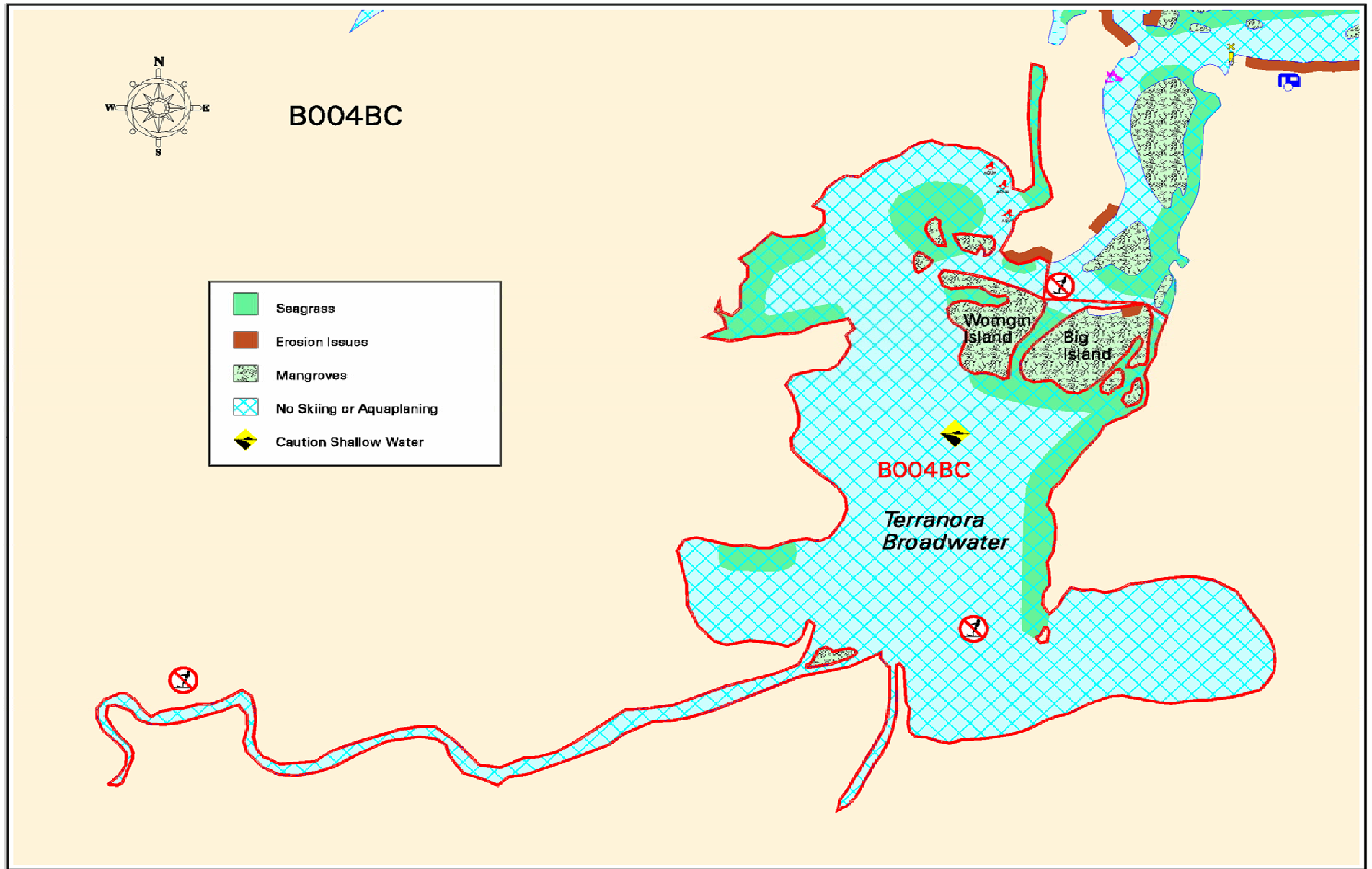


B004BC

TERRANORA BROADWATER



19 TERRANORA BROADWATER (B004BC)

19.1 DESCRIPTION:

Terranora Broadwater is a large and shallow tidal lake located south-west of Tweed Heads. It has been identified as being one of the few remaining rich and diverse habitats on the Tweed Estuary. Commercial activity is restricted mainly to oyster farming with some recreational facilities located in the north-western bays.

Note: The Terranora Broadwater has been the subject of a management plan developed by the Tweed Council, the primary objective of which is habitat protection. The Healthy Rivers Commission's (HRC) Independent Inquiry into Coastal Lakes rated the Broadwater high in terms of natural sensitivity and recognised conservation value. In line with the HRC's recommendations the NSW Maritime discourages any improvements in boating access to the Broadwater which would encourage an increase in boating activity.




The management strategies adopted for both the Terranora and Cobaki Broadwaters are consistent with this primary objective of habitat protection.

19.2 Navigational Restrictions

- The entrance to the Broadwater is a dedicated No Skiing or Aquaplaning area.
- The whole Broadwater is shallow and represents a significant navigational hazard for all but small tinnies and punts.
- The Seagulls canal is marked as a 4 knot and No Wash zone.
- A number of mangrove islands including Big and Womgin Islands located in and near the entrance to the Broadwater.

19.3 Navigational Aids

At the time of writing this plan, the existing nav aids consisted of:

Navaid Type	Location
 No Skiing or Aquaplaning Signage	⇒ At the entrance to the Broadwater
 Four knot signage	⇒ Seagulls Canal Estate
 No Wash signage	⇒ Seagulls Canal Estate
Minimise Your Wash signage	⇒ At selected sites throughout the Broadwater

19.4 Infrastructure

A small public jetty is located in Birds Bay.

19.5 Compliance History

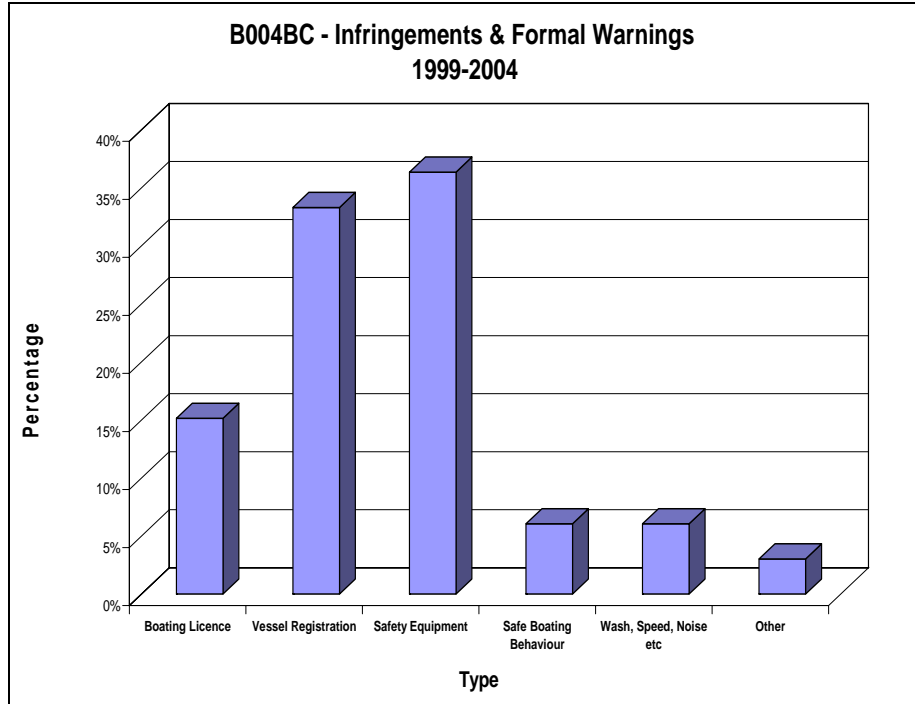


Figure 28

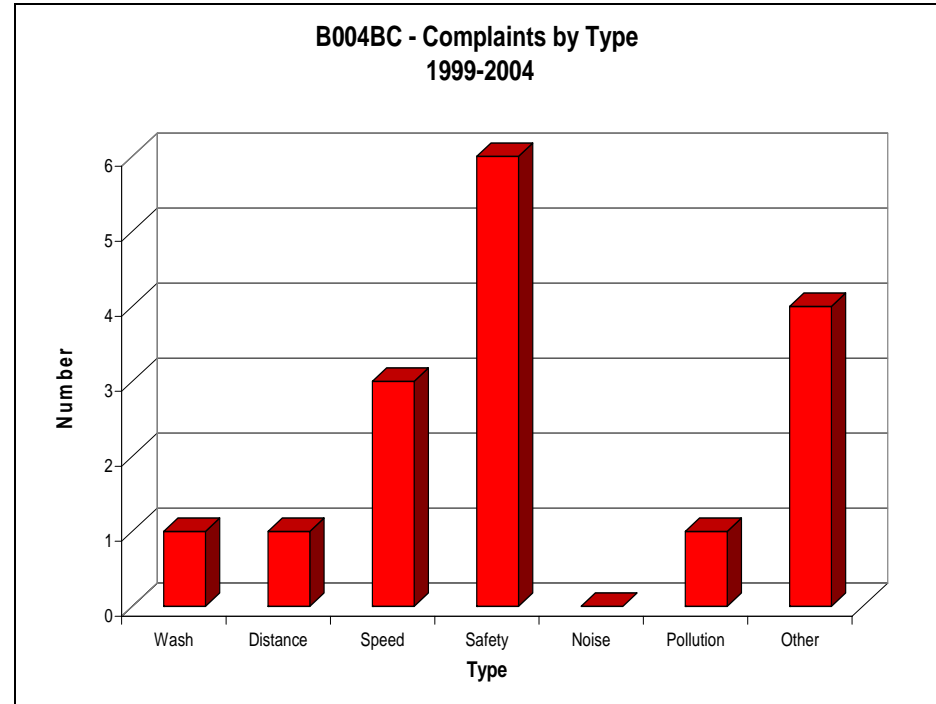


Figure 29

There have been minimal complaints registered for this management section during the 1999 – 2004 period (see Figure 25). This can be attributed, in part, to the fact that the shallow nature of the Broadwater limits the level of boating activity occurring there.

19.6 Values

- ◆ Stakeholders value the Terranora Broadwater as a high conservation area with rich and diverse habitats for aquatic, avian and terrestrial species.
- ◆ The eastern foreshore of Terranora Broadwater is valued for its highly significant archaeological sites.
- ◆ The Terranora Broadwater is valued as an area in which to enjoy passive recreational activities such as fishing and canoeing.
- ◆ Commercial fishermen and NSW Fisheries value the Broadwater for its important aquaculture industry.
- ◆ The Healthy Rivers Commission's report into Coastal Lakes gave the Terranora Broadwater a "high" conservation value rating.

19.7 Issues

- ◆ The continued existence of the rich and diverse habitats of Terranora Broadwater is seen as crucial to the ecology of bird and marine life. Stakeholders were concerned that the increased boat usage on the river, unless well managed, will potentially put pressure on the environmental and ecological habitats of the Broadwater.
- ◆ Boating traffic on Terranora Broadwater must be managed in such a way as to ensure the preservation of valuable archaeological sites.
- ◆ With the increased use of the Tweed Estuary, the Boating Plan must maintain the recreational amenity of the Broadwater and only encourage sensitive low key levels of activity.
- ◆ A substantial number of current aquaculture leases are located in the Broadwater. These leases should be considered in the development of the boating plan to ensure water quality and watercraft operation and infrastructure associated with boating activity in the Tweed River do not adversely affect this industry.

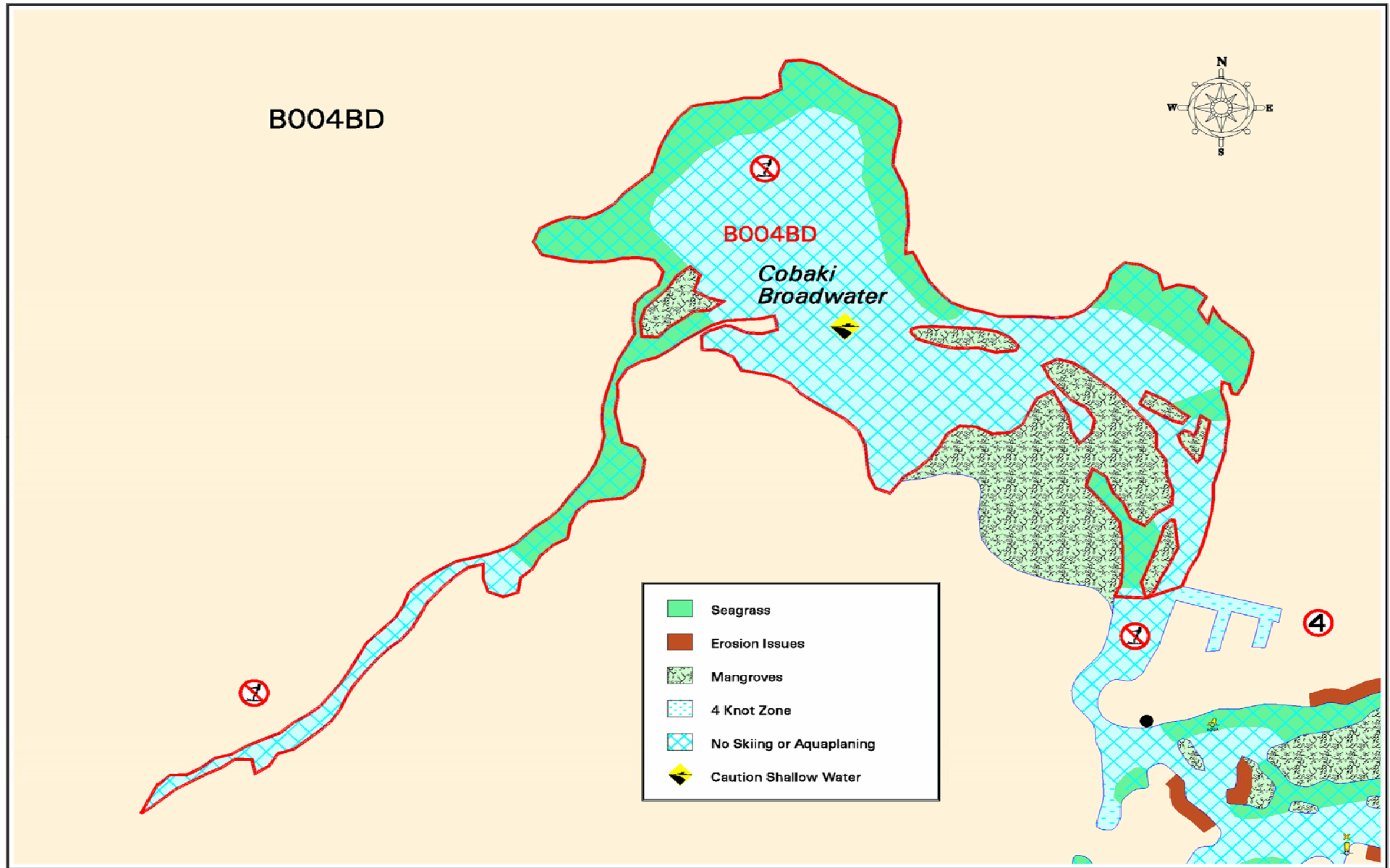
Note: The shallow nature of the Terranora Broadwater provides a natural obstruction to navigation. That is, the Broadwater is too shallow for the type of boating activity that would impinge on the aquaculture industry in the area.

19.7 Management Strategies and Action Plan

Outcome	Strategies	Actions	Timeframe
<p>Minimise the impact of boating on the Broadwater.</p>	<ul style="list-style-type: none"> ▪ Discourage any improvements in boating access that would increase boating activity. The whole Broadwater is a natural navigation restriction due to its shallowness. Maritime's current management approach for this section of the estuary is consistent with the Broadwater's primary objective, habitat protection. 	<p>Enhance existing management strategies:</p> <ul style="list-style-type: none"> ▪ Extend existing No Towing restrictions throughout the entire Broadwater. ▪ Install "Minimise Your Wash" signage at selected locations within the Broadwater. ▪ Increase compliance program with regard to distance-off and irregular driving (freestyling) regulations, when and as necessary ▪ Reviewing existing signage and install additional signs as and when required. 	<p>} } Medium } term } } } Ongoing }</p>
<p>Improved navigation in Birds Bay.</p>	<ul style="list-style-type: none"> ▪ Channel marking 	<ul style="list-style-type: none"> ▪ Mark a navigation channel in Birds Bay from Seagulls Public Wharf to the SE corner in Birds Bay. 	<p>Short Term</p>

B004BD

COBAKI BROADWATER



20 COBAKI BROADWATER (B004BD)

20.1 Description:

Cobaki Broadwater is a large and shallow tidal lake located west of Tweed Heads. It is one of the few remaining rich and diverse habitats on the Tweed Estuary. The Cobaki Broadwater has been recommended for inclusion in a proposed Tweed Estuary Reserve by the National Parks and Wildlife Service.




Note: Cobaki Broadwater has been the subject of a management plan developed by the Tweed Council, the primary objective of which is habitat protection. The Healthy Rivers Commission's (HRC) Independent Inquiry into Coastal Lakes rated the Broadwater high in terms of natural sensitivity and recognised conservation value. In line with the HRC's recommendations NSW Maritime discourages any improvements in boating access to the Broadwater which would encourage any increase in boating activity. The management strategies adopted for both the Cobaki and Terranora Broadwaters are consistent with this primary objective of habitat protection.

20.2 Navigational Restrictions

- The entrance to Cobaki Broadwater is a dedicated No Skiing or Aquaplaning area.
- The whole Broadwater is shallow and represents a significant navigational hazard for all but small tinnies and punts.
- A residential canal estate near the entrance to the Broadwater is marked as a 4 knot and No Wash zone.

20.3 Navigational Aids

At the time of writing this plan, the existing navaids consisted of:

Navaid Type	Location
 No Skiing or Aquaplaning Signage	⇒ At the entrance to the Broadwater
 Four knot signage	⇒ Residential Canal Estate
 No Wash signage	⇒ Residential Canal Estate

20.4 Compliance History

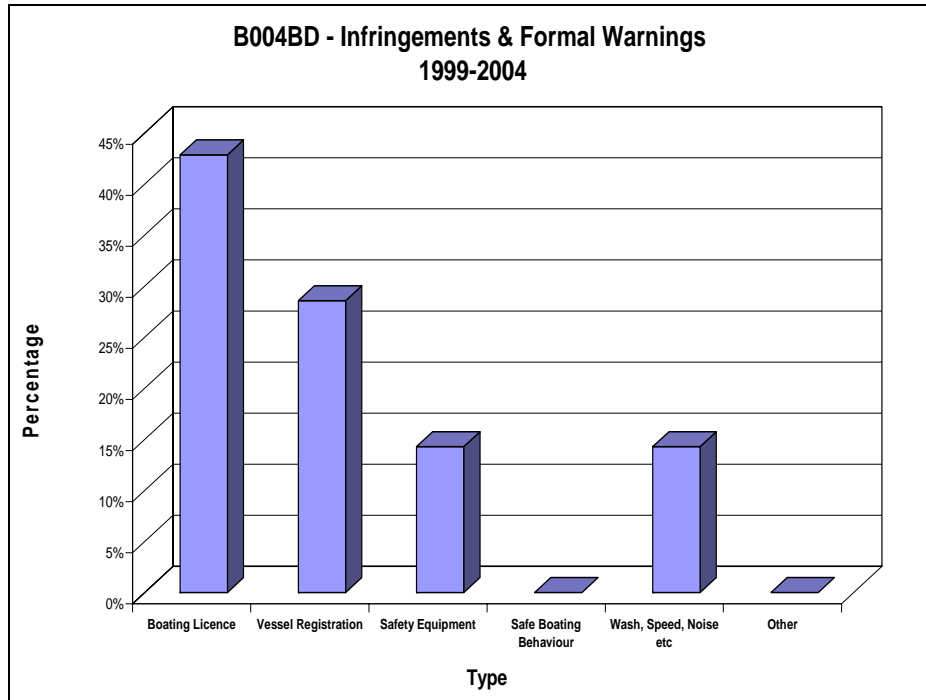


Figure 30

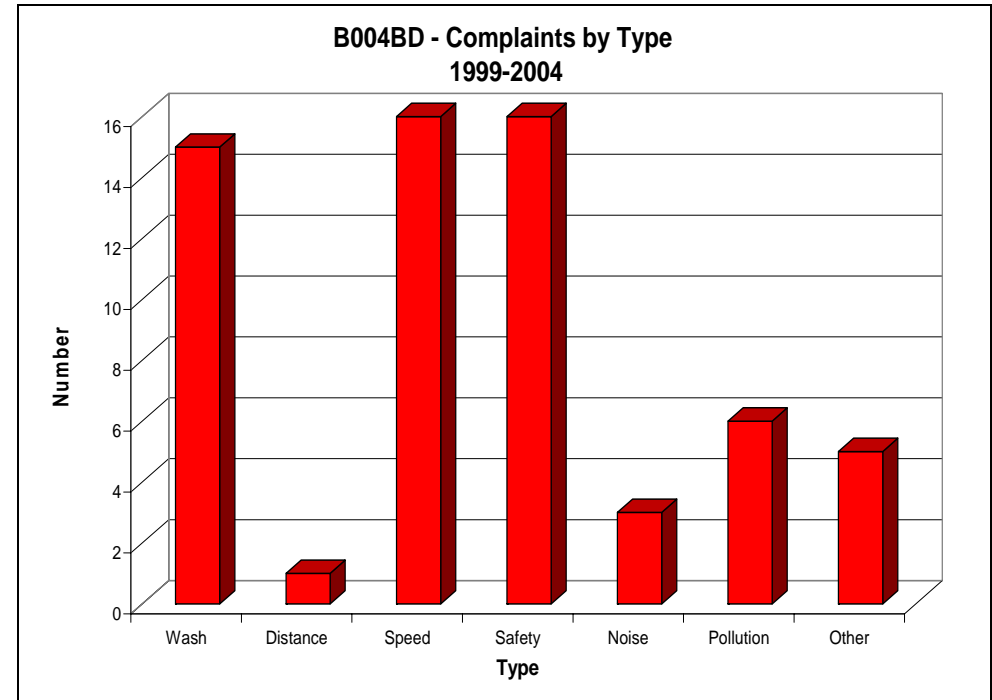


Figure 31

The majority of complaints registered with Maritime have been for wash and speed issues in and around the residential canal estate at Cobaki Canal.

20.5 Values

- ◆ Like the Terranora Broadwater, stakeholders value the Cobaki Broadwater as a high conservation area with rich and diverse habitats for aquatic, avian and terrestrial species.
- ◆ The Broadwater is valued as an area in which to enjoy passive recreational activities such as fishing, canoeing and kayaking.
- ◆ The Healthy Rivers Commission’s report into Coastal Lakes gave the Cobaki Broadwater a “high” conservation value rating.

20.6 Issues

- ◆ Previous management plans expressed concern over the impacts of boating on Cobaki Broadwater and suggested that restrictions should aim to “consolidate the area’s isolated role as a protected habitat for avifauna, terrestrial and aquatic fauna”.
- ◆ With the increased use of the Tweed Estuary, stakeholders believe that the Boating Plan must maintain the recreational amenity of Cobaki Broadwater and only encourage sensitive low key levels of activity.
- ◆ Stakeholder submissions expressed the desire for the Broadwater to be “off limits to all but low impact, low powered craft, because of its environmentally sensitive nature, shallowness and very limited tidal interchange.”

20.6 Management Strategies and Action Plan

Outcome	Strategies	Actions	Timeframe
Minimise the impact of boating on the Broadwater.	<ul style="list-style-type: none"> ▪ Discourage any improvements in boating access that would increase boating activity. The whole Broadwater is a natural navigation restriction due to its shallowness. Maritime’s current management approach for this section of the estuary is consistent with the Broadwater’s primary objective, habitat protection. 	<p>Enhance existing management strategies:</p> <ul style="list-style-type: none"> ▪ Extend existing No Towing restrictions throughout the entire Broadwater. ▪ Install “Minimise Your Wash” signage at selected sites throughout the Broadwater. ▪ Increase compliance program with regard to distance-off and irregular driving (freestyling) regulations as and when necessary. ▪ Reviewing existing signage and install additional signs as and when required. 	<p>} } Medium } term } } } Ongoing }</p>

