



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

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 13<sup>th</sup> November 2017

Weather & tide conditions: Conditions were fine with up to 5% cloud cover and a south westerly breeze of up to 10 knots. The predicted tides at Guildford were 0.75 m (high tide) at 05:09 and 0.62 m (low tide) at 14:06. Perth recorded 2.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was operational the week prior to sampling, while the Caversham oxygenation plant was not.

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary was saline from FP1 to HEA and brackish on the surface over saline bottom water at NAR. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 19.8 to 25.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout NIL, while surface water was well oxygenated and bottom water was near anoxic from STJ to RON. Water temperature ranged from 25.2 to 29.3 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Surface water was well oxygenated to oxygenated from BWR10 to SUC while bottom water was near anoxic from BWR10 to KIN and at SUC, oxygenated at KMO and low in oxygen at VIT. Water was well oxygenated to oxygenated from MEA to POL. Water temperature ranged from 25.0 to 29.1 °C.

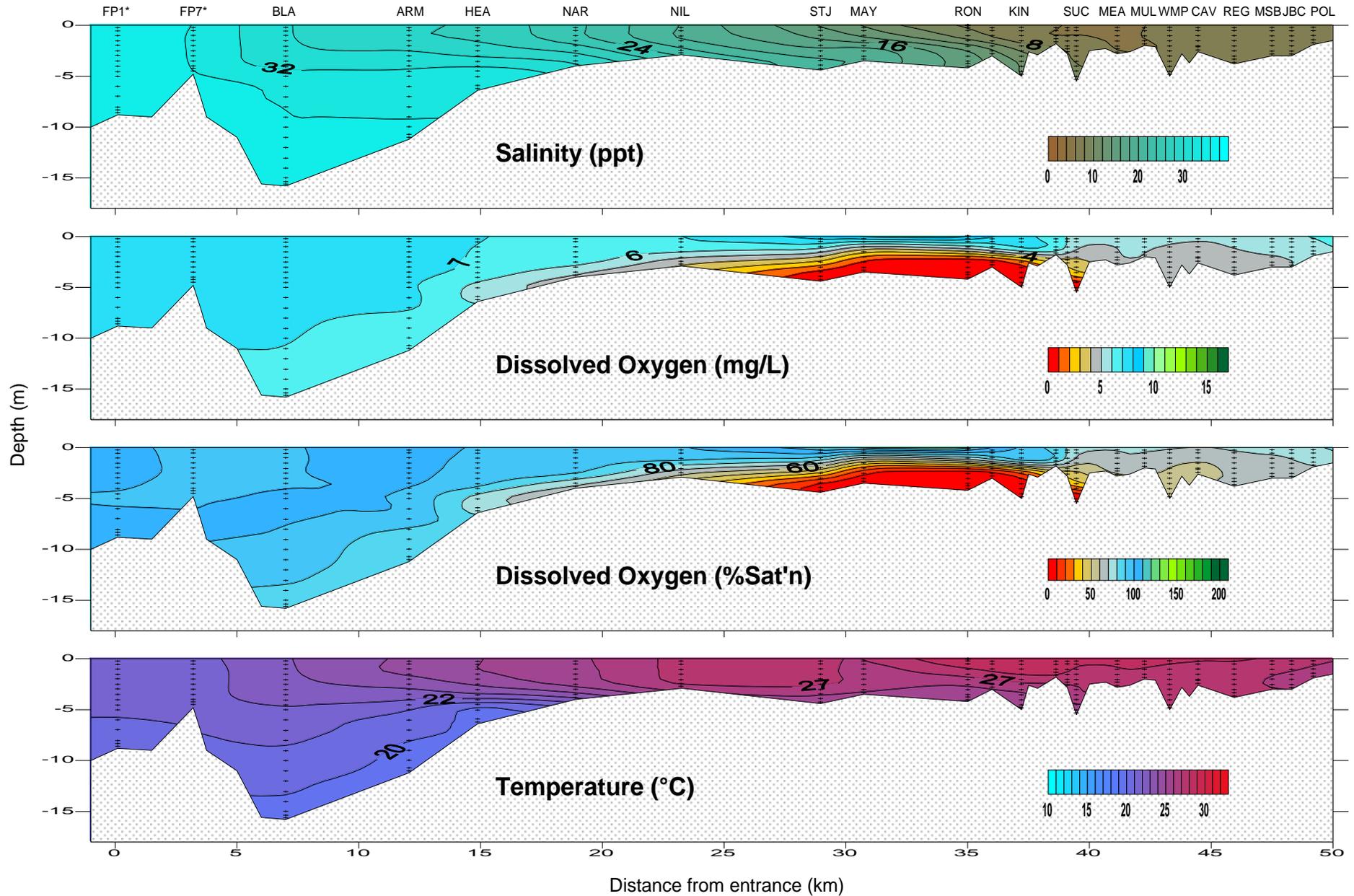
**Definitions:**

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 - 13th November 2017

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