



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

by  
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 20<sup>th</sup> August 2018

Weather & tide conditions: Conditions were fine with up to 95% cloud cover and a north-easterly breeze of up to 13 knots. The predicted tides at Guildford were 0.98 m (high tide) at 06:32 and 0.64 m (low tide) at 19:03. Perth recorded 25.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were not operational the week prior to sampling.

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary was saline over hypersaline at FP1, brackish over hypersaline at FP7 and fresh over saline from BLA to NAR. Water temperature ranged from 15.2 to 17.0 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh throughout. Water was well oxygenated at all sites. Water temperature ranged from 14.5 to 15.4 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout. Water was well oxygenated at all sites. Water temperature ranged from 14.0 to 15.0 °C.

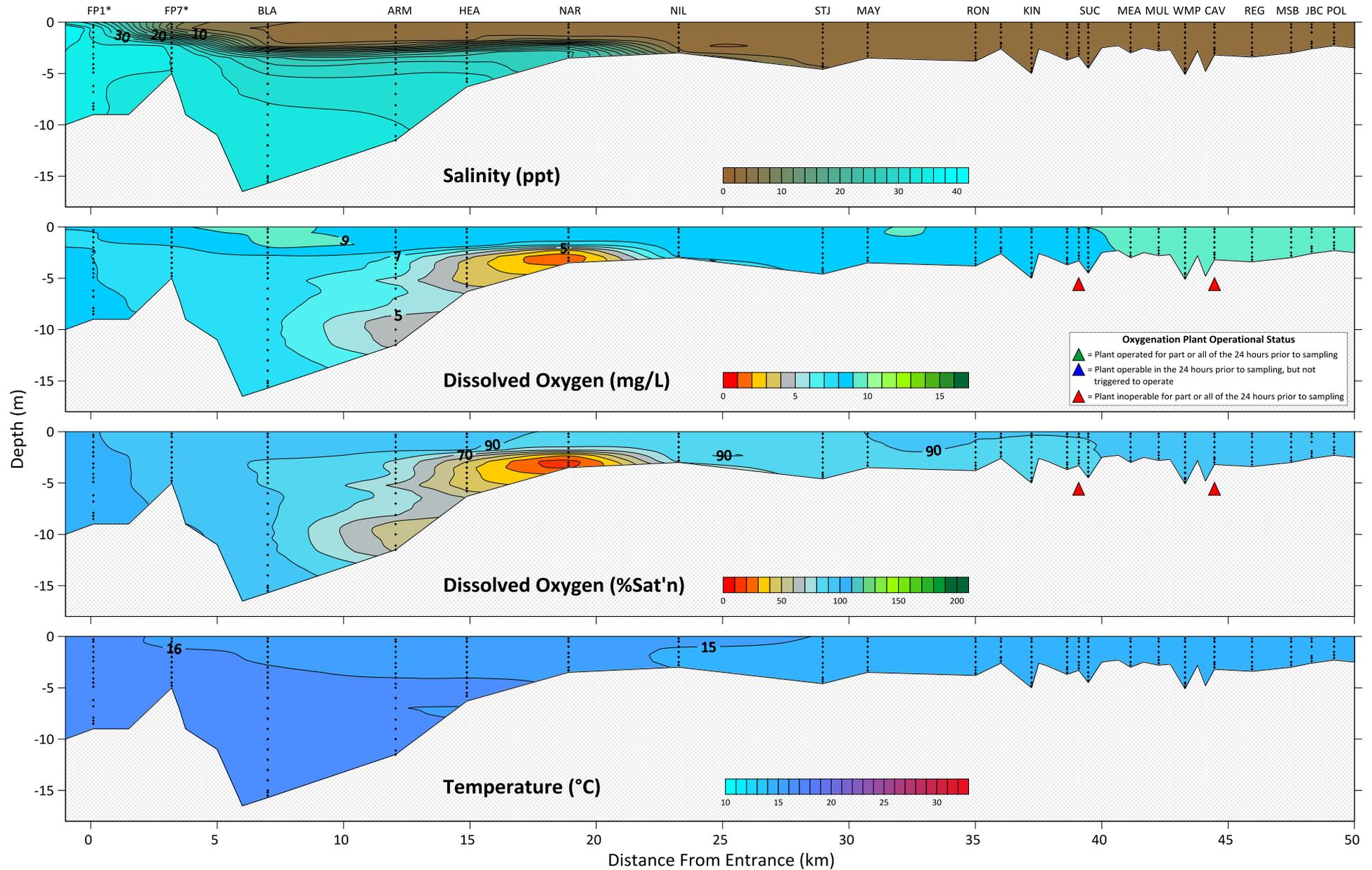
**Definitions:**

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 - 20th August 2018

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