |
|-------|-------|---|-------------------------------|
| | | Size & horizontal location conforms to approved plans. Area of Excavation (L x W) | |
| | | If the area has previously been used as sediment trap, verify that the bottom of the proposed stone reservoir is lower than the bottom elevation of the existing trap. | |
| | | Level 2 bioretention: Excavation bottom was scarified prior to placement of stone. | |
| | | Subgrade surface free of rocks, roots, and large voids. (Voids may be refilled with base aggregate to create a level surface for the placement of aggregates and underdrain.) | |
| | | No groundwater seepage or standing water is present. Any standing water is dewatered to an acceptable dewatering device, and the design consultant has been notified. | |
| | | Excavation depth and side grades per approved plans. Depth of Excavation ft. Grade of Side Slope ft./ft. | |
| | | Excavation of the facility has not compacted the bottom. | |

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Filter Layer, Underdrain and Stone Reservoir Placement

| CHECK | РНОТО | DESCRIPTION | DATE OF INSPECTION / COMMENTS |
|------------|--------------|--|-------------------------------|
| | | Impermeable liner (when required) is placed in accordance with manufacturer specs & approved plans. | |
| | | Sides of excavation covered with non-woven geotextile (when required), with no tears, holes, or excessive wrinkles. | |
| | | Underdrain size, spacing, base material installed per approved plans. Underdrain Diameter inches Underdrain Material Slope % Underdrain Spacing ft. Perforation Size & Spacing inches. Bedding material Depth above/below underdrain / inches Number of Cleanouts | |
| | | Underdrain discharge/daylight per approved plans. Underdrain Diameter inches Underdrain Material Underdrain blocked (Check one) □ Yes □ No | |
| | | Restriction device / flow control device (when required) placed per approved plans. | |
| | | Observation well(s) installed per approved plans. Number of Observation Wells Pipe material Pipe Diameter Perforation Size & Spacing | |
| | | Stone aggregate placed to per approved plans. Gravel material: Depth of gravel stone sump layer ft. | |
| | | choker stone/pea gravel installed per approved plans. Choker material: Depth of choker material: | |
| Soil Media | a Placeme | ent | |
| CHECK | РНОТО | DESCRIPTION | DATE OF INSPECTION / COMMENTS |
| | | Soil media certification per project specifications. | |
| | | Filter media placed in 8 – 12-inch lifts. No machinery over the filter media. Filter media raked to a level grade after final lift. | |
| | | Depth of Bioretention filter mediaft. | |
| | | Filter media settlement Facility flooded (2-4 days after initial placement) until the underdrain is activated. Top elevation verified after draining. | |
| Final Stak | oilization a | and Plant Installation | |
| CHECK | РНОТО | DESCRIPTION | DATE OF INSPECTION / COMMENTS |
| | | Pretreatment practices (leaf screens, grass filter strips, gravel diaphragm, forebay, sump pit, energy dissipators, etc.) upstream of the bioretention conform to approved plans. List practices here with dimensions if applicable: | |

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acres

Drainage area draining to the facility, including roof drains and overland flow conforms to approved plan.

Overland inflow area grading visually conforms to approved

Number of inflow pipes flowing overland toward facility

Downspout piping conforms to approved plans.

Number of downspouts piped to the facility

Total contributing area:

| CHECK | РНОТО | DESCRIPTION | DATE OF INSPECTION / COMMENTS |
|--|------------|---|--|
| | | External bypass structure (when required) conforms to approved plans. | |
| | | Mulch composition and depth conform to approved plans. Depth of mulch layer: Inches | |
| | | Final ponding depth (from top of mulch to lowest overflow point) conforms to plan. Depth of ponding areaInches. (above mulch, 12" maximum) | |
| | | Riser or overflow weir conforms to approved plans. | |
| | | Perimeter berm and overflow weir placed per approved plans. Berm Heightft (2' max from downstream toe). Berm Width (usually 2 ft.) ft. Side Slopes (max. 3:1)% | |
| | | Signs installed as shown on approved plans. | |
| | | Plant installation conforms to approved plans, and all plants are healthy. No. of trees No. of shrubs | |
| | | Final grades within the bioretention after plant and mulch installation match the approved plan elevations. | |
| | | Provide a photo of the BMP facility after the mulch and plants installed. | |
| | | Only for Bioretentions that do not have underdrains. Drawdown observed after (check one) Rainfall event Observed drawdown timehours (include test results) | |
| | | Copy of material delivery tickets included | |
| Final Certification do hereby certify that this as-built information for the stormwater management/BMP facility was inspected by me (or by an individual under my responsible charge) and conforms to the approved plans, except as indicated. Signature: Date: License Number (Seal): | | | |
| | | | |
| ("Certify" r | neans to s | state or declare a professional opinion based on sufficient a | and appropriate onsite inspections and |

material tests conducted during construction)

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