

## CHECKLIST FOR INSPECTION OF BIORETENTION SYSTEM/TREE FILTERS

Location: Wentworth – STG, 1340 W 71<sup>st</sup> St.

Inspector: Chris Bourbois

Date: July 27<sup>th</sup> 2023

Time: 12 PM

Site Conditions: Sunny, 88°

Days Since Last Rain Event: 1

Inspection Items	Satisfactory (S) or Unsatisfactory (U)	Comments/Corrective Action
<b>1. Initial Inspection After Planting</b>		Plants on site are healthy, including young oak. Topography is structured to encourage flow to center of site, but there is no evidence of erosion. Outlet drain is functional and fairly vegetated. Water flow under bridge and towards center of site and drain may be impacting vegetation establishment.
Plants are stable, roots not exposed	Ⓢ      U	
Surface is at design level, no evidence of preferential flow/shoving	Ⓢ      U	
Inlet and outlet/bypass are functional	Ⓢ      U	
<b>2. Debris Cleanup (1 time/year minimum, Spring/Fall)</b>		No dead vegetation on site or vegetative debris, but a small amount of litter. Tree is healthy and does not need pruning. Mowing may eventually be beneficial if species composition changes, but is likely not needed now.
Litter, leaves, and dead vegetation removed from the system	S      Ⓢ	
Prune/mow vegetation	Ⓢ      U	
<b>3. Standing Water (1 time/year and/or after large storms)</b>		No standing or pooled water one day after rain. Drain outlet is vegetated with no evidence of erosion.
No evidence of standing water after 24-48 hours since rainfall	Ⓢ      U	
<b>4. Vegetation Condition and Coverage</b>		Vegetation condition is good, with lots of pale purple coneflower, a young and healthy oak, and a dense collection of sedges, grasses, and shrubs in the center of the site. Anecdotally, there was a lot of insect activity during this site visit and evidence of caterpillar populations. There were no real invasive species concerns, although some areas are not vegetated (but still mulched).
Vegetation condition good with good coverage (typically >75%)	Ⓢ      U	
<b>5. Other Issues</b>		

Note any additional issues not previously covered	S      U	
Final Comments		
<p>This site is in good shape. The vegetation is dense and fairly free of invasives. The native species on site appear to be serving as a haven for pollinators. There is no evidence of erosion despite the site's topography. A young oak is a strong choice for the site and the tree appears healthy. The area surrounding the drain is fairly well vegetated and shows no signs of erosion. There are really only two areas of improvement here. The first is increasing the vegetative cover near the small bridge over the connecting portion of the two gardens. Either the shade from the bridge or the water flowing under the bridge towards the low point of the site has made vegetative establishment difficult. The area near the bridge is somewhat weedy, even if the weeds are minor field weeds rather than more serious invasives. Seeding with wet adapted species or planting sedge and grass plugs near the bridge would help. This would also help with the other area of improvement: increasing native diversity on site. Adding more native forbs, along with the sedges and grasses near the bridge, would create a more diverse and robust assemblage of species. Overall though, a densely vegetated and erosion and invasives free rain garden can only really be considered in solid shape.</p>		