

## Lake Rotoma

Site Number:	SNA118
Ecological District:	Rotorua Lakes
Source of Information:	None - based on aerial photographs
Digital Scale:	1:2,000
Data Source:	RDAM 2006
Regional Council:	Bay of Plenty
1998 Site Number:	Not identified in Shaw and Beadel (1998)
Current Tenure:	Unprotected
Site Area:	1,103.5 ha
	Unprotected

VEGETATION LANDFORM		EXTENT	
CODE	ТҮРЕ	LANDFURM	EATENT
1	Open water	Open water	1103.5 ha

of cc pi	5% of the lake shoreline in 1988 and was only present in protected areas f the Matutu Basin, southwest arm, and southern shoreline. Other ommon species present included <i>Lilaeopsis ruthiana</i> , <i>Myriophyllum ropinquum</i> , and <i>M. triphyllum</i> and extensive charophyte meadows were resent up to water depths of 16 m (Clayton <i>et al.</i> 1989).
	to threatened or at risk species as listed in de Lange <i>et al.</i> (2009) have been been been de from this site.
in M 'T bl U kr	rovides habitat for threatened and at risk indigenous bird species, acluding black-billed gull ('Threatened - Nationally Endangered' in liskelly <i>et al.</i> 2008), red-billed gull, New Zealand dabchick (both Threatened - Nationally Vulnerable'), pied stilt ('At Risk - Declining'), lack shag, little black shag, and little shag (all 'At Risk - Naturally incommon'). Grey duck ('Threatened - Nationally Endangered') are nown to occasionally utilise the lake and its margins, but this site is not inportant for their protection on a nation-wide basis.
<b>Condition:</b> av	nknown. Subject to algal blooms. A high quality habitat for indigenous vifauna. The current Trophic Level Index is 2.6, indicating an oligotrophic atus (Environment Bay of Plenty 2008e).
Change Relative to U Shaw and Beadel (1998):	nknown. Probably little change.
Vulnerability: ex W to	<i>avasive Exotic Plants</i> : Lagarosiphon major was common and still kpanding its range within the littoral zone of Lake Rotoehu in 1989. There Elodea canadensis was present it dominated submerged vegetation of 4.5 m water depth, although its spread was restricted to one area of the ke. (from Clayton <i>et al.</i> 1989)

## **Risk Assessment:**

Unknown



Contract Report No. 2049 Page 229



Significance Level:	National (Appendix 4 - Table 1 - Criteria 1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 13; Table 2 - Factors N9, N12, N15).
Significance Justification:	This site is of national significance as it is a relatively large lake providing significant habitat to threatened and at risk bird species.
Fieldwork Required:	No fieldwork is required to assess ecological values of this site.
Notes:	A relatively high proportion (41%) of the catchment of Lake Rotoma is covered in indigenous forest (Environment Bay of Plenty 2008e) which probably contributes to its oligotrophic status.
References:	Innes et al. (1999); Environment Bay of Plenty (2008e); Clayton et al. (1989).



