



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

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

Date: Monday 15<sup>th</sup> May 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a south west to north westerly breeze of up to 28 knots. The predicted tides at Guildford were 1.17 m (high tide) at 13:37 and 0.73 m (low tide) at 00:02. Perth recorded 5.2 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 (BLA to NAR): The Lower Swan Estuary was saline to hypersaline throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 19.0 to 20.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline from NIL to MAY and brackish at RON. Water was well oxygenated to oxygenated at all sites with the exception of low oxygen bottom water at RON. Water temperature ranged from 18.2 to 19.6 °C.

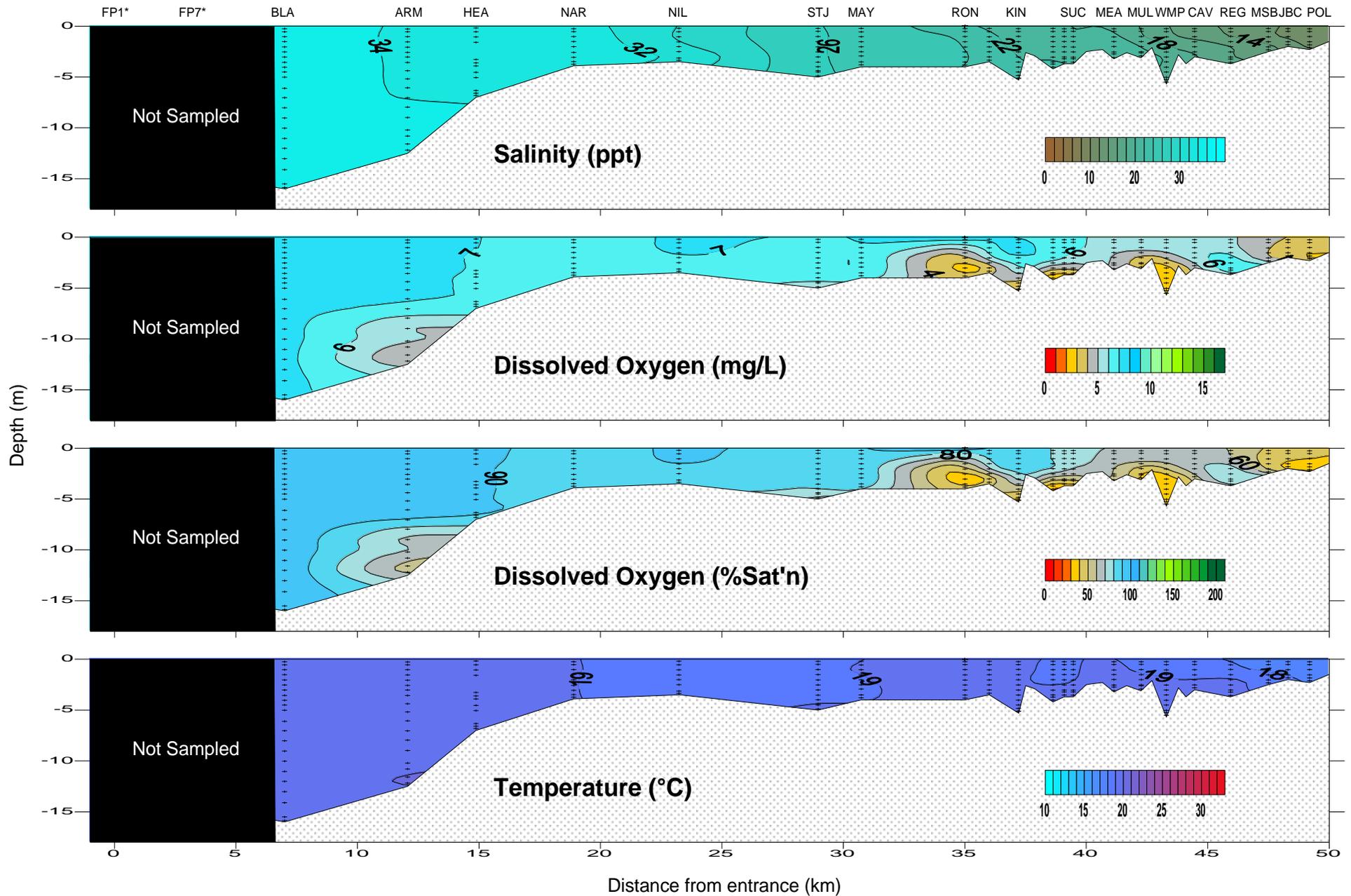
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Surface water was well oxygenated to oxygenated from BWR10 to REG and bottom water was anoxic at BWR10, low in oxygen at KIN, KMO, MULB FARM and WMP and well oxygenated to oxygenated from VIT to MEA and at CAV and REG. Water was low in oxygen throughout MSB to POL. Water temperature ranged from 17.3 to 19.9 °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 May 2017



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