



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

by  
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 10<sup>th</sup> December 2018

Weather & tide conditions: Conditions were fine and with up to 10% cloud cover and a predominantly south-westerly breeze of up to 9 knots. The predicted tides at Guildford were 0.51 m (low tide) at 10:30 and 1.02 m (high tide) at 12:34. Perth recorded 1.6 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 HEA): The Lower Swan Estuary was hypersaline to saline throughout. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 20.6 to 24.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout NIL and STJ. Surface water was well oxygenated at MAY and RON while bottom water was low in oxygen. Water temperature ranged from 25.5 to 29.1 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout. Water was mostly well oxygenated to oxygenated with the exception of bottom water that was low in oxygen at KIN and BWR10. Water temperature ranged from 25.4 to 28.5 °C.

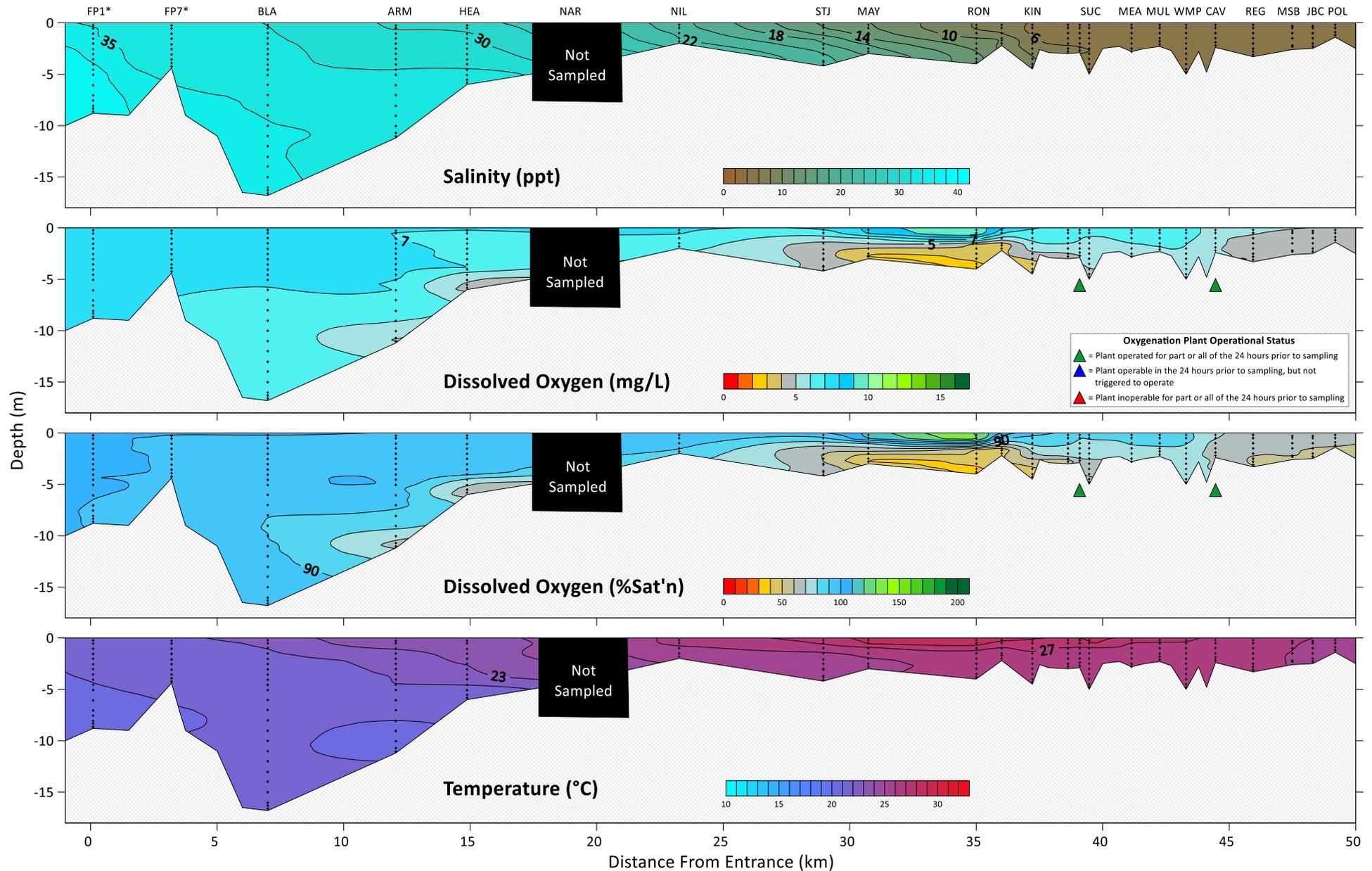
**Definitions:**

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 - 10th December 2018

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