











 **LEIS de WISPA**
L'Esplanade de la Ville de St-Jacques
1000, St-Jacques St
St-Jacques, QC H5M 1S5
Téléphone: 514 393-1111
Site Web: www.stjacques.qc.ca



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LID at WSSI Self-guided Tour

Rain Garden

The rain garden soil media is 3' deep and is comprised of approximately 43% sand, 5.5% organic leaf mulch, and 52% reusable topsoil. Beneath the soil media is a 1" layer of gravel, provides water storage capacity, and an underdrain allows water to flow from the rain garden to the underground gravel bed detention system.

WSSI's rain garden is planted with a variety of native species including perennials, shrubs, and trees, which were selected specifically because they can withstand both dry conditions and periods of inundation. They provide shade, wildlife habitat, and visual appeal, and their roots create macro-pores in the soil, which will increase the rain garden's permeability over time.

Rain Garden Design

- 1,536 s.f. ponding area with 11,600 s.f. buffer
- Collects water from impervious parking surfaces and cistern overflow
- Turf buffer helps filter particulate matter

Stormwater Benefits

- Increases the time of concentration (the time it takes for precipitation to reach the stream)
- Adsorption, evapotranspiration, and infiltration reduce runoff volume and nutrient load

Maintenance

- Weeding and upkeep is done on an as-needed basis
- Mulch is replaced annually