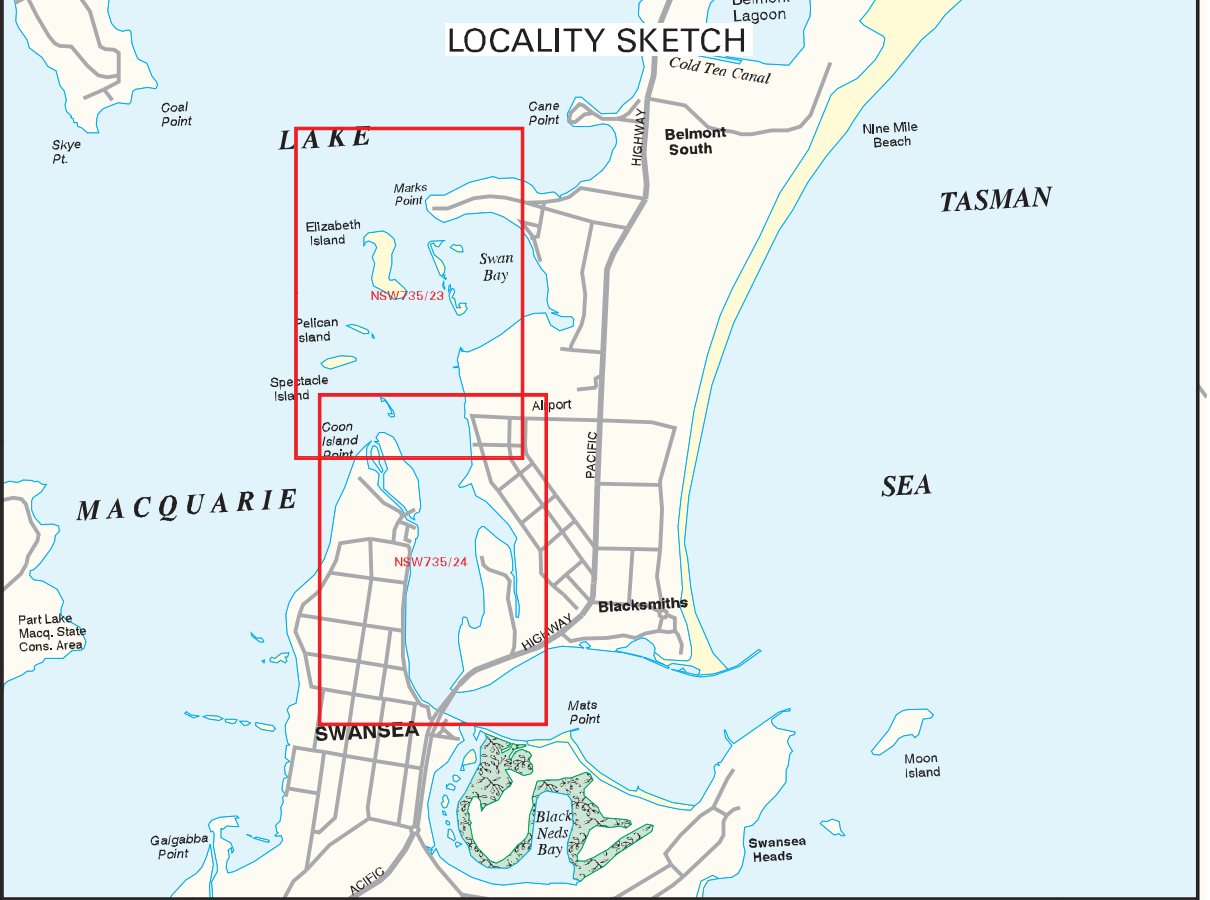


LAKE
MACQUARIE

SOLDIERS ROAD

PELICAN

COON ISLAND



SWANSEA

PELICAN INLET

WALLARAH DRIVE

STREET

PARADE

KAHIBAH STREET

STREET

SWANSEA CHANNEL

LITTLE PELICAN

PELICAN STREET

STREET

HIGHWAY

FORBES STREET

STREET

PACIFIC

RAWSON STREET

STREET

SWANSEA BRIDGE

BELMONT STREET

STREET

NSW MARITIME
HYDROGRAPHIC SURVEY
SWANSEA CHANNEL
24/5/2006

SCALE 1: 2000

0 20 40 60 80 100m

DATUM: Soundings are referred to 0.511 metres below MSL 22884 and 13.613 metres below SSM 23824 being Australian Height Datum. The decimal point denotes the position of each sounding.

SURVEY INFORMATION: This plan is produced on the Geocentric Datum of Australia 1994 (GDA94) Map projection is MGA zone 58

Soundings by S/V Surinder	Completed 23/5/2006
Navigation & Processing System: HYDRA	CHIPS Position System: CHARTERED SURVEY
Operator: F.B. DeLorenzo	Hydrographic Surveyor: D. Marino
Specialist Information Manager: M. Newman	Survey Manager: J. Pridmore

NOTE: This plan may not be true to scale. Measurements should be taken from the scale bar.

The mean sea level and tidal range are displayed in Table 1. These levels may be influenced by meteorological effects such as atmospheric pressure, wind, temperature, and rainfall, the hydrological effects of floodwater runoff and groundwater discharges, and the oceanographic effects such as waves, currents, salinity, water temperature and El Niño. Water levels in estuaries can also be affected by morphological changes caused by infilling and erosion of sediment near the entrance.

Table 1. Mean sea level and tidal range - Lake Macquarie

	Approximate level in m AHD
Swansea Heads Breakwater (Entrance)	Swansea Channel (Swan Bay)
Range (MHW - MLW)	0.66 0.20
Mean Sea Level	0.00 0.08

Manly Hydraulics Laboratory, on behalf of NSW Maritime, provides this information to the public with the understanding that the levels were determined using a limited data set and are provided as estimates only.

NAVIGATION AIDS

- ☆ Lit stbd. beacon no top mark
- ★ Lit port beacon no top mark
- ☆ Yellow light beacon
- ☆ Special Mark Aqua Buoy
- ☆ Pink Beehive Public Mooring
- ☆ Lit Stbd Buoy No Top Mark
- ☆ Lit Stbd Buoy with Top Mark
- ☆ Lit Port Buoy No Top Mark
- ☆ Lit Port Buoy with Top Mark
- ☆ Lit Port Aqua Buoy
- ☆ Lit Spec. Mark Aqua Buoy

DEPTH OF WATER

- 1 to 2 metres
- 2 to 3 metres
- 3 to 4 metres
- 4 to 5 metres
- 5 to 6 metres
- 6 to 7 metres
- 7 to 8 metres
- 8 to 9 metres
- 9 to 10 metres
- 10 to 11 metres
- 11 to 12 metres
- 12 to 13 metres
- Greater than 13 metres

Land
Sand
Park
Mangroves