

SPECIFICATIONS ^{*}

A. GENERAL

- i) Upland and flood fringe plantings are generally stable and should not need much maintenance or re-establishment. Shoreline fringe areas are harder to establish because of frequent wetting and drying. It is expected that this vegetation might require some re-establishment during the Contractor's three-year maintenance period. Therefore, the Contractor should include a contingency for the re-establishment of aquatic plantings and some shoreline fringe plantings during the maintenance period.

Planting methods can be separated into three main categories, based on

- ii) three principal habitat zones in the pond system: (1) uplands and flood fringe, (2) shoreline fringe, and (3) shallow and deep water.

B. UPLAND / FLOOD FRINGE

- i) Planting shall include ground cover (grasses and herbs) and woody shrubs and trees.
- ii) If possible, planting shall be done in the spring, after water levels have stabilized.
- iii) **Ground cover** shall be installed either by hydroseeding or by using a custom seed mix in a nutrient-rich medium impregnated in a geojute, biodegradable blanket.
- iv) **Shrubs and trees** shall be planted manually, as per the applicable details. If geojute is used, openings in the material shall be made for each plant.

* These specifications are an adaptation of recommendations found in *Stormwater Management Planning and Design Manual, MOE, 2003*

C. SHORELINE FRINGE

- i) Shoreline fringe plantings shall be carried out in mid-May to early June, after water levels have stabilized. Geojute mat shall be used for seed mixture protection (and the protection of a soil nutrient medium, if required) in this zone of water level fluctuation. Shrubs and trees shall be planted through openings cut in the mat.

D. SHALLOW WATER (<0.5m) & DEEP WATER (>0.5m)

- i) *Shallow water* (<0.5m) shall be planted with emergent plants where the water is less than 0.3m deep, and with a mix of emergent and submergent vegetation in depths between 0.3m and 0.5m. The Contractor should note that the establishment of plantings in this zone will likely require special work and monitoring, both in the short and long term. *Deep water* (>0.5m) shall be planted solely with submergent vegetation.
- ii) **Emergent vegetation** shall be planted by hand. Plants shall consist of young shoots (sprigs and/or plugs), and shall be at least 10cm tall. Planting shall be done in late May to early June.
- iii) **Submerged, rooted plants** (including pondweeds) shall, if planted in late spring to early summer, be planted as mature vegetation. Plantings in early spring (or fall) shall be vegetative propagules (such as turions or rhizome plugs), which can germinate in the spring or overwinter and begin growing the following spring.
- iv) **Water lilies** shall be planted either directly into the substrate or pre-planted in biodegradable pots and then installed in the substrate.
- v) **Coontail** is a floating macrophyte that can be put in the pond at any time in the growing season.

E. WARRANTY

- i) Refer to Standard No. 705 and 706 for Warranty Requirements

TOWN OF CALEDON				APR'D: C.C.	DATE: JUNE 08
STORMWATER MANAGEMENT FACILITY PLANTING SPECIFICATIONS STANDARD NOTES				DRAWN: abal	SCALE: NTS
				STANDARD No. 707	
NO.	REVISION	APR'D	DATE		
2	STANDARD No.718 NOW 707		JAN 18		
1	STANDARD No. 1177.01 NOW 718		JUNE 08		