

CHECKLIST FOR INSPECTION OF BIORETENTION SYSTEM/TREE FILTERS

Location: New Life Covenant Church, 7601 S Dobson Ave.

Inspector: Chris Bourbois

Date: July 27th 2023

Time: 3 PM

Site Conditions: Sunny, 89°

Days Since Last Rain Event: 1

Inspection Items	Satisfactory (S) or Unsatisfactory (U)	Comments/Corrective Action
1. Initial Inspection After Planting		There are no remaining installed plants here, but the ones present are stable. There appears to be some evidence of preferential flow, although no erosion yet. The drain outlet still seems functional, although it is close to being covered.
Plants are stable, roots not exposed	Ⓢ U	
Surface is at design level, no evidence of preferential flow/shoving	S Ⓤ	
Inlet and outlet/bypass are functional	Ⓢ U	
2. Debris Cleanup (1 time/year minimum, Spring/Fall)		There is not enough vegetation to mow at this point and no trees to prune. However, there is some litter and dead vegetation that needs cleaning. Especially the dead vegetation that is close to blocking the drain outlet.
Litter, leaves, and dead vegetation removed from the system	S Ⓤ	
Prune/mow vegetation	Ⓢ U	
3. Standing Water (1 time/year and/or after large storms)		No standing or pooled water one day after rain. However, something should be installed to slow down stormwater, especially with the topography of this specific site. Right now, stormwater appears to be bringing dead/mowed grass to the low point of the site, getting close to clogging the drain.
No evidence of standing water after 24-48 hours since rainfall	Ⓢ U	
4. Vegetation Condition and Coverage		Vegetation condition is very poor here, as the only remaining plants in the swale are turf grass, field weeds, and the beginnings of a reed canary grass infestation.
Vegetation condition good with good coverage (typically >75%)	S Ⓤ	
5. Other Issues		
Note any additional issues not previously covered	S U	
Final Comments		

This site appears to not be receiving maintenance. If the listing as an engineered rain garden is correct, then this site retains none of its original vegetation. Despite that, the site does not have a particularly bad invasives problem. While the reed canary grass on site will eventually dominate the site if left unchecked, the population is small enough now to be easily controlled with a few repeated hand pullings. Once the reed canary grass population is controlled, plug plantings of sedges and wetland grasses would be very beneficial. Given the dramatic swale present here, wet-adapted plants would be a must. Plugs would likely be the best choice here, as the impressive landscaping in the nearby parking lot means that effective maintenance is very possible at this site. Starting with larger grass and sedge plugs would give the swale a landmark and show it as an important landscaping feature, like the parking lot surroundings. Performing these corrective actions soon would be very beneficial, as the site is nearly a blank slate right now. Action within the next year could remove the reed canary grass, prevent the drain from being blocked, and improve the vegetative quality with relatively little time investment.