



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

by  
Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 16<sup>th</sup> April 2018

Weather & tide conditions: Conditions were fine with up to 80% cloud cover and an easterly breeze of up to 11 knots. The predicted tides at Guildford were 1.04 m (high tide) at 12:30 and 0.78 m (low tide) at 19:51. Perth recorded 0.6 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 hyper-saline to saline throughout. Water well oxygenated throughout all sites. Water temperature ranged from 20.6 to 21.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline from NIL to MAY and brackish over saline at RON. Water was well oxygenated to oxygenated through all sites. Water temperature ranged from 20.9 to 22.3 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout all sites with the exception of low oxygen bottom water at POL. Water temperature ranged from 20.3 to 21.8 °C.

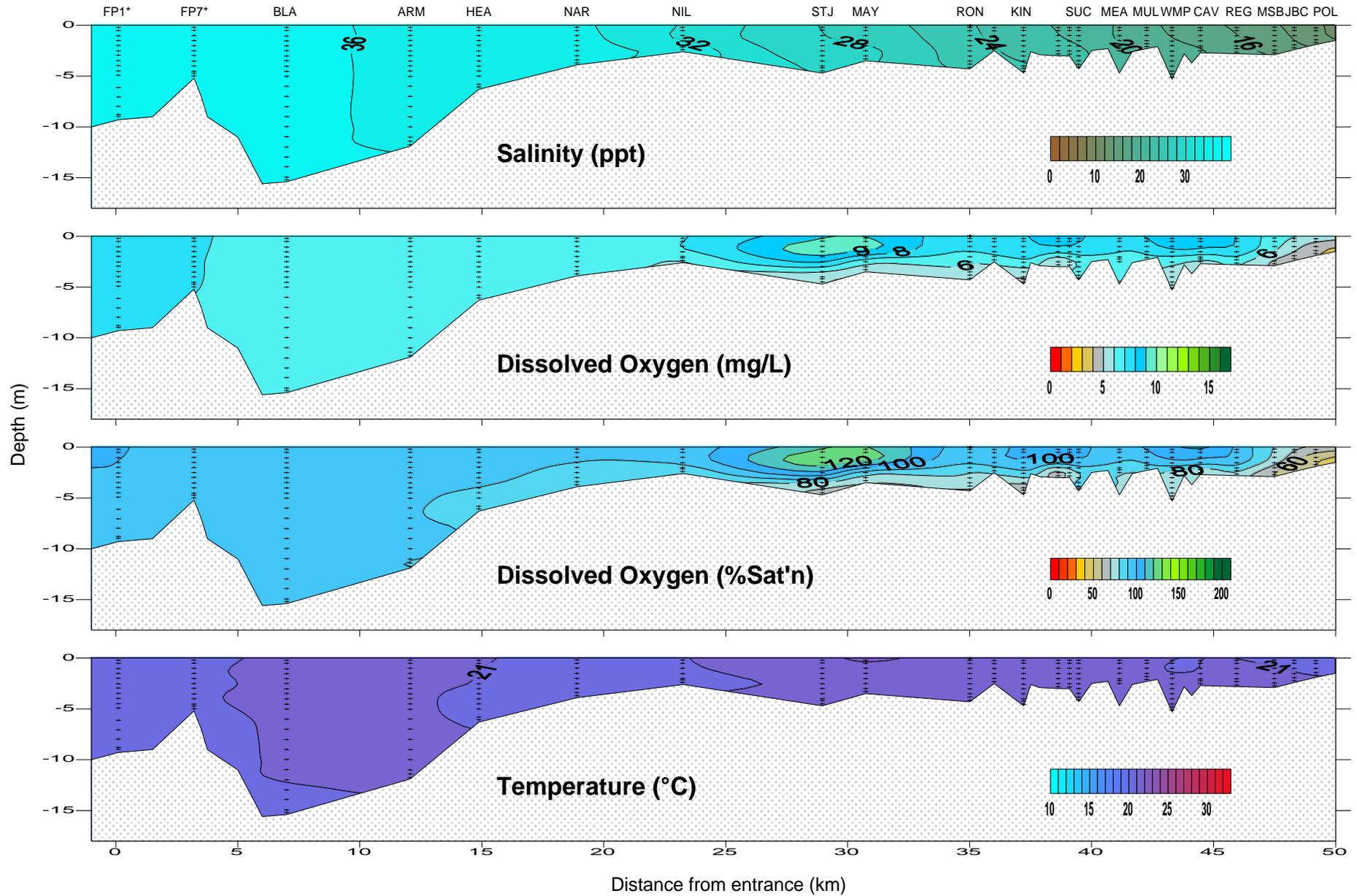
**Definitions:**

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 - 16th April 2018

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