372,500 E

373,000 E

373,500 E

6,342,000 N

6,341,500 N

6,341,000 N

6,340,500 N

6,340,000 N

MARKS POINT MARINA

MARKS POINT

MARKS POINT ROAD

ELIZABETH ISLAND

LAKE MACQUARIE

SWAN BAY

PELICAN ISLAND

SPECTACLE ISLAND

MARKS POINT

BELMONT AIRPORT

PELICAN MARINA

SOLDIERS ROAD

LAKEVIEW PARADE

PELICAN

N

S

E

W

NAVIGATION AIDS

- Lit stbd. beacon no top mark
- Starboard Aqua Buoy
- Port Aqua Buoy
- West Cardinal Aqua Buoy
- Special Mark Pillar Buoy
- Nth.Cardinal Conical Buoy
- Special Mark Aqua Buoy
- Blue Beehive Emerg Police
- Lit Stbd Buoy No Top Mark
- Lit Stbd Buoy with Top Mark
- Lit Starboard Aqua Buoy
- Lit starboard steel buoy
- Lit Port Buoy No Top Mark
- Lit Port Aqua Buoy
- Lit Port Steel Buoy
- Lit Spec. Mark Aqua Buoy
- Lit Special Mark Pillar Buoy

DEPTH OF WATER

- 0 to 1 metres
- 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
- Greater than 9 metres

Land
Sand
Nat.Pk.
Park
Mangroves

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 Nino. Water levels in esturaries 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)	1.66	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.

NSW MARITIME

HYDROGRAPHIC SURVEY

OF SWANSEA CHANNEL

23/5/2006

SCALE 1 : 2000

0 20 40 60 80 100m

DATUM: Soundings are reduced to 0.511 metres below PM 22684 and 13.613 metres below SSM 23824 being Australian Height Datum.

The decimal point denotes the position of each sounding.

This plan is produced on the Geocentric Datum of Australia 1994 (GDA94)
Map projection is MGA zone 56

SURVEY INFORMATION:

Sounded by Echo Sounder: ODOM CVX3 — Completed: 23/5/2006

Navigation & Processing System: HYPACK — DGPS Position System: OMNISTAR SUB METRE

F.B.Debreczeni — GIS OPERATOR
D.Marino — HYDROGRAPHIC SURVEYOR
S.Norton — SPATIAL INFORMATION MANAGER
J.Pollard — SURVEY MANAGER

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

DISCLAIMER
This plan has been produced by NSW Maritime for the purpose of an Estuary Monitoring Study. No warranty or representation, express or implied is made to any party not associated with that Study regarding the accuracy or otherwise of the plan. This plan should not be relied upon for any other purpose or used by any party not associated with the Study as the plan may not contain sufficient information for that purpose or use.

LOCALITY SKETCH

Previous Plan: NSW735/21

NSW735/23

/data1/data1/hydro_data/swansea/may2006/may2006.aml