

<b>DATE</b> 17/08/2010	<b>SCALE</b> 1:70,000		<b>PAGE SIZE</b> A3	<b>COORDINATE SYSTEM</b> MGA Z56	<b>FIG NO.</b> 8.12	<b>FIGURE TITLE</b> Overview of Site Specific Maps	
<b>PROJECT NO.</b> 3001765	<b>PROJECT TITLE</b> Georges River Estuary Process Study		<b>CREATED BY</b> C. Thompson	<b>LOCATION</b> I:\Projects\3001765 - Georges River Estuary Process Study\009 DATA\GIS\ArcView Files\Working files			<small>Data Source - Vegetation: The Native Vegetation of the Sydney Metropolitan Catchment Management Authority Area (Draft) (2009). NSW Department of Environment, Climate Change and Water, Hurstville, NSW Australia.</small>

- LEGEND**
- Weed Hotspot Priority Areas
  - Study Area
  - LGAs
  - Riparian Vegetation & EEC (Moderate Priority)
  - Riparian Vegetation & EEC (High Priority)
  - Seagrass (High Priority)
  - Saltmarsh (High Priority)
  - Estuarine Reedland (Moderate Priority)
  - Mangrove (Moderate Priority)
  - Swamp Oak (Moderate Priority)
  - Mooring Areas
  - River Area
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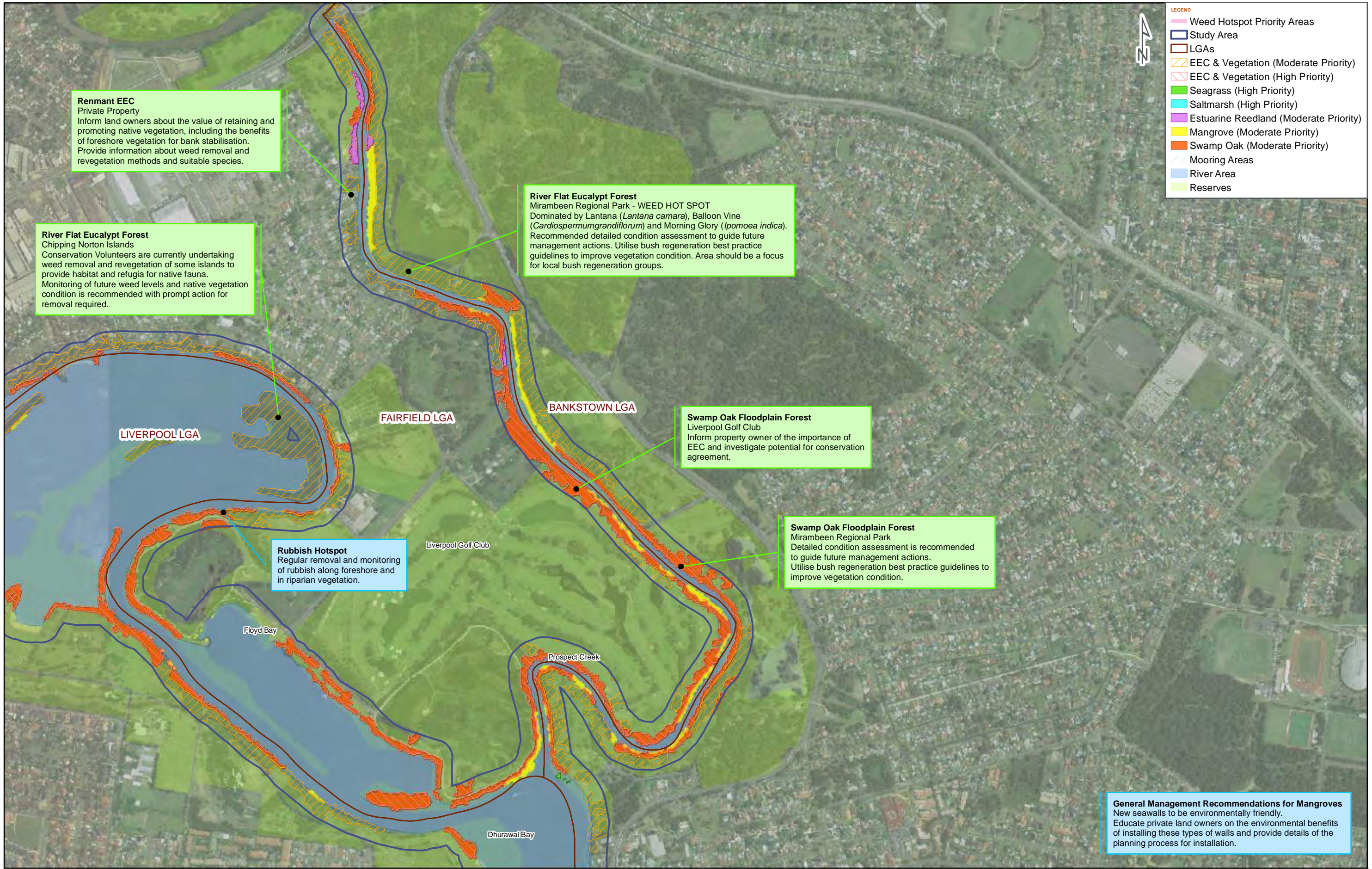
**River Access**  
 Cherrybrook Park  
 Area could be used for educational purposes due to high public usage of the wharf and boat launch facilities. Educate on responsible use of watercraft, value of estuarine and foreshore vegetation and causes and outcomes of foreshore erosion.

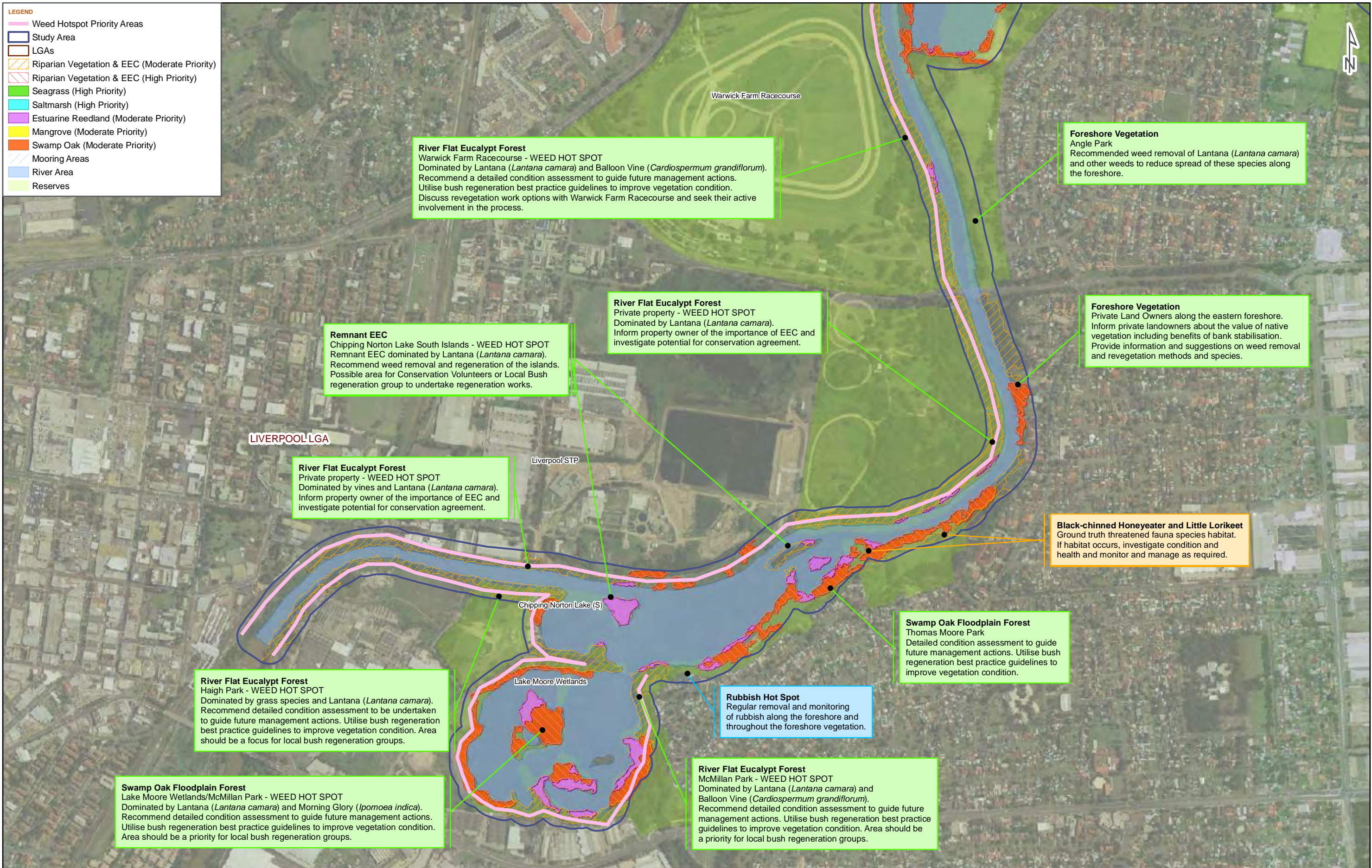
**River Flat Eucalypt Forest**  
 Cabramatta Creek (Liverpool LGA) - WEED HOT SPOT  
 Dominated by Balloon Vine (*Cardiospermum grandiflorum*) and Wild Tobacco Bush (*Solanum mauritianum*). Recommend detailed condition assessment to guide future management actions. Integrated weed control program including neighbouring council. Weed species recorded on Fairfield Council side include Small-leaved Privet (*Ligustrum sinense*), Rambling Dock (*Acetosa sagittata*) and Lantana (*Lantana camara*).

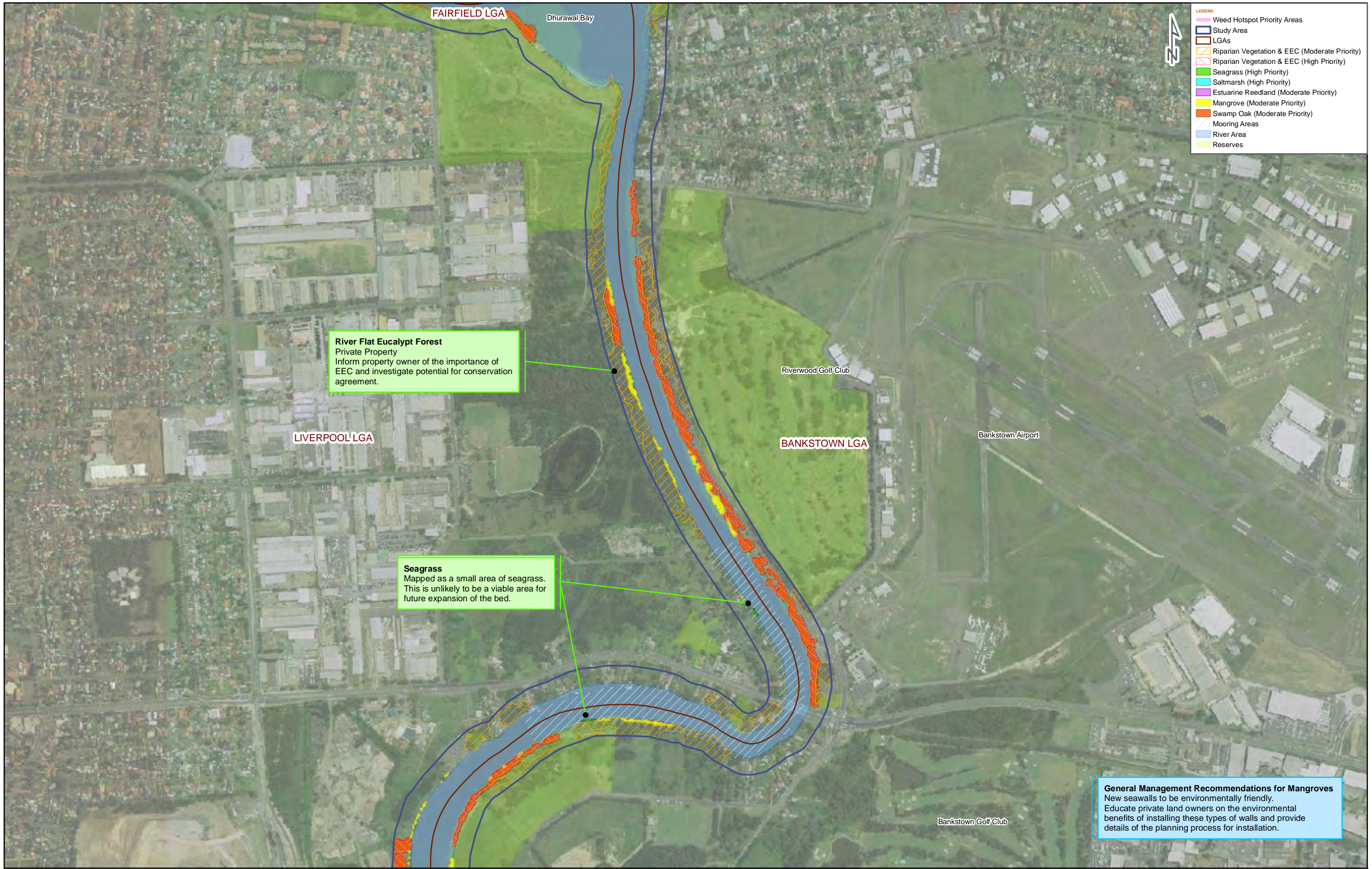
**River Flat Eucalypt Forest**  
 Chipping Norton Islands  
 Current condition is good with few weeds present. Monitoring of the level of weeds is recommended and prompt removal when weeds are detected.

**River Flat Eucalypt Forest**  
 Warwick Farm Racecourse - WEED HOT SPOT  
 Dominated by Lantana (*Lantana camara*) and Balloon Vine (*Cardiospermum grandiflorum*). Recommend a detailed condition assessment to guide future management actions. Discuss revegetation work options with Warwick Farm Racecourse and seek their active involvement in the process. Investigate incorporating foreshore revegetation in future bank stability works along this area.

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**River Flat Eucalypt Forest**  
 Private Property  
 Inform property owner of the importance of EEC and investigate potential for conservation agreement.

**Seagrass**  
 Mapped as a small area of seagrass. This is unlikely to be a viable area for future expansion of the bed.

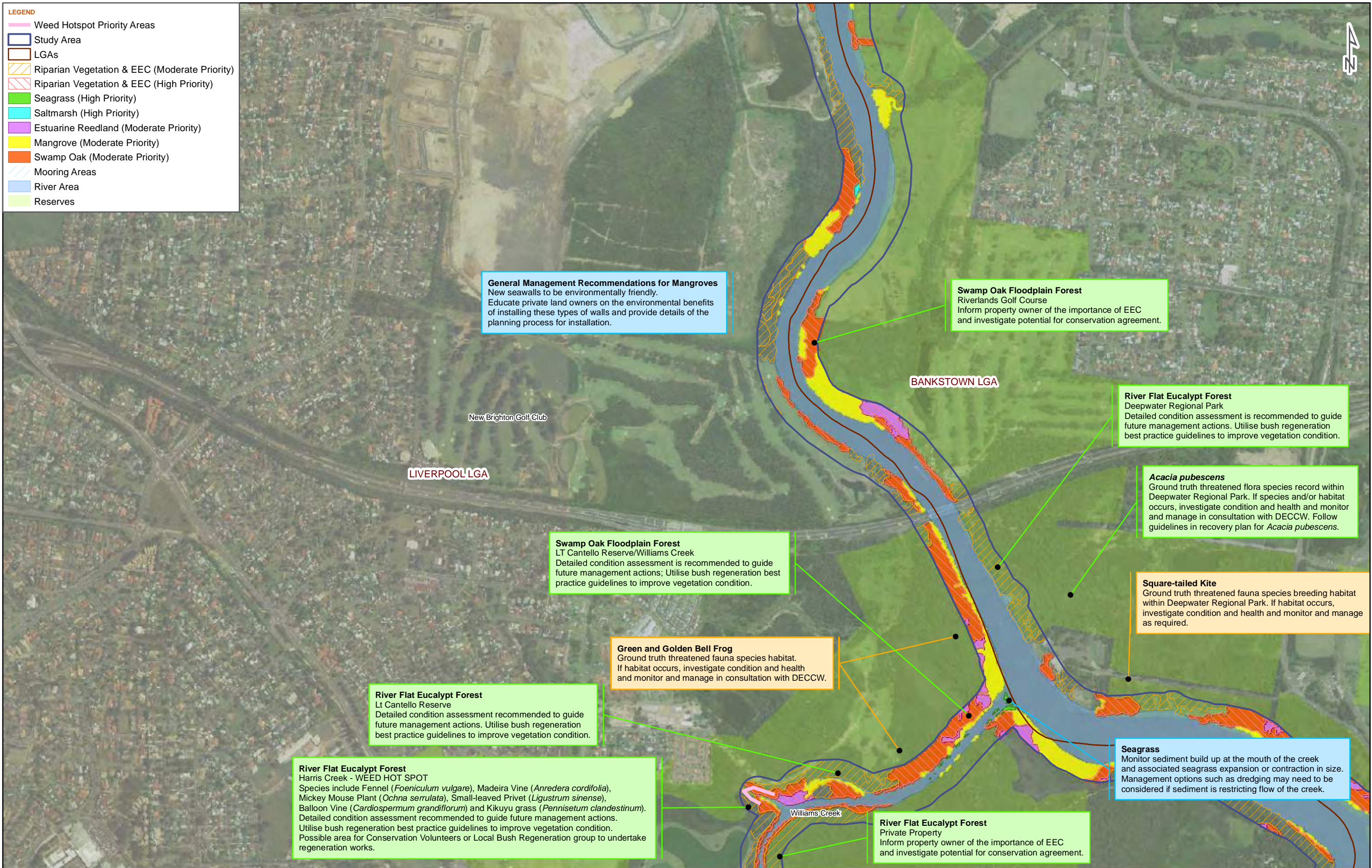
**General Management Recommendations for Mangroves**  
 New seawalls to be environmentally friendly. Educate private land owners on the environmental benefits of installing these types of walls and provide details of the planning process for installation.


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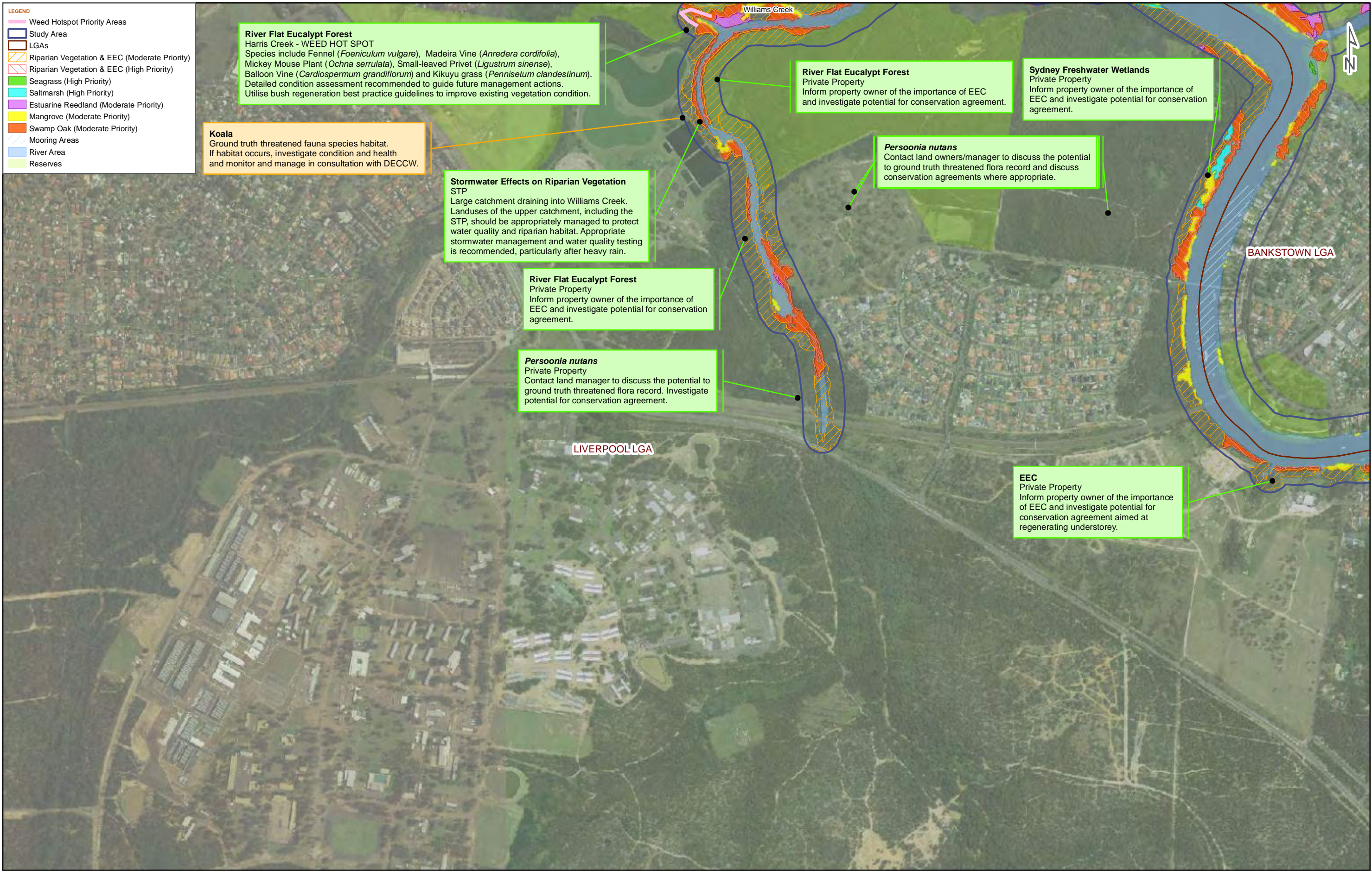
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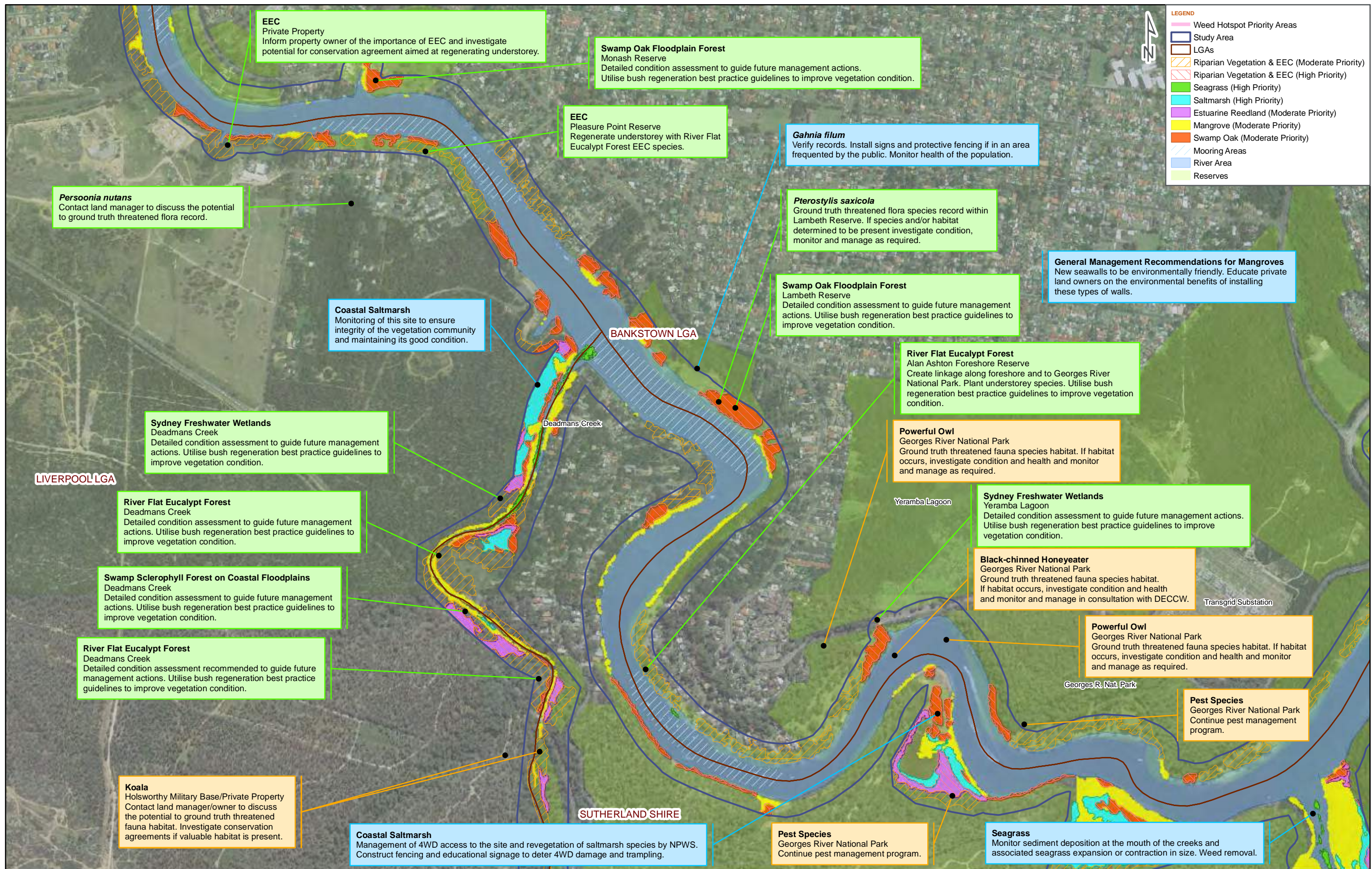
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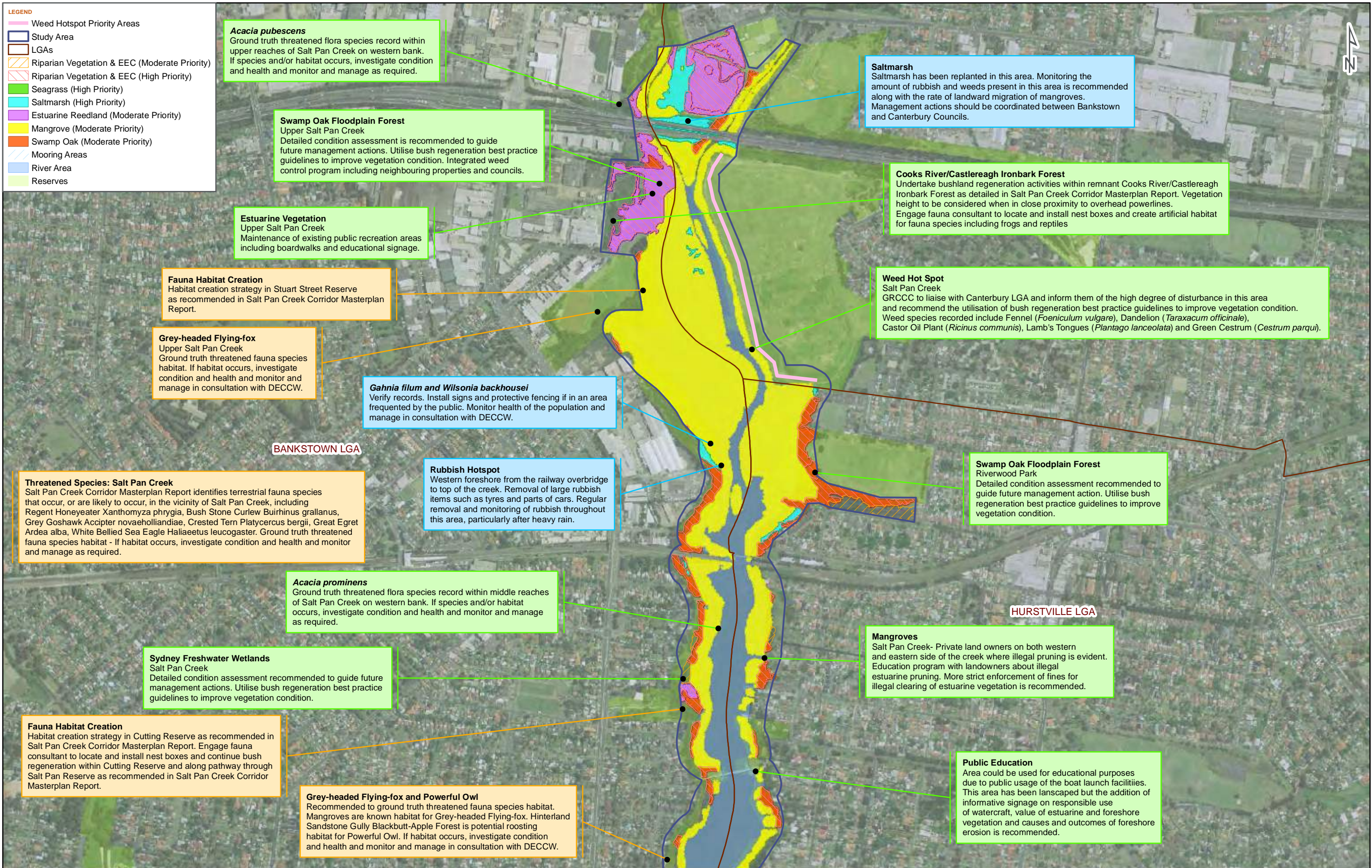
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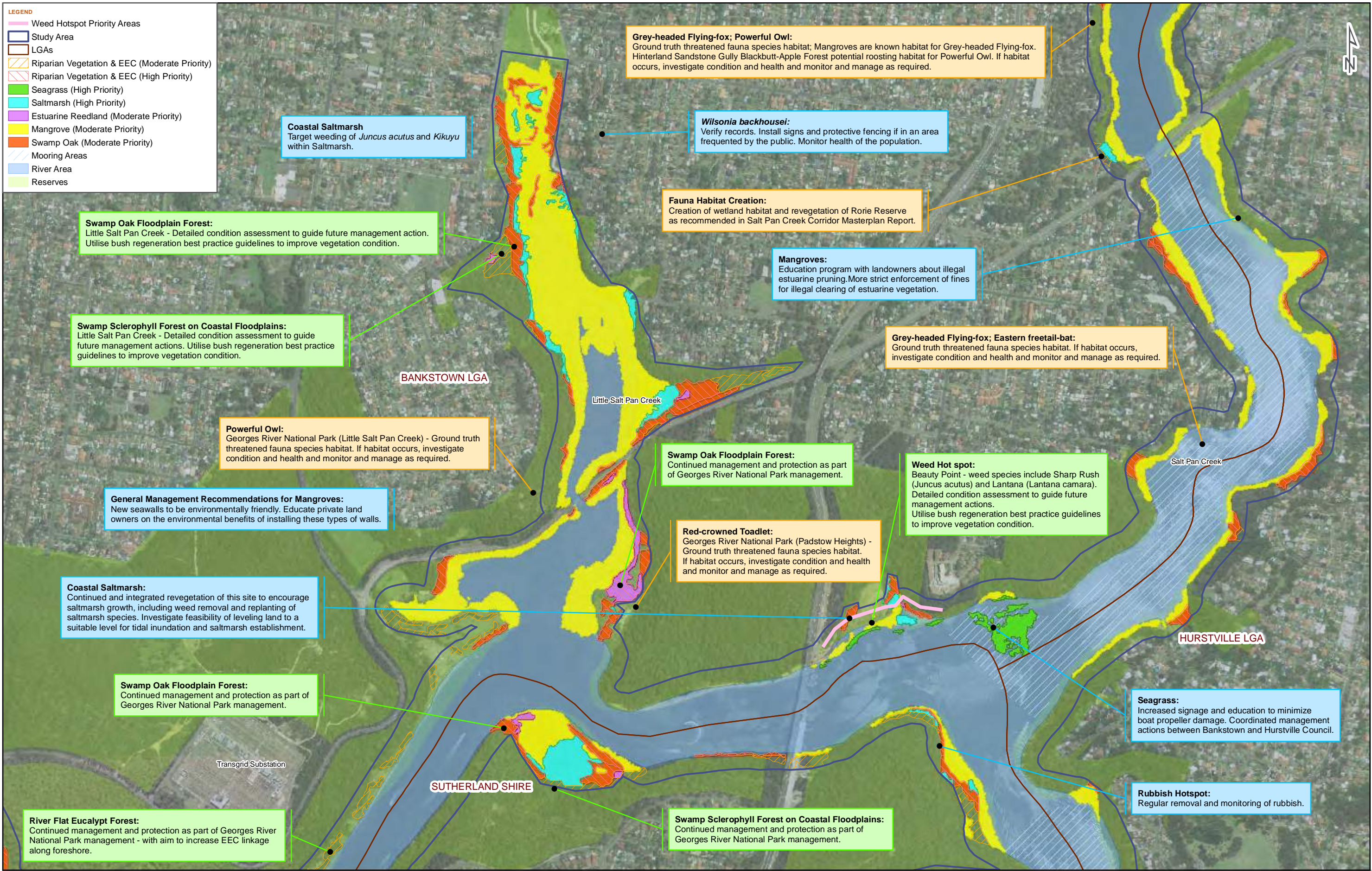





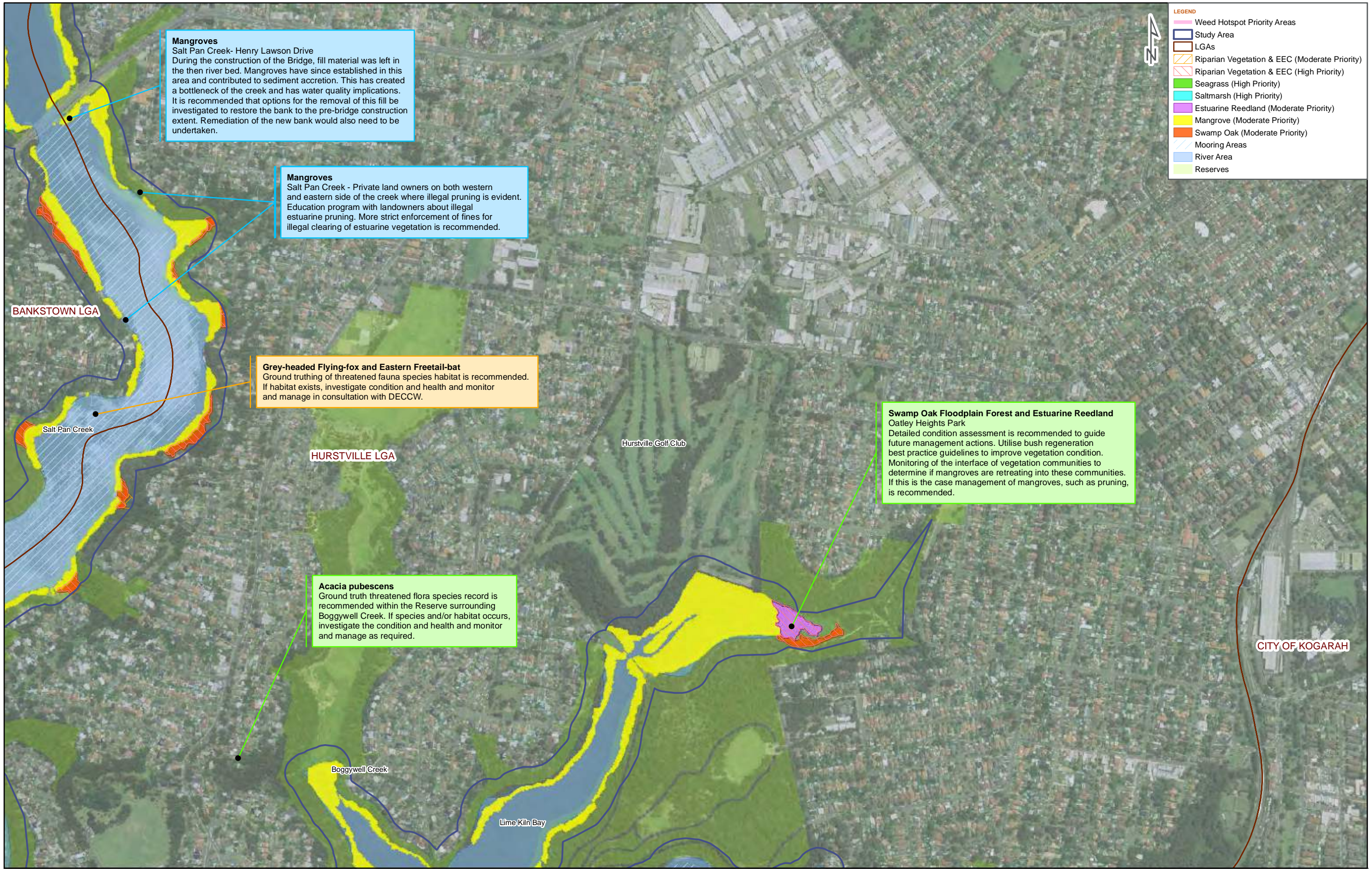


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**Mangroves**  
 Salt Pan Creek- Henry Lawson Drive  
 During the construction of the Bridge, fill material was left in the then river bed. Mangroves have since established in this area and contributed to sediment accretion. This has created a bottleneck of the creek and has water quality implications. It is recommended that options for the removal of this fill be investigated to restore the bank to the pre-bridge construction extent. Remediation of the new bank would also need to be undertaken.

**Mangroves**  
 Salt Pan Creek - Private land owners on both western and eastern side of the creek where illegal pruning is evident. Education program with landowners about illegal estuarine pruning. More strict enforcement of fines for illegal clearing of estuarine vegetation is recommended.

**Grey-headed Flying-fox and Eastern Freetail-bat**  
 Ground truthing of threatened fauna species habitat is recommended. If habitat exists, investigate condition and health and monitor and manage in consultation with DECCW.

**Swamp Oak Floodplain Forest and Estuarine Reedland**  
 Oatley Heights Park  
 Detailed condition assessment is recommended to guide future management actions. Utilise bush regeneration best practice guidelines to improve vegetation condition. Monitoring of the interface of vegetation communities to determine if mangroves are retreating into these communities. If this is the case management of mangroves, such as pruning, is recommended.

**Acacia pubescens**  
 Ground truth threatened flora species record is recommended within the Reserve surrounding Boggypwell Creek. If species and/or habitat occurs, investigate the condition and health and monitor and manage as required.

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FIG NO. 8.12k

FIGURE TITLE Ecological Management Priorities

PROJECT NO. 3001765

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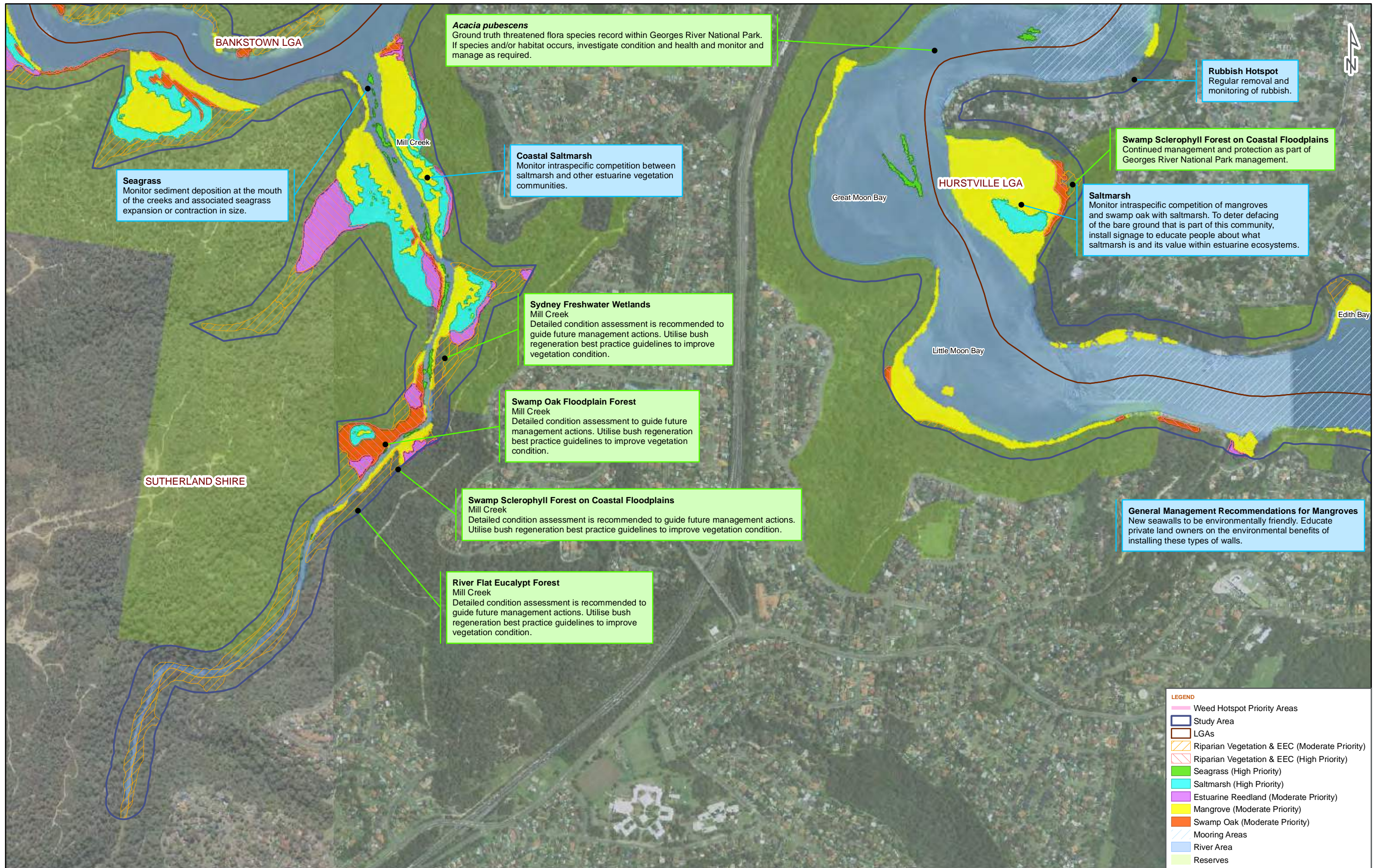
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FIG NO. 8.121

FIGURE TITLE Ecological Management Priorities

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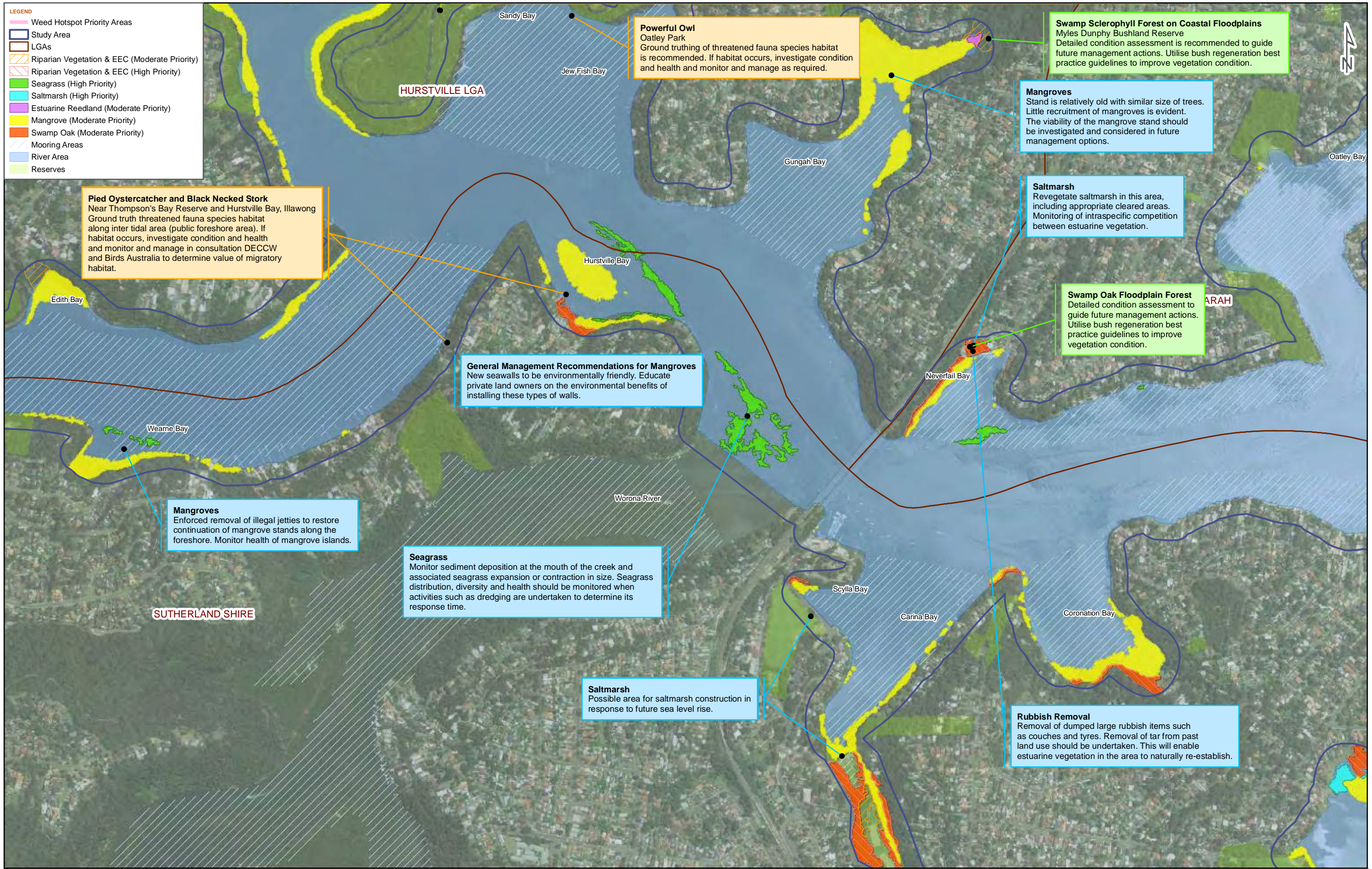
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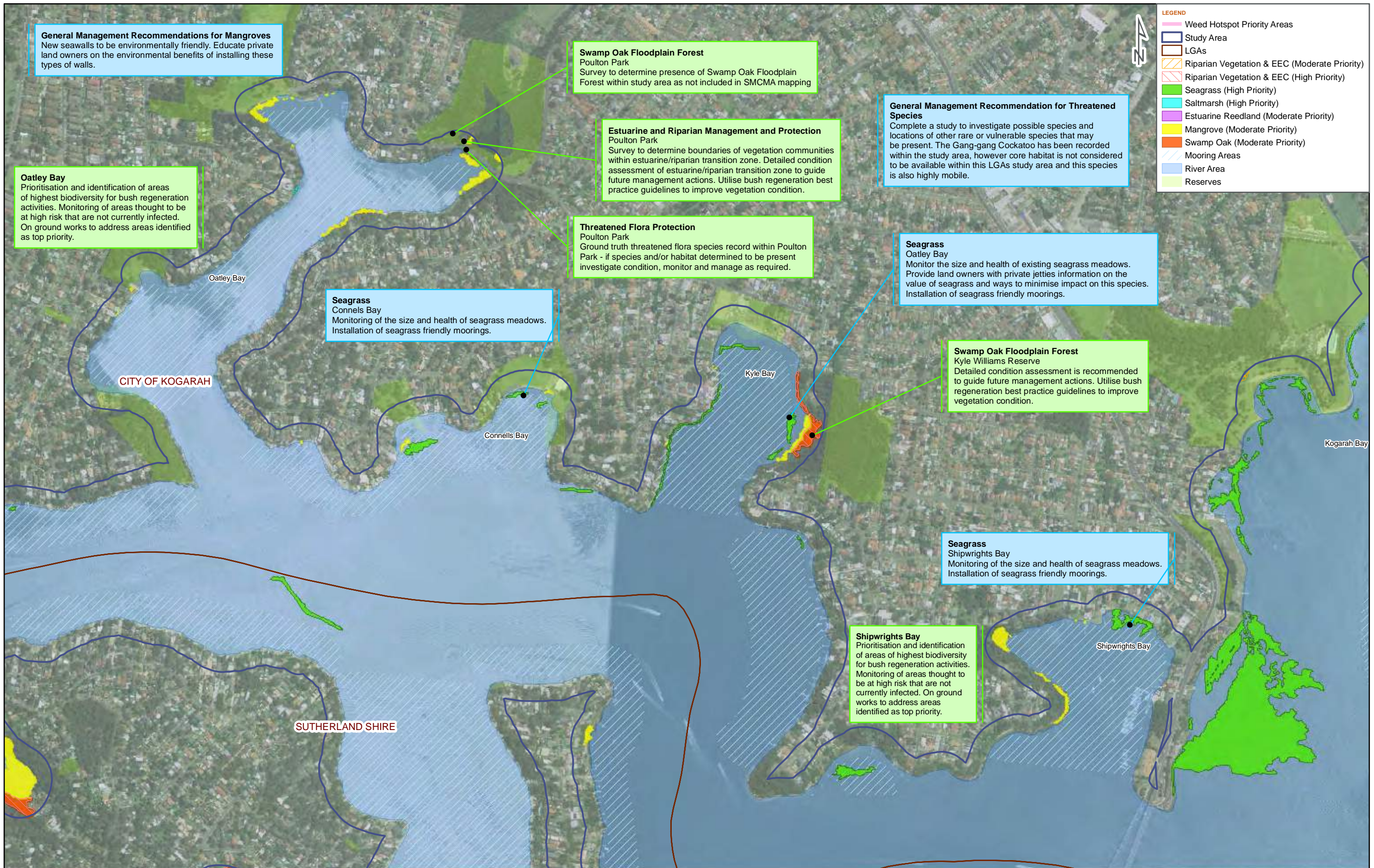
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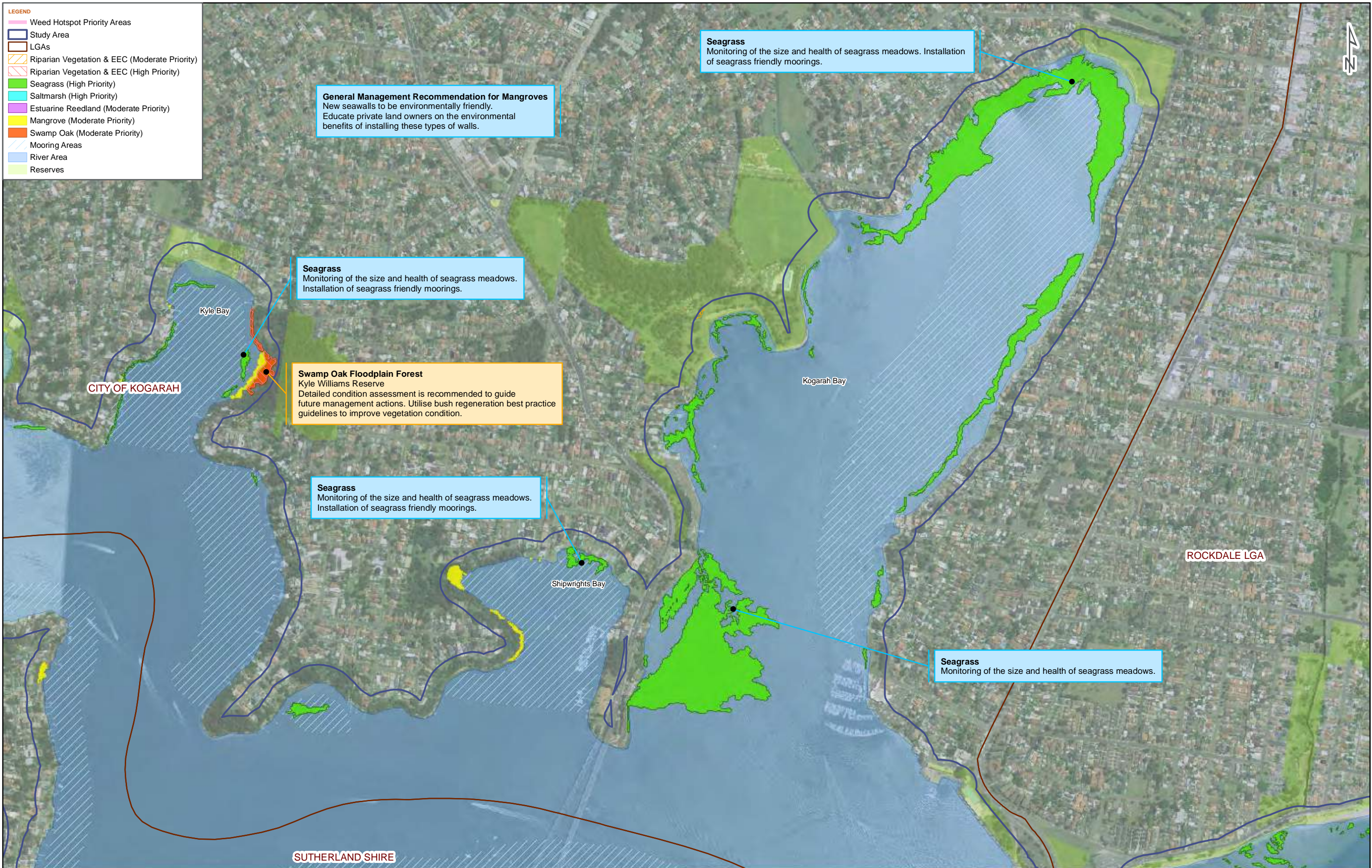






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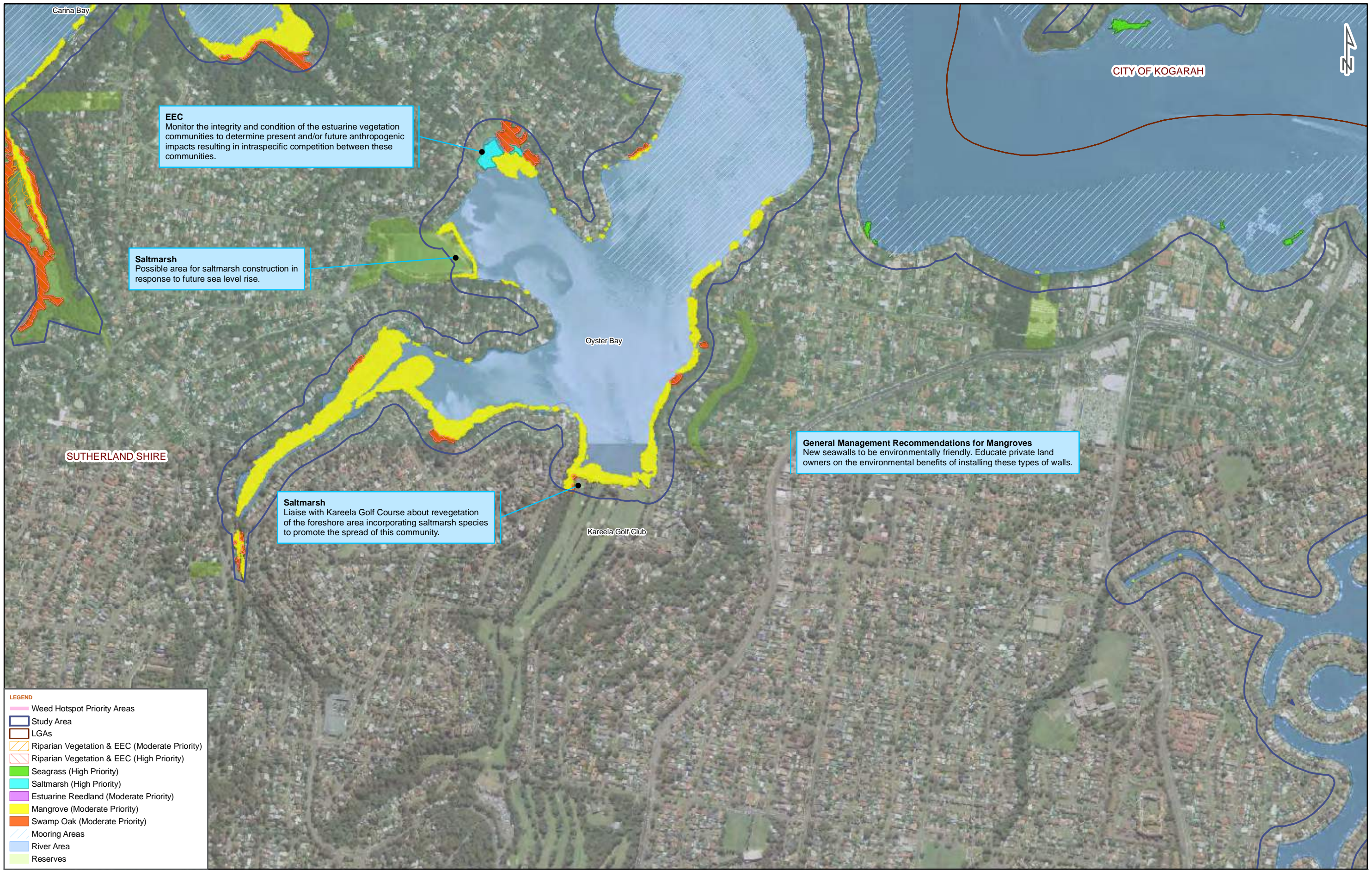


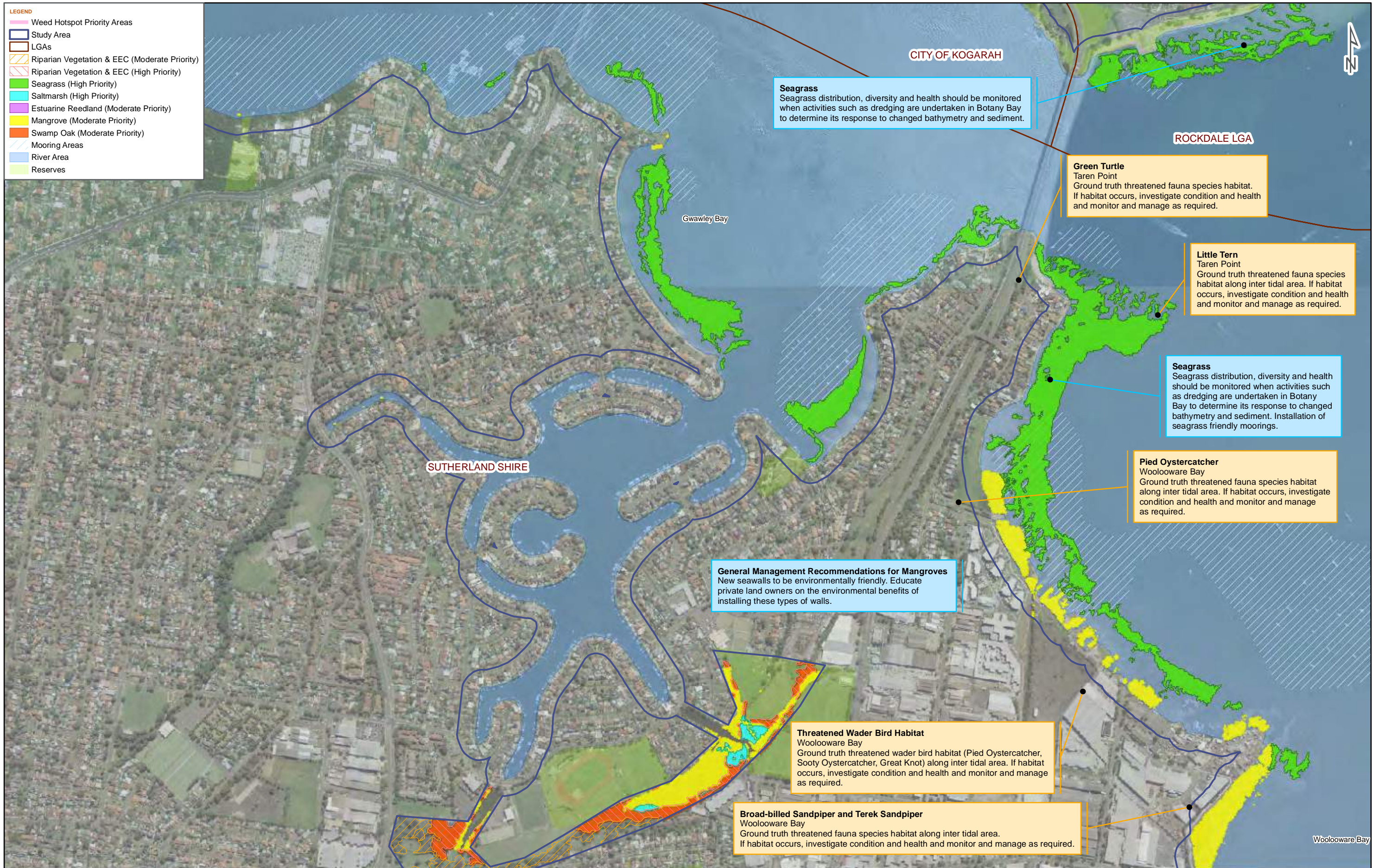
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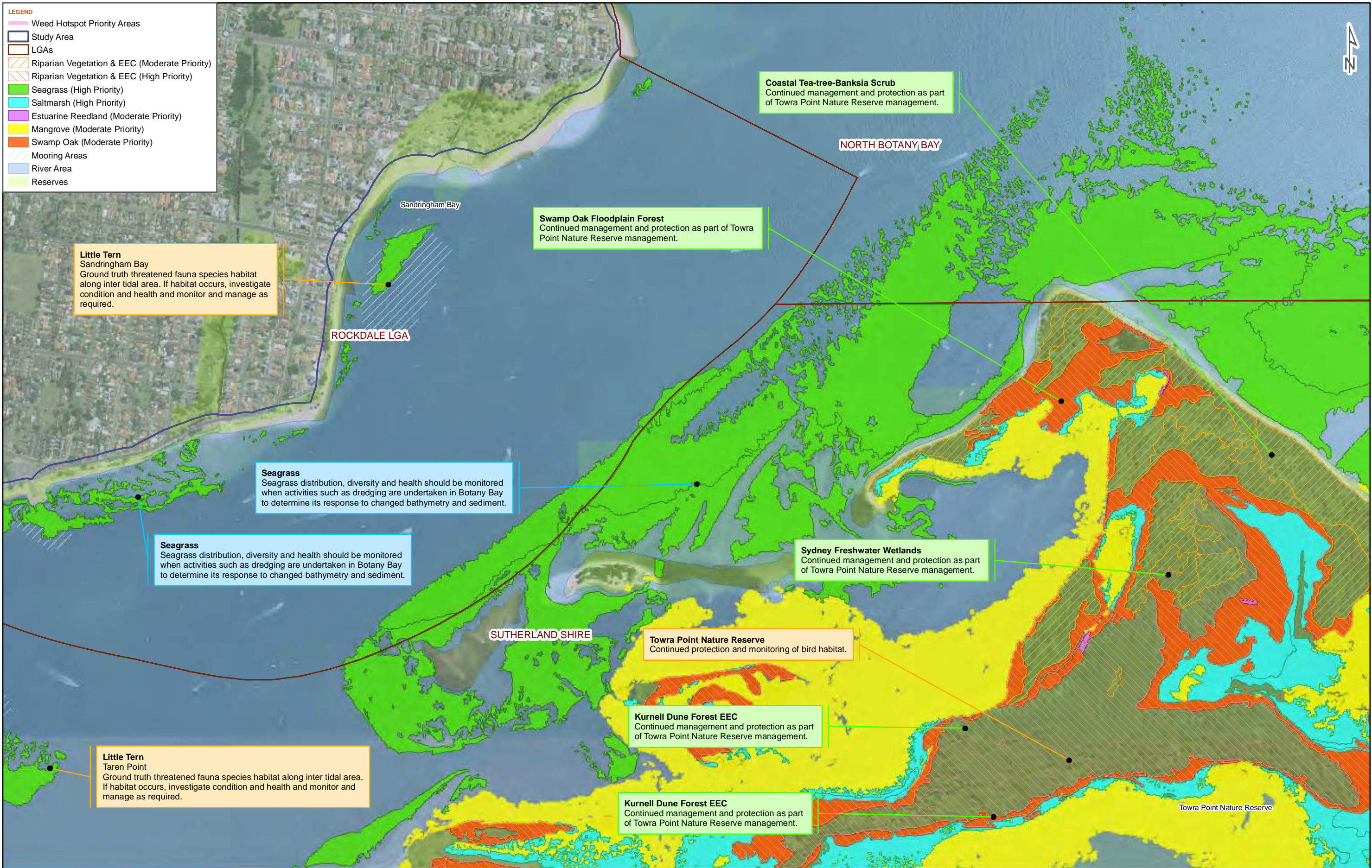
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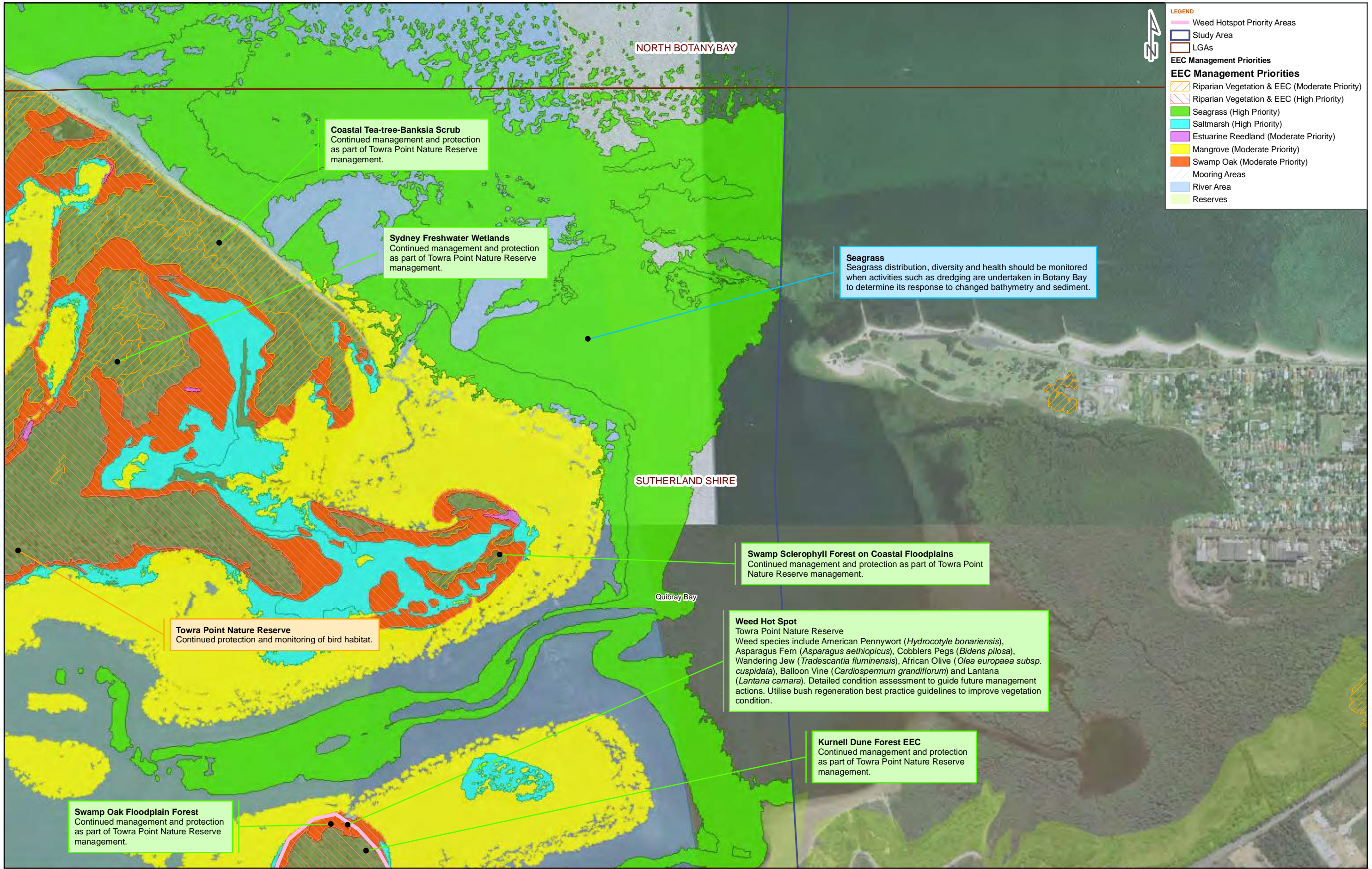


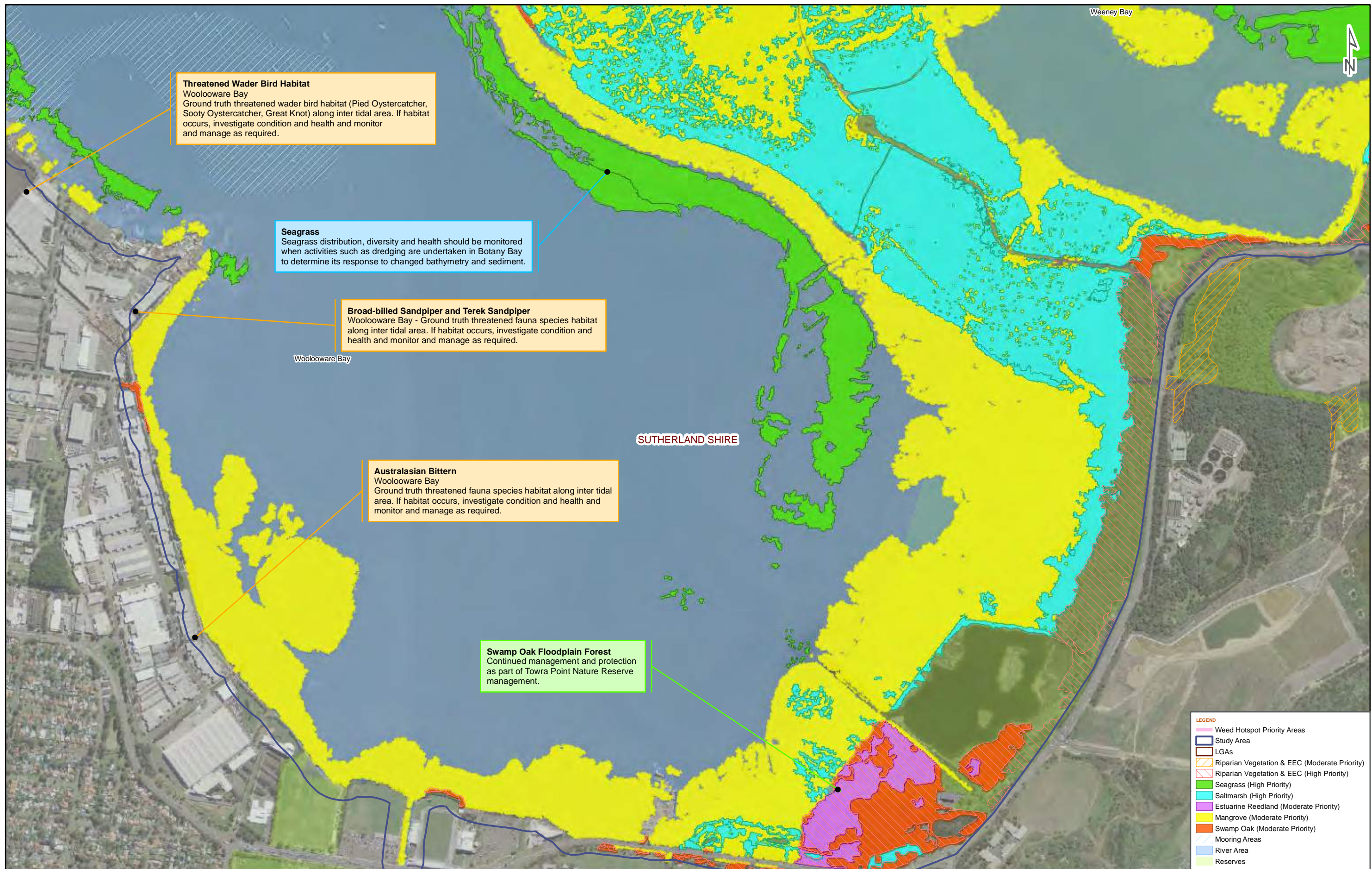


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FIG NO. 8.12t

FIGURE TITLE Ecological Management Priorities

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Artificial crossing to island out of wooden crates causing circulation restriction. Crossing used to gain access to island to create bike trail which is destabilising island sediments. Crossing should be removed and island stabilised with riparian species.



Perimeter of Sydney Freshwater Wetlands EEC dominated by exotics and weeds. Would be a good opportunity to control weeds and remove exotics and replace with native species to create a buffer around the wetlands from the urban area.



Small patch of saltmarsh amongst reeds. Monitor saltmarsh and control access.



Mangrove seedlings and trees scattered along the eastern and western foreshore. Potential to expand mangroves along both the eastern and western foreshore up to the bridge via planting seedlings to increase this important habitat type.



Good condition Kurnell Dune Forest EEC vegetation. Minimal impacts. Continue to protect and educate public via signage. Removal of exotics adjacent to tennis courts.



Bank erosion due to lack of groundcover and ad hoc access between access path and parklands contributing sediments to ponds. Control erosion via establishing ground cover species under Casuarina trees and limiting access.



Foreshore and areas adjacent to mown trail dominated by weeds. Bush regeneration activities required to control weeds and replace with native species.



Excellent opportunity for extensive revegetation along this drainage channel. Weeds dominate and there is a lack of native riparian species while there is plenty of available land.



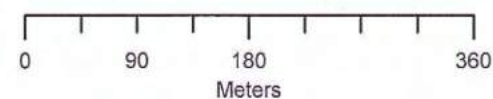
Exotic species dominating foreshore along western bank with limited native riparian vegetation. Revegetation of the riparian zone with native species required. Ample space to allow a good width riparian buffer.



Weed infestations along western bank from pipes to 1<sup>st</sup> bridge with limited native riparian vegetation. Weed removal and revegetation with native species required to create a buffer along foreshore.



**Figure 8.12w:** Ecological Management Priorities  
Scarborough Park Ponds, Rockdale LGA



**Project Title:** Georges River Estuary Process Study  
DECCW Amended Figure



Channel choked by aquatic macrophytes upstream of this point.



Council mows right up to phragmites on the eastern foreshore with limited native riparian vegetation. Revegetation of the riparian zone with native species required. Ample space to allow a good width riparian buffer.



Patch of mangroves amongst Casuarina trees adjacent to creek and connected by a pipe. Mangroves heavily impacted by foot traffic and sediment / leaf litter from stormwater. Small patch of saltmarsh and extensive weeds patches throughout. Griffiths St is the mangrove limit of the creek.



Council mows right up to phragmites on the eastern foreshore with limited native riparian vegetation. Revegetation of the riparian zone with native species required. Ample space to allow a good width riparian buffer up past Ida St. Some patches of no vegetation and stretches of bank erosion.



Mangrove seedlings establishing in saltmarsh closest to channel. Council to consider merits of removing mangroves into the future as will continue to be an issue.



Council mows right up to phragmites on both sides of foreshore with limited native riparian vegetation. Revegetation of the riparian zone with native species required. Ample space to allow a good width riparian buffer.



Extensive weeds in this patch of vegetation. Bush regeneration required.



Exotic coral trees dominate western bank which would drop large quantity of leaf matter into creek. Council to explore removing and replace with native trees.



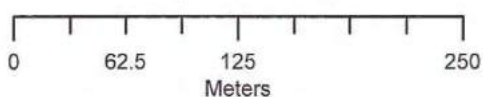
Bare earth in horse enclosures on top of bank, with bank erosion also evident along western foreshore. Possible opportunity to revegetate bank on creek side of landowners fence to control any sediment washing into creek. Section of bank has also been used to dump fill which is slumping into creek.



Trial incorporation of mulch to topsoil to increase cover of saltmarsh vegetation in bare areas. Minor replanting of riparian species bordering saltmarsh to maintain buffer in certain small patches.



**Figure 8.12x:** Ecological Management Priorities Bado-Berong Creek, Rockdale LGA



**Project Title:** Georges River Estuary Process Study DECCW Amended Figure