

Table 1. Description of the five tree pit treatments installed. Pit dimension depths are relative to the existing surface (i.e., the invert of the kerb). In all instances, systems were built, then a 350 mm diameter x 250 mm deep hole was excavated to plant the tree. No systems were lined and only the Drained treatment was connected via a raised outlet to the stormwater drainage network.

	Control	Soil	Sand	Drained	Adjacent
Description	Standard tree planting method with tree planted into native soil at footpath surface level. Tree receives no runoff	Kerb cut directs stormwater to tree which is planted into native soil	Kerb cut directs runoff to tree which is planted in sandy substrate	Kerb cut directs runoff to tree which is planted in sandy substrate with underdrain.	Kerb cut directs runoff to new pit containing sandy substrate. Tree planted as per Control directly adjacent to new pit.
Treatment dimensions (m)	Width: 0.6 Length: 1.2 Depth: -	Width: 0.6 Length: 1.2 Depth: -	Width: 0.6 Length: 1.2 Depth: 0.65	Width: 0.6 Length: 1.2 Depth: 0.65	Width: 0.6 Length: 2.4 Depth: 0.65 (pit only)
Inlet	None	1.2 m kerb cut	1.2 m kerb cut	1.2 m kerb cut	1.2 m kerb cut in front of pit only
Soil surface level	Top of kerb	100 mm below invert of kerb	100 mm below invert of kerb	100 mm below invert of kerb	Pit surface 100 mm below invert of kerb
Extended detention depth (mm)	None	100	100	100	100
Substrate tree planted into (mm)	Clay	Clay	Sandy loam: 300	Sandy loam: 300	Clay
Drainage layers (mm)	None	None	Coarse sand: 25 Fine gravel: 75	Coarse sand: 25 Fine gravel: 75	Coarse sand: 25 Fine gravel: 75
Underdrain outlet	None	None	None	50 mm perforated PVC outlet to stormwater drain at 0.4 m depth	None
Substrate adjacent to tree	Clay	Clay	Clay	Clay	Sandy loam on one side; clay on remaining sides