



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

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

Date: Monday 18<sup>th</sup> May 2015

Weather & tide conditions: Conditions were overcast with 70 to 100% cloud cover and a south westerly breeze of up to 8 knots. The predicted tides at Guildford were 1.20 m (high tide) at 11:46 and 0.72 m (low tide) at 22:02. Perth recorded 36.0 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham 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 at all sites with the exception of saline surface water at FP2.1, HEA and NAR. Water temperature ranged from 16.0 to 18.3 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout at NIL, then brackish on the surface and saline on the bottom from STJ to RON. Water was well oxygenated throughout at all sites with the exception of oxygenated bottom water at RON. Water temperature ranged from 16.0 to 17.7 °C.

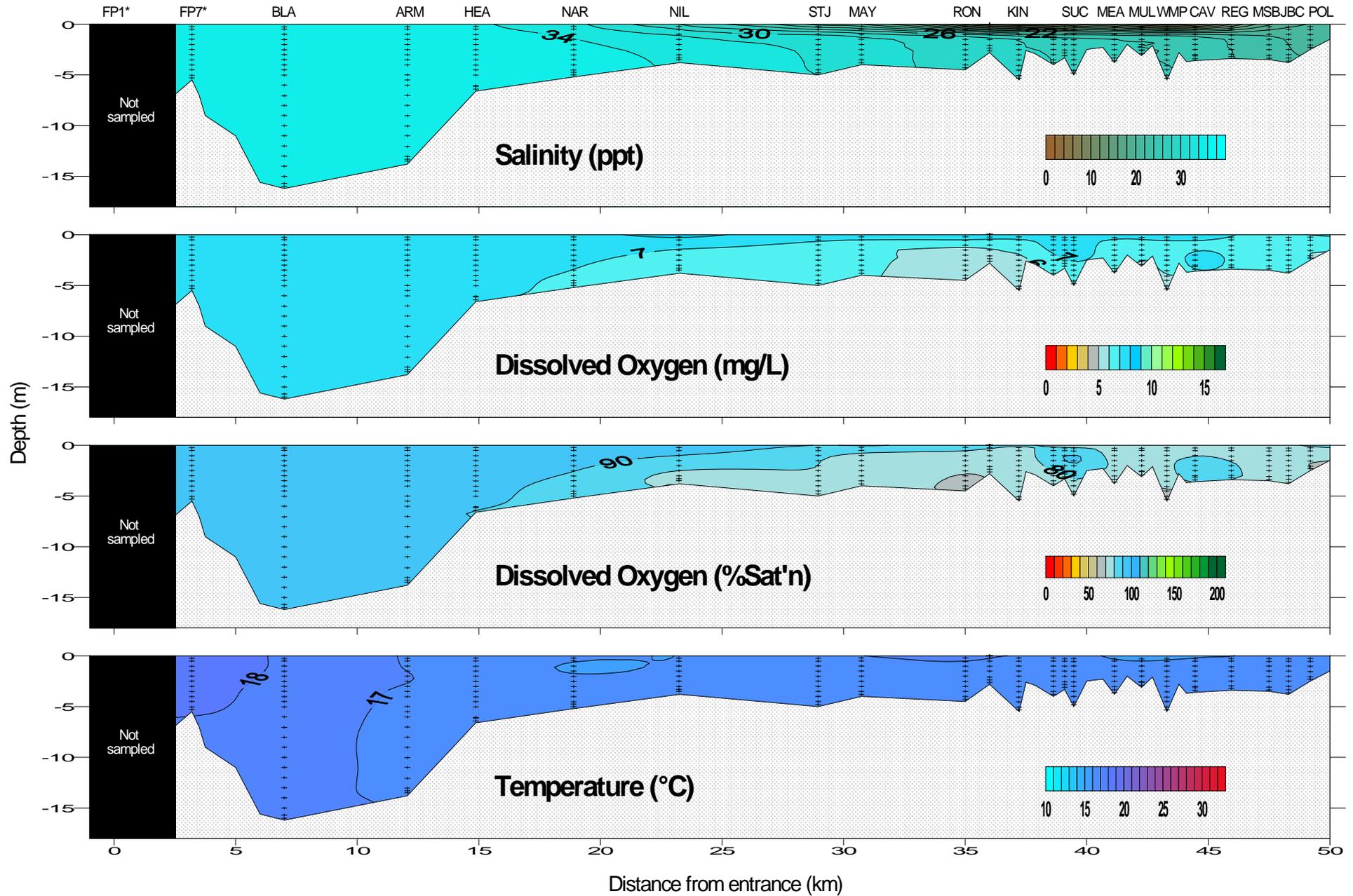
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish on the surface and saline on the bottom from BWR10 to CAV, then brackish throughout from REG to POL. Water was well oxygenated on the surface and oxygenated to well oxygenated on the bottom at all sites. Water temperature ranged from 15.6 to 17.0 °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 - 18th May 2015



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