



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

**by  
Water Science Branch, Department of Water**

Date: Monday 23<sup>rd</sup> February 2015

Weather & tide conditions: Conditions were fine 0% cloud cover and predominantly an east to south easterly breeze of up to 10 knots. The predicted tides at Guildford were 0.65 m (low tide) at 07:13 and 0.91 m (high tide) at 15:23. Perth recorded 0.0 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Lower Swan/Canning Estuary (FPI to NAR): The Lower Swan Estuary was hypersaline and well oxygenated throughout. Water temperature ranged from 23.3 to 24.3 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout from NIL to MAY, then brackish throughout at RON. Water was well oxygenated at the surface and well oxygenated to oxygenated on the bottom at all sites. Water temperature ranged from 24.3 to 26.2 °C.

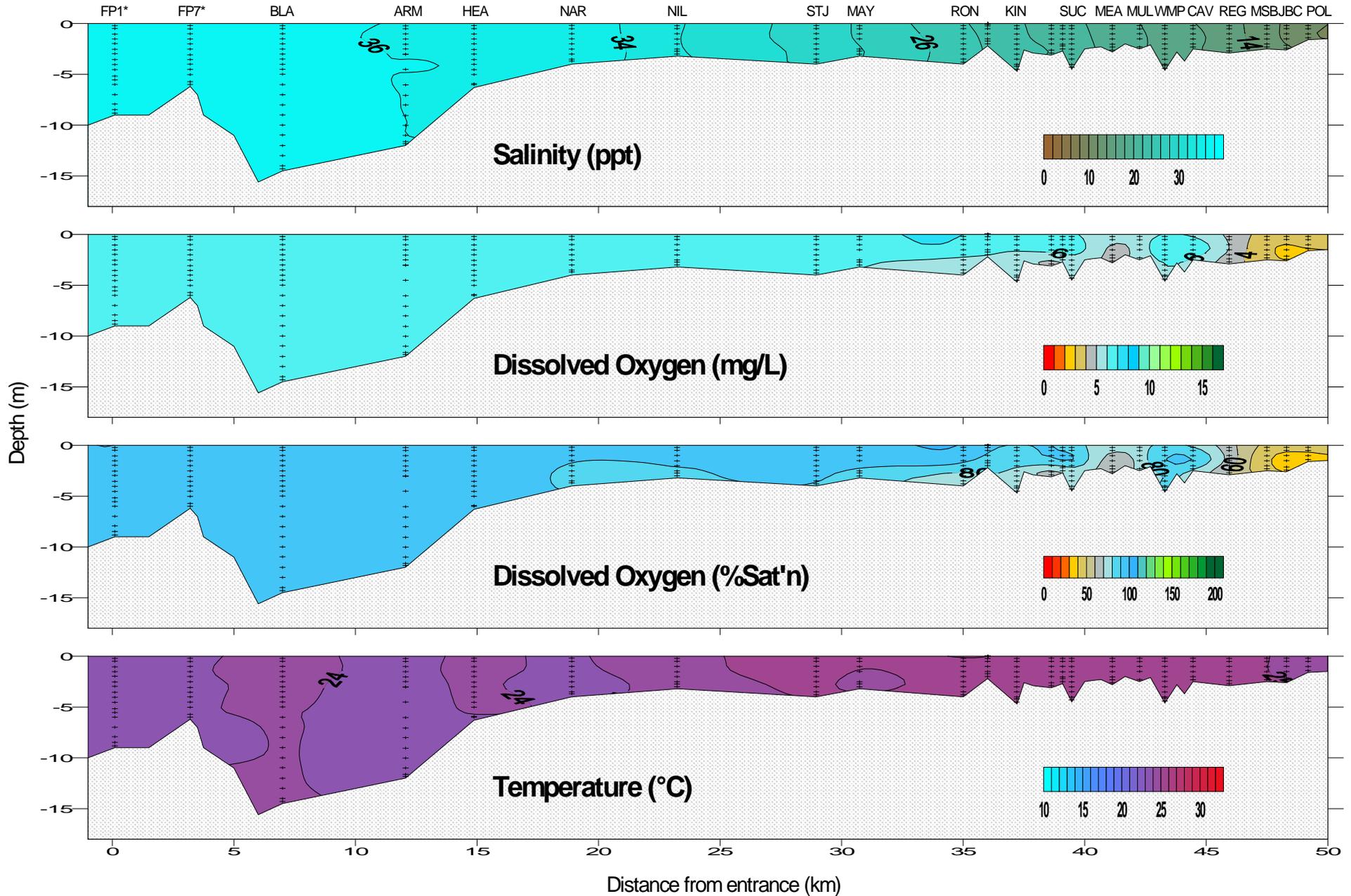
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated on the surface and oxygenated on the bottom from BWR10 to REG, with the exception of well oxygenated bottom water at CAV, then low in oxygen throughout from MSB to POL. Water temperature ranged from 24.3 to 26.3 °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 - 23rd February 2015



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