

**Foreshore Site** 

# Kooroora Bay Landcare



# **Project Partners:**

 Lake Macquarie Landcare Resource Centre (Lake Macquarie City Council)

Lake Macquarie

# Background

Kooroora Bay Landcare site lies in the Fennell Bay and Bolton Point suburbs, in the western division of Lake Macquarie.

### **Site Information**

Kooroora Bay Landcare site consists of two areas:

### The Creek

This area is centred around a tidal creek and part of the shore of Lake Macquarie beside houses at the Fennell Bay/Bolton Point suburban boundary. The plant community is an Estuarine Complex community made up of Grey Mangrove (Avicennia marina) and open scrub near the creek, backed by Swamp Oak (Casuarina glauca) Forest. There are elements of a remnant rainforest community surviving, with species like Port Jackson Fig (Ficus rubiginosa) and Hairy Clerodendron (Clerodendron tomentosum) in small numbers.

#### The Cliff

This area comprises a vegetated bank and plateau area between the foreshore and houses to the north. The Eucalypt canopy is mature although broken in places

### Lake Macquarie

Lake Macquarie City Council area is located on the NSW east coast. It contains mountains, forests, waterfalls, extensive beaches, and a large coastal estuarine lake with an area of approximately 110 square kilometres, and a catchment area of 605 square kilometres.

These areas support a wide range of habitats and uses, including nature conservation, recreation, residential and commercial development and rural activities. As a result, the natural environment has suffered a high degree of modification and degradation.

# **Aboriginal Heritage**

Lake Macquarie is rich in Aboriginal cultural heritage dating back tens of thousands of years. The people who lived around Lake Macquarie and Newcastle were known as the Awabakal which means "the people of the flat surface" presumably referring to the Lake and its flat surrounds.



Above: Site locality (Kooroora Bay Landcare shown in maroon)

due to view corridors being created. The plant understorey varies from almost complete in some places (still with weeds), to non-existent in other places that are mown non-native grass areas. Over most of the area, garden plantings or garden escapees exist, in some cases keeping out the original vegetation.



**Kooroora Bay Landcare Cliff Site** 

# Vegetation

Both areas of Kooroora Bay Landcare site are classified as Lake Macquarie Spotted Gum Forest by Bell and Driscoll's vegetation mapping. On-going surveys by the Landcare Group show that of the 110 plant species identified so far, 43 – approximately 40% - are introduced weeds.

### Native plants found at **The Creek** include:

Allocasuarina littoralis - Black She-oak

Allocasuarina verticillata - Drooping She-Oak

Archontophoenix cunninghamiana - Bangalow Palm

Avicennia marina - Grey Mangrove

Casuarina glauca - Swamp Oak

Cayratia clematidea - Slender Grape

Crinum pedunculatum - Swamp Lily

Dichondra repens - Kidney Weed

Einadia hastata - Berry Saltbush

Elaeocarpus reticulatus - Blueberry Ash

Eucalyptus punctata - Grey Gum

Ficus rubiginosa - Port Jackson Fig

Ficus coronata - Sandpaper Fig

Glochidion ferdinandi - Cheese Tree

Geranium species - Native Geranium

Isolepis nodosa - Club Rush

Juncus kraussii - Sea Rush

Livistona australis - Cabbage Tree Palm

Lomandra longifolia - Spiny-head Mat-rush

Mvrsine howittiana - Muttonwood

Myrsine variabilis - Brush Muttonwood

Pittosporum revolutum - Rough-fruit Pittosporum

Pomaderris intermedia - Tree Pomaderris

Pteridium esculentum - Bracken Fern

Sesuvium portulacastrum - Shore Purslane

Tetragonia tetragonoides - Warrigal Greens

Westringia fruticosa - Coastal Rosemary

### Native plants found at **The Cliff** include:

Corymbia maculata - Spotted Gum

Eucalyptus tereticornis – Forest Red Gum

Eucalyptus umbra – Broad-leaved White Mahogany

Ficus rubiginosa – Port Jackson Fig

Notelaea species - Mock Olive

Elaeocarpus obovatus - Hard Quandong

Myoporum acuminatum - Mangrove Boobialla

Myrsine variabilis - Brush Muttonwood

Pittosporum undulatum – Sweet Pittosporum

Pittosporum revolutum – Rough-fruit Pittosporum

Pultanea vilosa – Hairy Bush Pea

Dianella caerulea - Blue Flax Lily

Glycine species - Love Creeper

Cissus antarctica - Water Vine

Smilax australis – Lawyer Vine



Port Jackson Fig

# **Common Trees and Shrubs of Kooroora Bay**



Eucalyptus tereticornis - Forest Red Gum



Corymbia maculata - Spotted Gum



Eucalyptus punctata - Grey Gum



Eucalyptus umbra – Broad-leaved White Mahogany



Casuarina glauca - Swamp Oak



Pittosporum undulatum – Sweet Pittosporum

#### Weeds found in one or both areas

Asparagus Weed (Ground Asparagus Fern)

**Bromus Grass** 

**Buffalo Grass** 

Canna Lily

Cobblers Pegs

Cotoneaster

Crofton Weed

Fishbone Fern

Kikuyu Grass

Lantana

Lambs Tongue

Mickey Mouse Plant

Morning Glory

Monstera

Panic Veldt Grass

Purple Top

Pennywort

Small-leaf Privet

Trad (Wandering Jew)

Umbrella Tree

# **Common Weeds of Kooroora Bay**





Cotoneaster





Asparagus Weed

**Mickey Mouse Plant** 





**Cobblers Pegs** 

**Crofton Weed** 

### Fauna

Kooroora Bay Landcare site provides habitat for a range of native animals and surveys will be undertaken by the Landcare Group to document what is present. Mammals of interest include Brush-tail Possums and Sugar Gliders.

### Birds seen at the Landcare site include:

Australian Magpie *Gymnorhina tibicen*Australian Pelican *Pelecanus conspicillatus*Australian White Ibis *Threskiornis molucca*Australian Wood Duck *Chenonetta jubata*Black Cormorant *Phalacrocorax carbo*Black-faced Cuckoo-shrike *Coracina novaehollandiae* 

Blue-faced Honeyeater Entomyzon cyanotis

Common Myna Acridotheres tristis

Crested Pigeon Ocyphaps lophotes

Dollar Bird Eurystomus orientalis

Eastern Rosella Platycercus eximius

Eastern Whipbird Psophodes olivaceus

Galah Cacatua rosecapilla

Grey Butcherbird Cracticus torquatus

Koel Eudynamys scolopacea

Laughing Kookaburra Dacelo novaeguineae

Lewins Rail Lewinia pectoralis

Little Corella Cacatua sanguinea

Magpie Lark Grallina cyanoleuca

Mallard Anas platyrhynchos

Noisy Miner Manorhina melanocephala

Rainbow Lorikeet Trichoglossus moluccanus

Reef Heron Egretta sacra

Silver Gull Larus novaehollandiae

Spotted Dove Spilopelia chinensis

Spur-winged Plover Vanellus novaehollandiae

Sulphur-crested Cockatoo Cacatua galerita

Tawny Frogmouth Podargus strigoides

Welcome Swallow Hirundo neoxena

Willie Wagtail Rhipidura leucophrys



Sugar Glider
© The State of
Queensland
(Queensland Museum)
2010-2012



Eastern Rosella



Rainbow Lorikeet

# Landcare group

The Kooroora Bay Landcare Group formed in 2002. Work began around the Creek and later expanded to include the Cliff area.

### The Group aims to:

- rehabilitate degraded native plant communities
- increase biodiversity of native plants and animals
- increase the site's habitat value for native animals



Member Gurf Yeo removing Morning Glory

Massive infestations of Morning Glory vine and Asparagus Weed around the Creek have been successfully removed by members. A mix of native replacement plantings is now stabilising that area. So far, work on the Cliff area has removed a lot of Asparagus Weed.

Now the Group will broaden its focus to include more biodiversity and habitat improvement work.

The Group is increasing its membership and meets regularly on the first and third Monday of each month, usually from 8:30-11:30am. New members and supporters are welcome and are asked to contact Landcare Team Leader Tony on 040 889 1411 for further information.



Lake Macquarie Landcare Green Team removing Asparagus Weed



Landcarers Frances Howley and Sue Oakey re-establishing native mat-rush plants

### Landcare in Lake Macquarie

Lake Macquarie Landcare is a partnership between Lake Macquarie Landcare Network Incorporated (LMLN inc), thousands of dedicated and committed community volunteers, and the Lake Macquarie City Council (LMCC) which provides project support through the Landcare Resource Centre (LRC).

If you would like to get involved in Landcare in Lake Macquarie or would like more information please contact the LRC on 4921 0392.

#### References and Further Information

Australian National Botanic Garden - www.anbg.com.au

Bell and Driscoll, 2014, Vegetation mapping of Lake Macquarie LGA:

Stages 1-5, available at www.lakemac.com.au

Buchanan, R, 2009, Restoring Natural Areas in Australia

LMCC, 2004, *Lake Macquarie Coastal Planting Guide*, available at www.lakemac.com.au

Weeds Australia - www.weeds.org.au

The Lake Macquarie Landcare website <a href="www.lakemacquarielandcare.org">www.lakemacquarielandcare.org</a> provides links to newsletters, environmental programs, grants, Landcare, weeds and trees.

If you wish to know more about this and other projects in Lake Macquarie please contact the Landcare Resource Centre.

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