

# Regional Stormwater Technical Design Guidelines (Mamre Road Precinct)

Riparian Corridor Planting Palette

DRAFT

29th November, 2022 (V1)

- Notes:
- 1. At least 75% of the species listed below must be used.
  - 2. No more than 20% of any individual species is to be used with each planting area.
  - 3. Plants are to be mixed to ensure all species are distributed throughout the planting area, with species randomly grouped to best match localised ecological conditions.
  - 4. Final selection of plant species to be approved by Sydney Water.

Botanical Name	Common Name	Plants per m <sup>2</sup>	% of species per m <sup>2</sup>	CPW Species	RFEF Species	Recommended for use within Subzone [as noted within Avisure report]				Tolerance to Saline Soils	Available at Nurseries [Nov 2022]	Comments
AQUATIC (CONTINUOUSLY SUBMERGED)		4				A1 - 3km subzone	A2 - 3km subzone	B1 - 8km subzone	B2 - 8km subzone			
<i>Eleocharis sphacelata</i>	Tall Spike-rush		20%	✘	✘			Y		✓	Y	Aquatic planting only to be installed in limited areas (deep pools with >200mm permanent water depth) along riparian corridor only.
<i>Lepironia articulata</i>	Lepironia		20%	✘	✘			Y		✓	Y	
<i>Myriophyllum simulans</i>	Amphibious Water-milfoil		10%	✘	✘			Y		✓	Y	
<i>Philydrum lanuginosum</i>	Woolly Waterlily		10%	✘	✘			Y		✓	Y	
<i>Schoenoplectus validus</i>	River Club-rush		20%	✘	✘			Y		✓	Y	
<i>Triglochin microtuberosa</i>	Water Ribbons		20%	✘	✘			Y		✓	N	
Subtotal Waterway Continously Submerged			100%									
LOWER BANK (REGULARLY SUBMERGED)		4										
<i>Carex appressa</i>	Tall Sedge		20%	✘	✘			Y		✓	Y	
<i>Dianella longifolia</i>	Smooth Flax Lily		20%	✓	✘			Y		✓	Y	
<i>Ficinia nodosa</i>	Knobby Club Rush		20%	✘	✘			Y		✓	Y	
<i>Juncus usitatus</i>	Common Rush		20%	✓	✘			Y		✓	Y	
<i>Lomandra filiformis</i>	Wattle Mat-rush		20%	✓	✓			Y		✓	Y	
Subtotal Waterway Regularly Submerged			100%									
UPPER BANK (OCCASIONALLY SUBMERGED)		4										
Note: refer "Riparian Edge Planting" list for trees and shrubs to be planted only in top portion of upper bank planting areas.												
<i>Aristida ramosa</i>	Purple Wiregrass			✓	✘			N		✘	N	Subject to monitering and/or maintenance plan
<i>Chloris truncata</i>	Windmill Grass			✓	✘			N		✓	N	Subject to monitering and/or maintenance plan
<i>Cymbopogon refractus</i>	Barbed Wiregrass			✘	✓			N		✘	N	Subject to monitering and/or maintenance plan
<i>Dianella longifolia</i>	Smooth Flax Lily			✓	✘			N		✓	Y	Subject to monitering and/or maintenance plan
<i>Dichelachne micrantha</i>	Short-hair Plume Grass			✓	✓			N		✘	Y	Vertical growing habit - to be planted to edges of maintenance tracks. Subject to monitoring and/or maintenance plan
<i>Dichondra repens</i>	Kidney Weed			✓	✓					✘	Y	
<i>Entolasia marginata</i>	Boarded Panic			✓	✓			N		✘	N	
<i>Imperata cylindrica</i>	Bladey Grass			✘	✓			Y		✘	Y	Vertical growing habit - to be planted to edges of maintenance tracks. Subject to monitoring and/or maintenance plan
<i>Lomandra filiformis</i>	Wattle Mat-rush			✓	✓			Y		✓	Y	Subject to monitoring and/or maintenance plan
<i>Microlaena stipoides var stipoides</i>	Weeping Meadow Grass			✓	✓			N		✘	Y	Subject to monitoring and/or maintenance plan
<i>Poa labillardieri</i>	Tussock Grass			✓	✘			Y		✓	Y	

# Regional Stormwater Technical Design Guidelines (Mamre Road Precinct)

## Riparian Edge Planting Palette (top of upper bank planting areas and above top of bank)

29th November, 2022 (V1)

- Notes:
- 1. At least 75% of the species listed below must be used.
  - 2. No more than 5% of any individual species is to be used within each planting area.
  - 3. Plants are to be mixed to ensure all species are distributed throughout the planting area, with species randomly grouped to best match localised ecological conditions.
  - 4. Final selection of plant species to be approved by Sydney Water.

Botanical Name		Common Name	Plants per m <sup>2</sup>	CPW Species	RFEF Species	Recommended for use within Subzone [as noted within Avisure report]				Tolerance to Saline Soils	Available at Nurseries [Nov 2022]	Comments
TREES						A1 - 3km subzone	A2 - 3km subzone	B1 - 8km subzone	B2 - 8km subzone			
Notes: 1. Trees to be planted only in top portion of upper bank planting areas and riparian edge planting areas. 2. Trees to be planted in groupings of 3-6 mixed tree species, with 10-20m between groupings. 3. Trees to be planted with trunk centres not closer than 4m apart.												
Acacia implexa		Hickory Wattle		✓	✗			N		✓	Y	Short-lived tree. May be used by avifauna for perching or feeding (on flowers/seeds). Monitoring required
Acacia parramattensis		Sydney Green Wattle		✓	✓			N		✓	Y	Short-lived tree. May be used by avifauna for perching or feeding (on flowers/seeds). Monitoring required
Angophora floribunda		Rough-barked Apple		✗	✓			N		✗	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Casuarina glauca		Swamp Oak		✓	✗			Y		✓	Y	May be used by avifauna for feeding (on flowers/seeds). Monitoring required
Corymbia maculata		Spotted Gum		✓	✗			N		✓	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Eucalyptus amplifolia		Cabbage Gum		✗	✓			N		✗	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Eucalyptus crebra		Narrow-Leaved Ironbark		✓	✗			N		✗	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Eucalyptus elata		River White Gum		✗	✓			N		✓	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Eucalyptus eugenioides		White Stringybark		✓	✗			N		✗	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Eucalyptus fibrosa		Red Ironbark		✓	✗			N		✗	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Eucalyptus moluccana		Grey Box		✓	✓			N		✓	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Eucalyptus tereticornis		Forest Redgum		✓	✓			N		✓	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Melaleuca linariifolia		Snow in Summer		✗	✓			N		✓	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Melaleuca styphelioides		Prickly-Leaved Paperbark		✗	✓			N		✓	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
Melia azederach		White Cedar		✗	✓			Y		✓	Y	May be used by avifauna for feeding (on flowers/seeds). Monitoring required
Ozothamnus diosmifolius		Rice Flower		✗	✓			N		✗	Y	
Tristaniopsis laurina		Water Gum		✗	✓			Y		✓	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
SHRUBS			(1/50m <sup>2</sup> )									
Acacia falcata		Sickle Wattle		✓	✗			N		✓	Y	May be used by avifauna for perching or feeding (on flowers/seeds). Monitoring required
Acmena smithii		Lilly Pilly		✗	✓			N		✗	Y	May be used by avifauna for feeding (on flowers/fruit). Monitoring required
Breynia oblingifolia		Coffee Bush		✗	✓			N		✗	Y	May be used by avifauna for feeding (on flowers/fruit). Monitoring required
Bursaria spinosa		Blackthorn		✓	✓			Y		✗	Y	May be used by avifauna for feeding (on flowers). Monitoring required
Daviesia ulicifolia		Gorse Bitter Pea		✓	✗			Y		✗	N	Insect attractant. May be used by avifauna for feeding (on flowers). Monitoring required
Dillwynia sieberi		Prickly-Parrot Pea		✓	✗			Y		✗	N	Insect attractant. May be used by avifauna for feeding (on flowers). Monitoring required
Indigofera australis		Australian Indigo		✓	✗			Y		✓	Y	Insect attractant. May be used by avifauna for feeding (on flowers). Monitoring required
Melaleuca decora		White Feather Honey Myrtle		✗	✓			N		✗	Y	Species from Myrtaceae family generally attractive to birds and flying-foxes. Monitoring required
GRASSES			4									
Aristida ramosa		Purple Wiregrass		✓	✗			N		✗	N	Subject to monitoring and/or maintenance plan
Aristida vagans		Threeawn Speargrass		✓	✗			N		✗	N	
Arthropodium milleflorum		Vanilla Lily		✓	✗			N		✗	N	
Austrostipa ramosissima		Stout Bamboo Grass		✗	✓			N		✓	N	
Chloris truncata		Windmill Grass		✓	✗			N		✓	N	Subject to monitoring and/or maintenance plan

<i>Chloris ventricosa</i>	Plump Windmill Grass	✓	✗			N		✓	N	
<i>Cymbopogon refractus</i>	Barbed Wiregrass	✗	✓			N		✗	N	Subject to monitoring and/or maintenance plan
<i>Dianella longifolia</i>	Smooth Flax Lily	✓	✗			N		✓	Y	Subject to monitoring and/or maintenance plan
<i>Dichelachne micrantha</i>	Short-hair Plume Grass	✓	✓			N		✗	Y	Vertical growing habit - to be planted to edges of maintenance tracks. Subject to monitoring and/or maintenance plan
<i>Echinopogon ovatus</i>	Forest Hedgehog Grass	✓	✓			N		✗	N	
<i>Entolasia marginata</i>	Boarded Panic	✓	✓			N		✗	N	
<i>Imperata cylindrica</i>	Bladey Grass	✗	✓			Y		✗	Y	Vertical growing habit - to be planted to edges of maintenance tracks. Subject to monitoring and/or maintenance plan
<i>Lepidosperma laterale</i>	Variable Sword Sedge	✓	✗			N		✗	N	
<i>Lomandra filiformis</i>	Wattle Mat-rush	✓	✓			Y		✓	Y	Subject to monitoring and/or maintenance plan
<i>Microlaena stipoides</i> var <i>stipoides</i>	Weeping Meadow Grass	✓	✓			N		✗	Y	Subject to monitoring and/or maintenance plan
<i>Panicum simile</i>	Two Colour Panic Grass	✓	✗			N		✗	N	
<i>Paspalidium distans</i>	Shot Grass	✗	✓			N		✗	N	
<i>Poa labillardieri</i>	Tussock Grass	✓	✗			Y		✓	Y	
<i>Themeda australis</i>	Kangaroo Grass	✓	✓			Y		✓	Y	Subject to monitoring and/or maintenance plan
GROUNDCOVERS		4								
<i>Brunoniella australis</i>	Blue Trumpet	✓	✗					?	N	
<i>Centella asiatica</i>	Centella	✗	✓					✓	N	
<i>Cheilanthes sieberi</i>	Mulga Fern	✓	✓					?	N	
<i>Clematis glycinoides</i> var. <i>Glycinoides</i>	Guwalyari	✗	✓					?	N	
<i>Commelina cyanea</i>	Scurvy Weed	✓	✓					✓	Y	
<i>Desmodium varians</i>	Slender Tick-trefoil	✗	✓					?	N	
<i>Dichondra repens</i>	Kidney Weed	✓	✓					✗	Y	
<i>Einadia hastata</i>	Berry Saltbush	✗	✓					✓	Y	
<i>Einadia trigonos</i> subsp. <i>Trigonos</i>	Fishweed	✗	✓					✓	N	
<i>Eremophila debilis</i>	Winter Apple	✓	✗					?	N	
<i>Euchiton sphaericus</i>	Cudweed	✗	✓					?	N	
<i>Geranium solanderi</i>	Native Geranium	✗	✓					?	Y	
<i>Glycine clandestine</i>	Twining Glycine	✓	✓					✓	N	
<i>Glycine tabacina</i>	Love Creeper	✓	✓					?	N	
<i>Goodenia hederacea</i>	Forest Goodenia	✗	✓					✓	Y	
<i>Hardenbergia violacea</i>	Purple Coral Pea	✓	✓					✗	Y	
<i>Hibbertia diffusa</i>	Wedge Guinea Flower	✓	✗					?	N	
<i>Opismenus aemulus</i>	Creeping Beard Grass	✗	✓					?	N	Subject to monitoring and/or maintenance plan
<i>Oxalis perennans</i>	Grassland Wood-Sorrel	✓	✓					✓	N	
<i>Pratia purpruascens</i>	Whiteroot	✓	✓					✓	Y	
<i>Solanum prinophyllum</i>	Forest Nightshade	✗	✓					?	N	
<i>Veronica cineria</i>	Speedwell	✓	✓					?	Y	
<i>Viola hederacea</i>	Native Violet	✓	✓					✓	Y	
<i>Wahlenbergia gracilis</i>	Native Bluebell	✓	✓					?	Y	

# Regional Stormwater Technical Design Guidelines (Mamre Road Precinct)

## Wetland Planting Palette

29th November, 2022 (V1)

Notes:

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2. No more than 20% of any individual species is to be used with each planting area.
3. Plants are to be mixed to ensure all species are distributed throughout the planting area, with species randomly grouped to best match localised ecological conditions.
4. Final selection of plant species to be approved by Sydney Water.

Botanical Name	Common Name	Plants per m <sup>2</sup>	% of species per m <sup>2</sup>	CPW Species	RFEF Species	Recommended for use within Subzone [as noted within Avisure report]				Tolerance to Saline Soils	Available at Nurseries [Nov 2022]	Comments
EPHEMERAL (NTWL to 0.30m above)		6				A1 - 3km subzone	A2 - 3km subzone	B1 - 8km subzone	B2 - 8km subzone			
<i>Carex appressa</i>	Tall Sedge		20%	✗	✗			Y		✓	Y	
<i>Dianella longifolia</i>	Smooth Flax Lily		20%	✓	✗			Y		✓	Y	
<i>Ficinia nodosa</i>	Knobby Club Rush		20%	✗	✗			Y		✓	Y	
<i>Juncus usitatus</i>	Common Rush		20%	✓	✗			Y		✓	Y	
<i>Lomandra filiformis</i>	Wattle Mat-rush		20%	✓	✓			Y		✓	Y	
Subtotal Ephemeral			100%									
SHALLOW MARSH (-0.20m to NTWL)		6										
<i>Baumea rubiginosa</i>	Twig Rush		20%	✗	✗			Y		✓	Y	
<i>Bolboschoenus caldwellii</i>	Sea Club-rush		20%	✗	✗			Y		✓	Y	
<i>Eleocharis cylindrostachys</i>	Common Spike-sedge		20%	✓	✗			Y		✓	N	
<i>Lepironia articulata</i>	Lepironia		20%	✗	✗			Y		✓	Y	
<i>Schoenoplectus validus</i>	River Club-rush		20%	✗	✗			Y		✓	Y	
Subtotal Shallow Marsh			100%									
DEEP MARSH (-0.20 to -0.40m below NTWL)		6										
<i>Eleocharis sphacelata</i>	Tall Spike-rush		20%	✗	✗			Y		✓	Y	
<i>Lepironia articulata</i>	Lepironia		20%	✗	✗			Y		✓	Y	
<i>Myriophyllum simulans</i>	Amphibious Water-milfoil		10%	✗	✗			Y		✓	Y	
<i>Philydrum lanuginosum</i>	Woolly Waterlily		10%	✗	✗			Y		✓	Y	
<i>Schoenoplectus validus</i>	River Club-rush		20%	✗	✗			Y		✓	Y	
<i>Triglochin microtuberosa</i>	Water Ribbons		20%	✗	✗			Y		✓	N	
Subtotal Deep Marsh			100%									