

CHECKLIST FOR INSPECTION OF BIORETENTION SYSTEM/TREE FILTERS

Location: Gunsaulus – STG, 4420 S Sacramento Ave.

Inspector: Chris Bourbois

Date: July 24th 2023

Time: 3:30 PM

Site Conditions: Sunny, 85°

Days Since Last Rain Event: 1

Inspection Items	Satisfactory (S) or Unsatisfactory (U)	Comments/Corrective Action
1. Initial Inspection After Planting		Plants on site are stable and healthy. Site has topography to encourage stormwater collection, but no evidence of erosion or preferential flow. No evidence of erosion or blockage at outlets or inlets.
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	
2. Debris Cleanup (1 time/year minimum, Spring/Fall)		One piece of litter noted on site, but no leaves or dead vegetation present. Vegetation is dense enough (especially with tall goldenrod) that mowing could be useful. No trees on site to prune.
Litter, leaves, and dead vegetation removed from the system	Ⓢ U	
Prune/mow vegetation	S Ⓢ	
3. Standing Water (1 time/year and/or after large storms)		No standing or pooled water one day after rain. Rock structure outside culvert under walkway appears effective, with no erosional issues noted.
No evidence of standing water after 24-48 hours since rainfall	Ⓢ U	
4. Vegetation Condition and Coverage		Vegetation condition is fairly good and coverage is likely right at or just above 75%. Vegetation includes a mix of butterfly milkweed, pale purple coneflower, and nodding onion. Clumped grasses are healthy and provide dense coverage. There are a few weedy invasives, like daisy fleabane, peppergrass, and wild carrot. However, the primary concern is a growing tall goldenrod population that could come to dominate the site.
Vegetation condition good with good coverage (typically >75%)	Ⓢ U	
5. Other Issues		
Note any additional issues not previously covered	S U	

Final Comments

This site is in fairly good shape. There is a nice mix of ornamentals, grasses, and native forbs. Vegetation coverage is strong, and all other areas are mulched. There is a rock structure dissipating the energy of stormwater coming through the on-site culvert. No erosion has been noted and the site is fairly clean, other than one piece of litter. However, there are some areas that could use improvement. An overseeding or further plug planting in the higher-lying areas would be good, although the mulch coverage is currently strong. The lower-lying areas would also benefit from more vegetation. In particular, wet-adapted native species would be effective. Although there is no erosion present, it seems that there has been some struggle getting plants established along the route stormwater likely travels through the culvert. Sedges and other wet-adapted native species would be effective here, although larger grass plugs like those already on-site may have more success withstanding the water. Finally, the tall goldenrod population on site may present a problem in the future if left to grow unchecked. Consistent mowing of these specific populations may help bring them under control. Although tall goldenrod is preferable to invasive populations, allowing it to become a monoculture would also be a problem. If the mowing can get the population under control, additional seeding or plug planting (perhaps of less aggressive goldenrod species like stiff or grass-leaved) may prevent it from returning.