|  |
| --- |
| **Bioretention / Rain Garden Inspection Checklist** |
| ***Inlet (inflow type could be open channel, sheet flow, closed pipe, riprap apron, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is inlet erosion present? | [ ]  | [ ]  | [ ]  |
| 2. | Is inlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does inlet appear to have structural problems?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Outlet (positive overflow outlet type could be riser, weir, emergency spillway, underdrain, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is outlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is outlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does outlet show structural problems or signs of leakage?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Pretreatment Area (forebay, vegetated or riprap channel, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is sediment buildup present?  | [ ]  | [ ]  | [ ]  |
| 2.  | Is Pretreatment being bypassed?  | [ ]  | [ ]  | [ ]  |
| 3. | Is there sediment flow from pretreatment to SCM?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Media*** | **YES** | **NO** | **N/A** |
| 1. | Is there uniform coverage of mulch or other ground cover?  | [ ]  | [ ]  | [ ]  |
| 2. | Is sediment deposition evident?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Vegetation (such as trees, shrubs, grasses, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
| 2. | Does the plant cover appear healthy?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Structure*** | **YES** | **NO** | **N/A** |
| 1. | Is bank erosion occurring?  | [ ]  | [ ]  | [ ]  |
| 2. | Are side slopes stable?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Trash*** | **YES** | **NO** | **N/A** |
| 1. | Is trash blocking/clogging either the inlet or outlet structure?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Water Quality*** | **YES** | **NO** | **N/A** |
| 1. | Is there standing water more than 72 hours after a rain event?  | [ ]  | [ ]  | [ ]  |
| 2. | Is there algae, evidence of pollution (sheen, etc.), or evidence of mosquito larvae present?  | [ ]  | [ ]  | [ ]  |

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| **Dry Detention Basin Inspection Checklist** |
| ***Inlet (inflow type could be open channel, sheet flow, closed pipe, riprap apron, etc. Inflow should not be submerged at normal pool depth)*** | **YES** | **NO** | **N/A** |
| 1. | Is inlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is inlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does inlet appear to have structural problems?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Outlet (multistage outlet structure should be present - low flow outlet, primary outlet, and emergency overflow)*** | **YES** | **NO** | **N/A** |
| 1. | Are energy dissipators present at end of primary outlet?  | [ ]  | [ ]  | [ ]  |
| 2. | Is there erosion at the outlet?  | [ ]  | [ ]  | [ ]  |
| 3. | Is outlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 4. | Does outlet show structural problems or signs of leakage?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Pretreatment area (forebay, vegetated or riprap channel, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is sediment buildup present?  | [ ]  | [ ]  | [ ]  |
| 2.  | Is there sediment flow from pretreatment to SCM?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Vegetation (trees, shrubs, grasses, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
| 2. | Does the plant cover appear healthy?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Structure*** | **YES** | **NO** | **N/A** |
| 1. | Is bank erosion occurring?  | [ ]  | [ ]  | [ ]  |
| 2. | Are side slopes stable?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Trash*** | **YES** | **NO** | **N/A** |
| 1. | Is trash blocking/clogging either the inlet or outlet structure?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Water Quality*** | **YES** | **NO** | **N/A** |
| 1. | Is there standing water more than 72 hours after a rain event?  | [ ]  | [ ]  | [ ]  |
| 2. | Is there algae, evidence of pollution (sheen, etc.), or evidence of mosquito larvae present?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Outfall Conditions (Outside SCM)*** | **YES** | **NO** | **N/A** |
| 1. | Is there erosion, sedimentation, or trash accumulation at the outfall discharge outside of the SCM?  | [ ]  | [ ]  | [ ]  |
| 2. | Is Pretreatment being bypassed?  | [ ]  | [ ]  | [ ]  |

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| **Wet Pond Inspection Checklist** |
| ***Inlet (inflow type could be open channel, sheet flow, closed pipe, rip rap apron, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is inlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is inlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does inlet appear to have structural problems?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Outlet (positive overflow outlet type could be riser, weir, emergency spillway, underdrain, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is outlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is outlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does outlet show structural problems or signs of leakage?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Pretreatment Area (forebay, vegetated or riprap channel, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is sediment buildup present?  | [ ]  | [ ]  | [ ]  |
| 2.  | Is Pretreatment being bypassed?  | [ ]  | [ ]  | [ ]  |
| 3. | Is there sediment flow from pretreatment to SCM?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Vegetation (trees, shrubs, grasses, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
| 2. | Does the plant cover appear healthy?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Structure*** | **YES** | **NO** | **N/A** |
| 1. | Is bank erosion occurring?  | [ ]  | [ ]  | [ ]  |
| 2. | Is there damage to the bank structure such as slumping or evidence of bank failure?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Trash*** | **YES** | **NO** | **N/A** |
| 1. | Is trash blocking/clogging either the inlet or outlet structure?  | [ ]  | [ ]  | [ ]  |
| 2. | Is there algae, evidence of pollution (sheen, etc.), or evidence of mosquito larvae present?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Outfall Conditions (Outside SCM)*** | **YES** | **NO** | **N/A** |
| 1. | Is there erosion, sedimentation, or trash accumulation at the outfall discharge outside of the SCM?  | [ ]  | [ ]  | [ ]  |

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| **Infiltration Basin Inspection Checklist** |
| ***Inlet (inflow type could be roof leader, sheet flow, closed pipe, cut curb, etc.)***  | **YES** | **NO** | **N/A** |
| 1. | Is inlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is inlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does inlet appear to have structural problems?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Outlet (positive overflow outlet type could be riser, weir, emergency spillway, underdrain, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is outlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is outlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does outlet show structural problems or signs of leakage?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Pretreatment Area (forebay, vegetated or riprap channel, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is sediment buildup present?  | [ ]  | [ ]  | [ ]  |
| 2.  | Is Pretreatment being bypassed?  | [ ]  | [ ]  | [ ]  |
| 3. | Is there sediment flow from pretreatment to SCM?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Media*** | **YES** | **NO** | **N/A** |
| 1. | Is there uniform coverage of mulch or other ground cover?  | [ ]  | [ ]  | [ ]  |
| 2. | Is sediment deposition evident?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Vegetation* *(trees, shrubs, grasses, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
| 2. | Does the plant cover appear healthy?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Structure*** | **YES** | **NO** | **N/A** |
| 1. | Is bank erosion occurring?  | [ ]  | [ ]  | [ ]  |
| 2. | Are side slopes stable?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Trash*** | **YES** | **NO** | **N/A** |
| 1. | Is trash blocking/clogging either the inlet or outlet structure?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin: Water Quality*** | **YES** | **NO** | **N/A** |
| 1. | Is there standing water more than 72 hours after a rain event?  | [ ]  | [ ]  | [ ]  |
| 2. | Is there algae, evidence of pollution (sheen, etc.), or evidence of mosquito larvae present?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Outfall Conditions (Outside SCM)*** | **YES** | **NO** | **N/A** |
| 1. | Is there erosion, sedimentation, or trash accumulation at the outfall discharge outside of the SCM?  | [ ]  | [ ]  | [ ]  |

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| **Infiltration Bed / Trench Inspection Checklist** |
| ***Inlet (inflow type could be roof leader, sheet flow, closed pipe, cut curb, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is inlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is inlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does inlet appear to have structural problems?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Infiltration Bed*** | **YES** | **NO** | **N/A** |
| 1. | Is an overflow outlet present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is an observation port, pit, or sump present?  | [ ]  | [ ]  | [ ]  |
| 3. | Is there proper surface grading of less than 5% slope?  | [ ]  | [ ]  | [ ]  |
| 4 | Are adjacent earthen vegetated areas adequately stabilized?  | [ ]  | [ ]  | [ ]  |
| 5. | Is standing water present?  | [ ]  | [ ]  | [ ]  |
| 6. | Is there surface sediment?  | [ ]  | [ ]  | [ ]  |
| 7. | Does there appear to be surface contamination?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Infiltration Bed Vegetation (trees, shrubs, grasses, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
| 2. | Does the plant cover appear healthy?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Permeable Pavement (types could be permeable asphalt, concrete, or pavers)*** | **YES** | **NO** | **N/A** |
| 1. | Are structural problems evident?  | [ ]  | [ ]  | [ ]  |
| 2. | Is backup drainage present (such as an unpaved aggregate edge or an inlet with WQ device)?  | [ ]  | [ ]  | [ ]  |

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| **Vegetated Swale Inspection Checklist** |
| ***Swale Vegetation (trees, shrubs, grasses, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
| 2. | Does the plant cover appear healthy?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Swale Structure*** | **YES** | **NO** | **N/A** |
| 1. | Is erosion occurring?  | [ ]  | [ ]  | [ ]  |
| 2. | Is there damage to the bank structure such as slumping or evidence of bank failure?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Swale Flow*** | **YES** | **NO** | **N/A** |
| 1. | Is trash blocking/clogging either the inlet or outlet structure?  | [ ]  | [ ]  | [ ]  |
| 2. | Is sediment deposition occurring?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Basin Water Quality*** | **YES** | **NO** | **N/A** |
| 1. | Is there standing water more than 72 hours after a rain event?  | [ ]  | [ ]  | [ ]  |
| 2. | Is algae, evidence of pollution (sheen, etc.), or evidence of mosquito larvae present?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Turf Reinforcement Matting (TRM)*** | **YES** | **NO** | **N/A** |
| 1. | Has TRM or another liner been installed?  | [ ]  | [ ]  | [ ]  |
| 2. | Is the TRM or liner anchored?  | [ ]  | [ ]  | [ ]  |
| 3. | Is the TRM or liner making good contact with soil surface?  | [ ]  | [ ]  | [ ]  |
| 4. | Are there signs of tenting?  | [ ]  | [ ]  | [ ]  |
| 5. | Are there signs of erosion under the matting?  | [ ]  | [ ]  | [ ]  |

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| **Vegetated Filter Strip Inspection Checklist** |
| ***Filter Strip Inflow*** | **YES** | **NO** | **N/A** |
| 1. | Is the intended runoff able to enter the filter strip?  | [ ]  | [ ]  | [ ]  |
| 2. | Is erosion occurring at the inlet?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Filter Strip Vegetation:***such as trees, shrubs, grasses, etc. | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Filter Strip Structure*** | **YES** | **NO** | **N/A** |
| 1. | Is erosion occurring?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Filter Strip Flow*** | **YES** | **NO** | **N/A** |
| 1. | Is there trash in swale or blocking either the inlet or outlet of filter strip?  | [ ]  | [ ]  | [ ]  |
| 2. | Is sediment deposition occurring?  | [ ]  | [ ]  | [ ]  |
| 3. | Is there sheet flow both to and from filter strip?  | [ ]  | [ ]  | [ ]  |

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| **Runoff Capture & Use Inspection Checklist** |
| ***Runoff Capture & Use*** | **YES** | **NO** | **N/A** |
| 1. | Is flow from the catchment area to the storage device unimpeded (sediment/debris)?  | [ ]  | [ ]  | [ ]  |
| 2. | Is the storage unit structurally sound?  | [ ]  | [ ]  | [ ]  |
| 3. | Is sediment or debris found in the storage area?  | [ ]  | [ ]  | [ ]  |
| 4. | Is storage unit clearly marked “Caution: Reclaimed Water. Do not drink” or similar?  | [ ]  | [ ]  | [ ]  |
| 5. | Are spray irrigation sprinkler heads and/or irrigation tubing operable?  | [ ]  | [ ]  | [ ]  |

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| **Constructed Wetland Inspection Checklist** |
| ***Inlet (inflow type could be sheet flow, closed pipe, rip rap apron, curb cut, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is inlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is inlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does inlet appear to have structural problems?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Inlet Pretreatment Area (forebay, vegetated or riprap channel, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is sediment buildup present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is pretreatment being bypassed?  | [ ]  | [ ]  | [ ]  |
| 3. | Is there sediment flow from pretreatment to SCM?  | [ ]  | [ ]  | [ ]  |
|  |
| **Outlet (outflow type could be riser, weir, emergency spillway, underdrain, etc.)** | **YES** | **NO** | **N/A** |
| 1. | Is sediment buildup present?  | [ ]  | [ ]  | [ ]  |
| 2.  | Is outlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does outlet show structural problems or signs of leakage?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Wetland Area Vegetation (trees, shrubs, grasses, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
| 2. | Does the plant cover appear healthy?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Wetland Area: Structure*** | **YES** | **NO** | **N/A** |
| 1. | Is bank erosion occurring?  | [ ]  | [ ]  | [ ]  |
| 2. | Are side slopes stable?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Wetland Area: Water Quality*** | **YES** | **NO** | **N/A** |
| 1. | Is algae, evidence of pollution (sheen, etc.), or evidence of mosquito larvae present?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Wetland Area: Trash*** | **YES** | **NO** | **N/A** |
| 1. | Is trash blocking/clogging either the inlet or outlet structure?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Outfall Conditions (Outside SCM)*** | **YES** | **NO** | **N/A** |
| 1. | Is there erosion, sedimentation, or trash accumulation at the outfall discharge outside of the SCM?  | [ ]  | [ ]  | [ ]  |

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| **Vegetative Roof Inspection Checklist** |
| ***Vegetated Roof Inflow*** | **YES** | **NO** | **N/A** |
| 1. | Is inlet erosion present?  | [ ]  | [ ]  | [ ]  |
| 2. | Is inlet clogged or clogging?  | [ ]  | [ ]  | [ ]  |
| 3. | Does inlet appear to have structural problems?  | [ ]  | [ ]  | [ ]  |
|  |
| **Vegetated Roof Vegetation *(trees, shrubs, grasses, etc.)*** | **YES** | **NO** | **N/A** |
| 1. | Is there plant cover >70%?  | [ ]  | [ ]  | [ ]  |
| 2. | Does the plant cover appear healthy?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Vegetated Roof Structure*** | **YES** | **NO** | **N/A** |
| 1. | Is substrate erosion occurring?  | [ ]  | [ ]  | [ ]  |
|  |
| **Vegetated Roof Outlet (outlet type could be riser, edge drain, scupper, gutter, etc.)** | **YES** | **NO** | **N/A** |
| 1. | Is outlet erosion present?  | [ ]  | [ ]  | [ ]  |
|  |
| ***Vegetated Roof: Outfall Conditions (Outside SCM)*** | **YES** | **NO** | **N/A** |
| 1. | Is there erosion, sedimentation, or trash accumulation at the outfall discharge outside of the SCM?  | [ ]  | [ ]  | [ ]  |