



**Environmental Monitoring and Reporting
Swan River Estuary ~ Weekly profile**

by
Water Science Branch, Department of Water

Date: Tuesday 7th March 2017

Weather & tide conditions: Conditions were fine with up to 5% cloud cover and a south westerly breeze of up to 3 knots. The predicted tides at Guildford were 0.54 m (low tide) at 06:18 and 1.03 m (high tide) at 19:38. Perth recorded 2.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plant were operational the week prior to sampling.

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary saline to hypersaline throughout, with the exception of brackish surface water at BLA to HEA. Water was well oxygenated to oxygenated, with the exception of near anoxic bottom water at ARM and hypoxic bottom water at HEA. Water temperature ranged from 22.9 to 28.9 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was brackish and well oxygenated to oxygenated throughout all sites. Water temperature ranged from 27.7 to 29.7 °C.

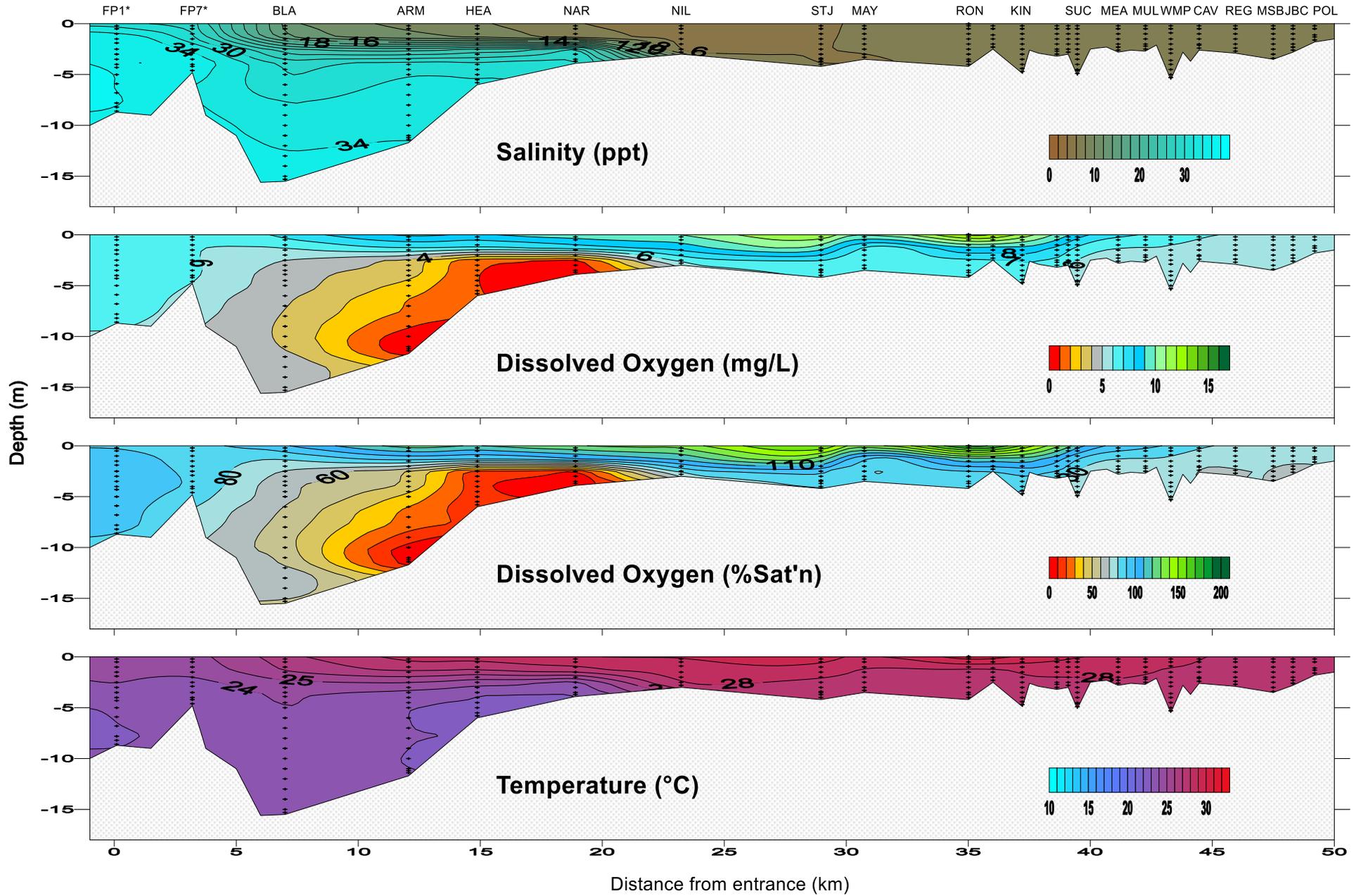
Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish and well oxygenated to oxygenated throughout all sites. Water temperature ranged from 27.2 to 30.4 °C.

Definitions:

Salinity – fresh <5ppt, brackish 5-25ppt, saline 25-35ppt, hypersaline >35ppt

Dissolved oxygen – well oxygenated >6 mg/L
oxygenated >4 to 6 mg/L, low oxygen >2 to 4 mg/L,
hypoxic >0.5 to 2.0 mg/L, near anoxic <0.5 mg/L

Swan River Estuary - Physical-chemical Profile - 7th March 2017



*Data for sites FP1 (Harbour entrance) and FP7 (Fremantle Bridge) are supplied courtesy of the Fremantle Port Authority