

# Hastings River Estuary Riparian Revegetation Guide

A guide to assist landowners to select the right native plant species for estuary bank restoration works in the Hastings River estuary



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**Native riparian vegetation plays a vital role in riverbank stability and contributes to overall estuary health.**

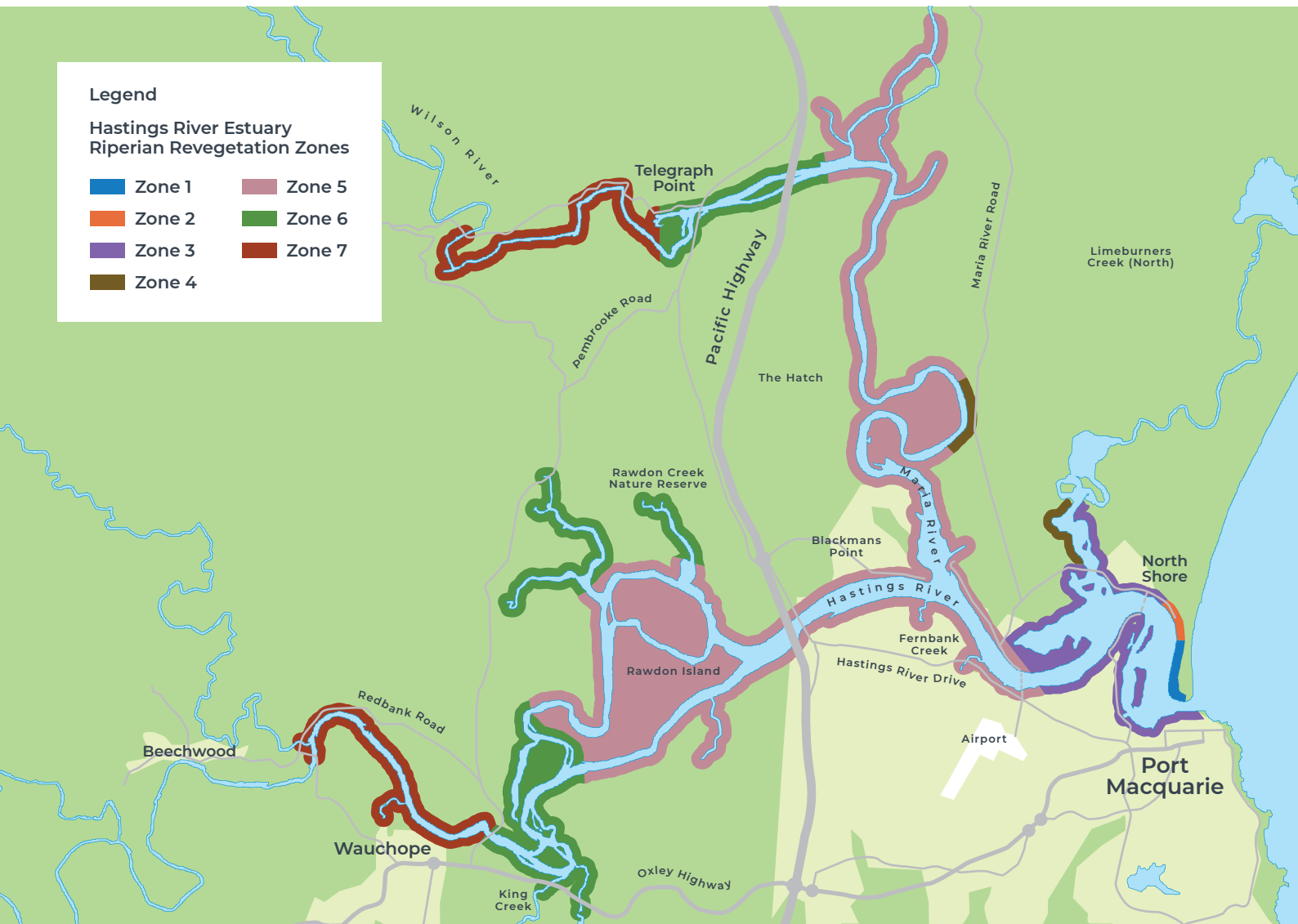
Seagrass, fish stocks, bird life and other aquatic species are all reliant on native riparian vegetation.

Riparian vegetation also improves water quality and contributes to the beautiful scenic values of the estuary.

Whilst erosion in the Hastings River estuary is a natural process, the rate of erosion has been accelerated over recent decades. Healthy riparian vegetation improves the estuaries resilience to erosion processes. In this way

restoring riparian vegetation wherever possible helps protect valuable productive lands and estuary ecosystems.

The riparian vegetation in the Hastings River estuary varies along its length. Factors such as soil type and the influence of tides dictate which vegetation communities occur where. The map below defines seven broad vegetation zones characterised by specific grouping of plant species. The following pages list native plant species suitable for planting in riparian revegetation projects in the Hastings River estuary including where to plant them on the bank.



**Acknowledgements**

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### Species by location on river bank

Select from the short-list of species for the estuary zone that the site is in from the table below.



	Estuary	Mid to high tide	Lower bank	Mid and upper bank
<b>Zone 1</b> Coastal barrier		This reach has rock revetment covering the lower to mid bank for its entire length so focus should be on planting the mid and upper banks		<b>Coastal wattle</b> <i>Acacia sophorae</i> <b>Beach allectryon</b> <i>Alectryon coriaceus</i> <b>Coastal banksia</b> <i>Banksia integrifolia</i> <b>Horsetail sheoak</b> <i>Casuarina equisetifolia</i> <b>Tuckeroo</b> <i>Cupaniopsis anacardioides</i>
<b>Zone 2</b> Littoral rainforest	<b>River mangrove</b> <i>Aegiceras corniculatum</i> <b>Grey mangrove</b> <i>Avicennia marina</i>	<b>Jointed twig sedge</b> <i>Baumea juncea</i> <b>Swamp Oak</b> <i>Casuarina glauca</i> <b>Swamp lily</b> <i>Crinum pedunculatum</i> <b>Sea Rush</b> <i>Juncus kraussii</i> <b>Marine couch</b> <i>Sporobolus virginicus</i>	<b>Maidens wattle</b> <i>Acacia maidenii</i> <b>Silver aspen</b> <i>Acronychia wilcoxiana</i> <b>Beach birds-eye</b> <i>Alectryon coriaceus</i> <b>Red ash</b> <i>Alphitonia excelsa</i> <b>Coastal banksia</b> <i>Banksia integrifolia</i> <b>Horsetail sheoak</b> <i>Casuarina equisetifolia</i> <b>Tuckeroo</b> <i>Cupaniopsis anacardioides</i> <b>Yellow tulipwood</b> <i>Drypetes deplanchei</i> <b>Smooth quandong</b> <i>Elaeocarpus obovatus</i> <b>Blueberry ash</b> <i>Elaeocarpus reticulatus</i> <b>Creek sandpaper fig</b> <i>Ficus coronata</i> <b>Small-leaved fig</b> <i>Ficus obliqua</i> <b>Rusty fig</b> <i>Ficus rubiginosa</i> <b>Foambark</b> <i>Jagera pseudorhus</i> <b>Gioua</b> <i>Gioua semiglauc</i>	<b>Flax lily</b> <i>Dianella caerulea</i> <b>Guinea flower</b> <i>Hibbertia scandens</i> <b>Coast hibiscus</b> <i>Hibiscus tilaceus</i> <b>Coast tea tree</b> <i>Leptospermum laevigatum</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>Cabbage fan palm</b> <i>Livistona australis</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>Yellow-flowered mat rush</b> <i>Lomandra spicata</i> <b>Brush box</b> <i>Lophostemon confertus</i> <b>Prickly paperbark</b> <i>Melaleuca nodosa</i> <b>Broad-leaved paperbark</b> <i>Melaleuca quinquenervia</i> <b>White cedar</b> <i>Melia azederach</i> <b>Pear-fruited tamarind</b> <i>Mischocarpus pyriformis</i> <b>Long-leaved olive</b> <i>Notelaea longifolia</i> <b>Brown pine</b> <i>Podocarpus elatus</i> <b>Celerywood</b> <i>Polyscias elegans</i> <b>Rough-fruited pittosporum</b> <i>Pittosporum revolutum</i> <b>Brush cherry</b> <i>Syzygium australe</i> <b>Blue lilly pilli</b> <i>Syzygium oleosum</i> <b>Lilly pilli</b> <i>Syzygium smithii</i>
<b>Zone 3</b> Marine tidal delta	<b>River mangrove</b> <i>Aegiceras corniculatum</i> <b>Grey mangrove</b> <i>Avicennia marina</i>	<b>Jointed twig sedge</b> <i>Baumea juncea</i> <b>Swamp Oak</b> <i>Casuarina glauca</i> <b>Swamp lily</b> <i>Crinum pedunculatum</i> <b>Tall spike rush</b> <i>Eleocharis sphacelata</i> <b>Sea Rush</b> <i>Juncus kraussii</i> <b>Glasswort</b> <i>Sarcocornia quinqueflora</i> <b>Club rush</b> <i>Schoenoplectus subulatus</i> <b>Marine couch</b> <i>Sporobolus virginicus</i> <b>Seablite</b> <i>Suaeda australis</i>	<b>Sydney golden wattle</b> <i>Acacia longifolia</i> <b>Wild quince</b> <i>Alectryon subcinereus</i> <b>White bottlebrush</b> <i>Callistemon salignus</i> <b>Swamp oak</b> <i>Casuarina glauca</i> <b>River lily</b> <i>Crinum pedunculatum</i> <b>Tuckeroo</b> <i>Cupaniopsis anacardioides</i> <b>Hard quandong</b> <i>Elaeocarpus obovatus</i> <b>Swamp mahogany</b> <i>Eucalyptus robusta</i> <b>Forest red gum</b> <i>Eucalyptus tereticornis</i> <b>Rusty-leaved fig</b> <i>Ficus rubiginosa</i>	<b>Deciduous fig</b> <i>Ficus superba</i> <b>Gioua</b> <i>Gioua semiglauc</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>Swamp paperbark</b> <i>Melaleuca ericifolia</i> <b>Narrow-leaved paperbark</b> <i>Melaleuca linariifolia</i> <b>Broad-leaved paperbark</b> <i>Melaleuca quinquenervia</i> <b>Prickly-leaved paperbark</b> <i>Melaleuca styphelioides</i> <b>Bleeding heart</b> <i>Omalanthus nutans</i> <b>Rough-fruited pittosporum</b> <i>Pittosporum revolutum</i> <b>Lilly pilli</b> <i>Syzygium smithii</i>

## Species by location on river bank


Select from the short-list of species for the estuary zone that the site is in from the table below.



	Estuary	Mid to high tide	Lower bank	Mid and upper bank	
<b>Zone 4</b> Old sand dunes		<b>River mangrove</b> <i>Aegiceras corniculatum</i> <b>Grey mangrove</b> <i>Avicennia marina</i> <b>Common reed</b> <i>Phragmites australe</i>	<b>Swamp Oak</b> <i>Casuarina glauca</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>Broad-leaved paperbark</b> <i>Melaleuca quinquenervia</i>	<b>Green wattle</b> <i>Acacia irrorata</i> <b>Black sheoak</b> <i>Allocasuarina littoralis</i> <b>Red ash</b> <i>Alphitonia excelsa</i> <b>Coastal banksia</b> <i>Banksia integrifolia</i> <b>Banksia</b> <i>Banksia oblongifolia</i> <b>White bottlebrush</b> <i>Callistemon salignus</i> <b>Pink bloodwood</b> <i>Corymbia intermedia</i> <b>Tuckeroo</b> <i>Cupaniopsis anacardioides</i> <b>Corkwood</b> <i>Duboisia myoporoides</i> <b>Blueberry ash</b> <i>Elaeocarpus reticulatus</i> <b>Tallowood</b> <i>Eucalyptus microcorys</i> <b>Blackbutt</b> <i>Eucalyptus pilularis</i>	<b>Red mahogany</b> <i>Eucalyptus resinifera</i> <b>Rough saw sedge</b> <i>Gahnia aspera</i> <b>Tea tree</b> <i>Leptospermum polygalifolium</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>Brush box</b> <i>Lophostemon confertus</i> <b>Prickly paperbark</b> <i>Melaleuca nodosa</i> <b>Broad-leaved paperbark</b> <i>Melaleuca quinquenervia</i> <b>Geebung</b> <i>Persoonia stradbrogensis</i> <b>Sweet pittosporum</b> <i>Pittosporum undulatum</i> <b>Rough-fruited pittosporum</b> <i>Pittosporum revolutum</i> <b>Bleeding heart</b> <i>Omalthus populifolius</i> <b>Turpentine</b> <i>Syncarpia glomulifera</i>
<b>Zone 5</b> Fluvial marine transition		<b>River mangrove</b> <i>Aegiceras corniculatum</i> <b>Grey mangrove</b> <i>Avicennia marina</i> <b>Common reed</b> <i>Phragmites australe</i>	<b>Swamp Oak</b> <i>Casuarina glauca</i> <b>Swamp lily</b> <i>Crinum pedunculatum</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>Broad-leaved paperbark</b> <i>Melaleuca quinquenervia</i>	<b>Blackwood</b> <i>Acacia melanoxylon</i> <b>Lilly Pilly</b> <i>Acmena smithii</i> <b>Cunjevoi</b> <i>Allocasia brisbanensis</i> <b>Red ash</b> <i>Alphitonia excelsa</i> <b>Swamp banksia</b> <i>Banksia robur</i> <b>Coffee bush</b> <i>Breynia oblongifolia</i> <b>White bottlebrush</b> <i>Callistemon salignus</i> <b>Tall sedge</b> <i>Carex appressa</i> <b>Swamp Oak</b> <i>Casuarina glauca</i> <b>Hairy clerodendrum</b> <i>Clerodendrum tomentosum</i> <b>Brush kurrajong</b> <i>Commersonia fraseri</i> <b>Palm lily</b> <i>Cordeline stricta</i> <b>Pink bloodwood</b> <i>Corymbia intermedia</i> <b>Tuckeroo</b> <i>Cupaniopsis anacardioides</i>	<b>Flax lily</b> <i>Dianella caerulea</i> <b>Forest red gum</b> <i>Eucalyptus tereticornis</i> <b>Small-fruited grey gum</b> <i>Eucalyptus propinqua</i> <b>Swamp mahogany</b> <i>Eucalyptus robusta</i> <b>Sandpaper fig</b> <i>Ficus coronata</i> <b>Rusty fig</b> <i>Ficus rubiginosa</i> <b>Cheese tree</b> <i>Glochidion ferdinandii</i> <b>Guioa</b> <i>Guioa semiglauc</i> <b>Guinea flower</b> <i>Hibertia scandens</i> <b>Swamp hibiscus</b> <i>Hibiscus diversifolius</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>Broad-leaved paperbark</b> <i>Melaleuca quinquenervia</i> <b>Prickly-leaved tea tree</b> <i>Melaleuca styphelioides</i>

## Species by location on river bank

Select from the short-list of species for the estuary zone that the site is in from the table below.



	Estuary	Mid to high tide	Lower bank	Mid bank	Upper bank
<b>Zone 6</b> Upper estuary		<b>River mangrove</b> <i>Aegiceras corniculatum</i> <b>Grey mangrove</b> <i>Avicennia marina</i> <b>Common reed</b> <i>Phragmites australis</i>	<b>Jointed twig rush</b> <i>Juncus usitatus</i> <b>Tall sedge</b> <i>Carex appressa</i> <b>Swamp sheoak</b> <i>Casuarina galuca</i> <b>Swamp lily</b> <i>Crinum pedunculatum</i> <b>Tall spike rush</b> <i>Eleocharis sphacelata</i> <b>Common rush</b> <i>Juncus usitatus</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>River mat rush</b> <i>Lomandra hystrix</i> <b>Common reed</b> <i>Phragmites australis</i> <b>Club rush</b> <i>Shoenoplectus validus</i> <b>Water gum</b> <i>Tristaniopsis laurina</i> <b>Weeping lilly pilly</b> <i>Waterhousea floribunda</i>	<b>Wild Quince</b> <i>Alectryon subcinereus</i> <b>Red ash</b> <i>Alphitonia excelsa</i> <b>Rough-barked apple</b> <i>Angophora floribunda</i> <b>White bottlebrush</b> <i>Callistemon salignus</i> <b>Swamp Oak</b> <i>Casuarina glauca</i> <b>River sheoak</b> <i>Casuarina cunninghamiana</i> <b>Brush kurrajong</b> <i>Commersonia fraseri</i> <b>Tuckeroo</b> <i>Cupaniopsis anacardioides</i> <b>Flax lily</b> <i>Dianella caerulea</i> <b>Guinea flower</b> <i>Hibbertia scandens</i> <b>Swamp hibiscus</b> <i>Hibiscus diversifolius</i> <b>Spiny-headed mat rush</b> <i>Lomandra longifolia</i> <b>Red kamala</b> <i>Mallotus philippensis</i> <b>Sweet pittosporum</b> <i>Pittosporum undulatum</i> <b>Rough-fruited pittosporum</b> <i>Pittosporum revolutum</i> <b>Whalebone tree</b> <i>Strebulus brunonianus</i>	<b>Sally wattle</b> <i>Acacia floribunda</i> <b>Maiden's wattle</b> <i>Acacia maidenii</i> <b>Black wattle</b> <i>Acacia melanoxylon</i> <b>Broad-leaved apple</b> <i>Angophora subvelutina</i> <b>River oak</b> <i>Casuarina cunninghamii</i> <b>Swamp oak</b> <i>Casuarina glauca</i> <b>Pink bloodwood</b> <i>Corymbia intermedia</i> <b>Flax lily</b> <i>Dianella caerulea</i> <b>White mahogany</b> <i>Eucalyptus acmeniodes</i> <b>Flooded gum</b> <i>Eucalyptus grandis</i> <b>Swamp mahogany</b> <i>Eucalyptus robusta</i> <b>Small-fruited grey gum</b> <i>Eucalyptus siderophloia</i> <b>Forest red gum</b> <i>Eucalyptus tereticornis</i> <b>Creek sandpaper fig</b> <i>Ficus coronata</i> <b>Cheese tree</b> <i>Glochidion ferdinandii</i> <b>Brush box</b> <i>Lophostemon confertus</i>
<b>Zone 7</b> Riverine		Tidal influence is negligible in this zone	<b>River sheoak</b> <i>Casuarina cunninghamiana</i> <b>Creek sandpaper fig</b> <i>Ficus coronata</i> <b>Tea tree</b> <i>Leptospermum brachyandrum</i> <b>River mat rush</b> <i>Lomandra hystrix</i> <b>Weeping lilly pilly</b> <i>Waterhousea floribunda</i>	<b>Sally wattle</b> <i>Acacia floribunda</i> <b>Black wattle</b> <i>Acacia melanoxylon</i> <b>Lilly Pilly</b> <i>Acmena smithii</i> <b>Red ash</b> <i>Alphitonia excelsa</i> <b>White bottlebrush</b> <i>Callistemon saligna</i> <b>Flooded gum</b> <i>Eucalyptus grandis</i> <b>Sydney blue gum</b> <i>Eucalyptus saligna</i> <b>Blue gum</b> <i>Eucalyptus tereticornis</i> <b>Creek sandpaper fig</b> <i>Ficus coronata</i> <b>Cheese tree</b> <i>Glochidion ferdandi</i> <b>Prickly-leaved tea tree</b> <i>Melaleuca styphelioides</i>	<b>River sheoak</b> <i>Casuarina cunninghamiana</i> <b>Koda</b> <i>Ehretia acuminata</i> <b>Flooded gum</b> <i>Eucalyptus grandis</i> <b>Tallowood</b> <i>Eucalyptus microcorys</i> <b>Guioa</b> <i>Guioa semiglauca</i> <b>Foam bark</b> <i>Jagera pseuorhus</i> <b>White cedar</b> <i>Melia azerdarach</i> <b>Pittosporum</b> <i>Pittosporum undulatum</i> <b>Watergum</b> <i>Tristaniopsis laurina</i>

Port Macquarie Landcare Nursery is able to provide many of the plants on these lists: [nursery@landcareportmac.com.au](mailto:nursery@landcareportmac.com.au)



## Port Macquarie Hastings Council

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