

**Site 17/18 –Wet Swale**  
**Operation and Maintenance Checklist**  
**Roger Williams Park - Providence, RI**

**Date:**

**Time:**

**Inspector:**

Maintenance Item	Description	Maintenance Required? (Y/N)
<b>1. Drainage Structures (Flume Inlet/Sidewalk Trench Grate, Underdrains, Overflow Structure, Inline Drain, and Drainage Pipes) – Inspect annually and after major storm events (1-yr storm or greater)</b>		
Debris Cleanout	Remove all trash, debris, and sediment from all structures annually or when sediment buildup is half the depth from the invert to the bottom, as applicable.*	
Manholes/Diversion Structures/Outlets	Remove sediment from flume inlet regularly or when a build-up is noticed that impacts inflow. If inlet becomes blocked, the bioretention area will not receive the proper flow.	
Outlet Structures	Check for clogging and debris accumulation on outlet grates or in bottom of outlet structure. Repair as necessary.	
Emergency Spillways	Check for settling gullying or erosion. Ensure spillway is level. Repair as necessary if damaged or settling. Return to design grades.	
<b>2. Stone-lined Swale and Sediment Forebay– Inspect annually and after major storm events (1-yr storm or greater)</b>		
Debris Cleanout	Remove all trash and debris from the swale and forebay.	
Sediment/Organic Debris Removal	Sediment build-up shall be removed and properly disposed of when build-up is greater than or equal to 3 inches.*	
Side Slopes	Repair as necessary if signs of erosion gullies, animal burrowing, or slumping are observed.	
Vegetation Maintenance	Ill-established, dead or severely diseased plants will be removed and replaced annually. See Sheet LA-1 of Construction Plans for appropriate species.	

Maintenance Item	Description	Maintenance Required? (Y/N)
Boulder Checkdams	No evidence of flow going around structures. No evidence at downstream toe	

**3. Wet Swale – Inspect at least bi-annually and after major storm events the first year; then annually and after major storm events (1-yr storm or greater)**

Debris Cleanout	Remove all trash and debris from the surface of the bioretention system.	
Side Slopes	Repair as necessary if signs of erosion gullies, animal burrowing, or slumping are observed.	
Sediment/Organic Debris Removal	If standing water is observed in the bioretention area 48 hours after a storm event, the bottom 6 inches shall be rototilled or cultivated to breakup any hard-packed sediment, and replenished with mulch.*	
Vegetation Maintenance / Replacement	Vegetation growth is vigorous. Replace plants and thins vegetation as necessary.	

**4. Routine Grounds Maintenance – Inspect annually**

Debris Removal	Remove trash from perimeter areas.	
Pavement Sweeping	Sweep parking lot minimum once a year after spring thaw.	
Drainage Network	Ensure proper operation.	
Contributing drainage area	Contributing drainage area stabilized	

\*Sediment shall be disposed of offsite in a pre-approved location.

**Comments:**

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**Actions to be Taken:**

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