



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

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

Date: Monday 15<sup>th</sup> June 2015

Weather & tide conditions: Conditions were fine with up to 5% cloud cover and an east to south easterly breeze of up to 9 knots. The predicted tides at Guildford were 1.23 m (high tide) at 10:41 and 0.72 m (low tide) at 21:19. Perth recorded 0.4 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 (FP1 to NAR): The Lower Swan Estuary was hypersaline at FP1, saline over hypersaline at FP7, then saline throughout from BLA to NAR. Water was well oxygenated throughout at all sites. Water temperature ranged from 15.8 to 18.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout at all sites. Surface water was well oxygenated at all sites, while bottom water was well oxygenated at NIL, oxygenated at MAY, and low in oxygen at STJ and RON. Water temperature ranged from 15.6 to 17.7 °C.

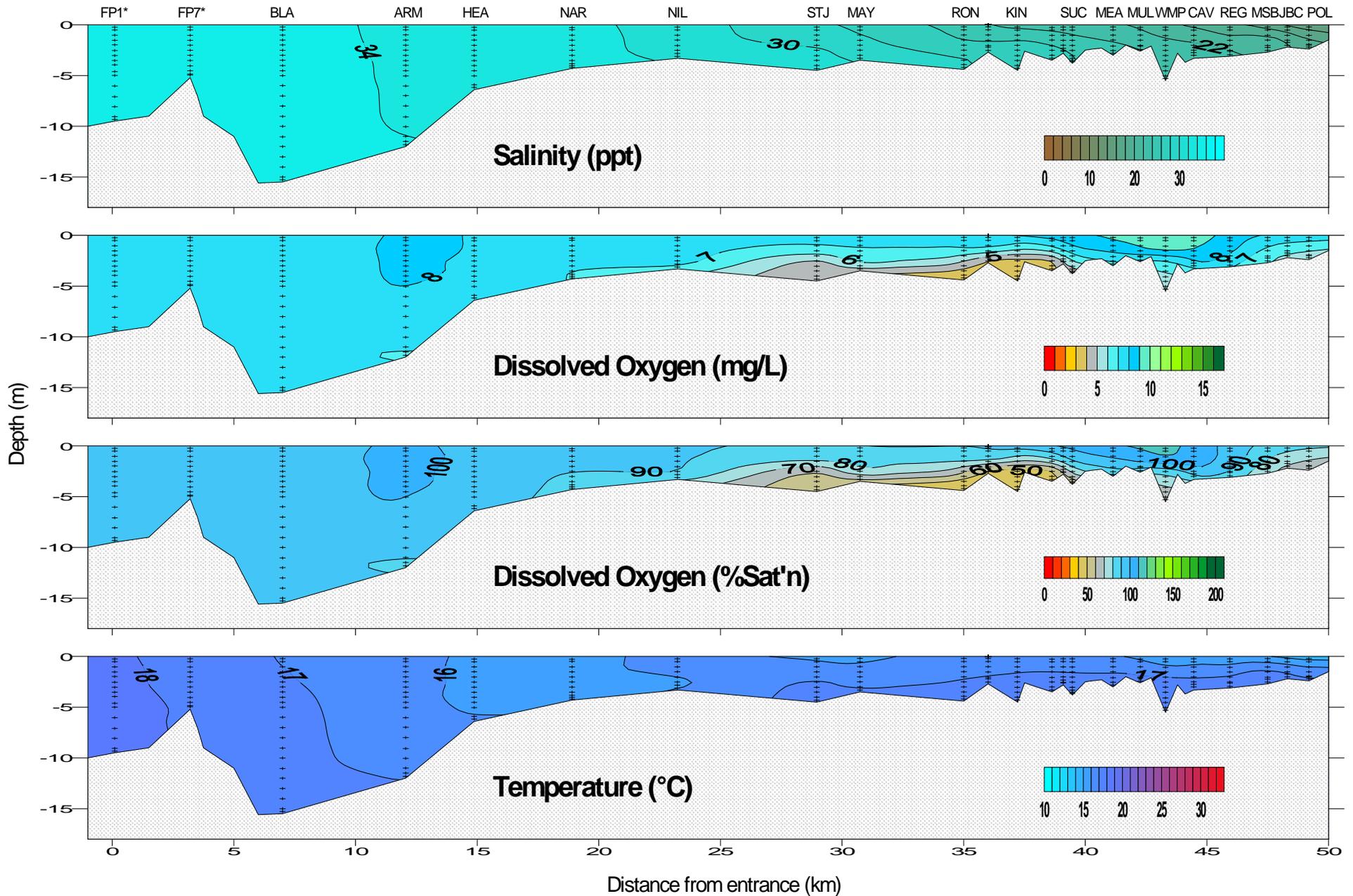
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout with the exception of saline bottom water from BWR10 to SUC. Water was well oxygenated to oxygenated at all sites except for low oxygenated bottom water from BWR10 to KMO. Water temperature ranged from 14.3 to 17.7 °C.

**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 - 15th June 2015



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