



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

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 2nd October 2017

Weather & tide conditions: Conditions were fine with up to 2% cloud cover and a south westerly breeze of up to 13 knots. The predicted tides at Guildford were 0.91 m (high tide) at 07:56 and 0.56 m (low tide) at 15:40. Perth recorded 12.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary was hypersaline to saline from FP1 to FP7 and brackish over saline from BLA to NAR. Water was mostly well oxygenated to oxygenated throughout with the exception of low in oxygen bottom water at NAR. Water temperature ranged from 17.3 to 19.0 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was mostly well oxygenated to oxygenated at all sites with the exception of near anoxic bottom water at STJ. Water temperature ranged from 17.0 to 19.4 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was mostly brackish throughout with the exception of fresh surface water at KIN and KMO. Water was well oxygenated at all sites. Water temperature ranged from 16.2 to 19.4 °C.

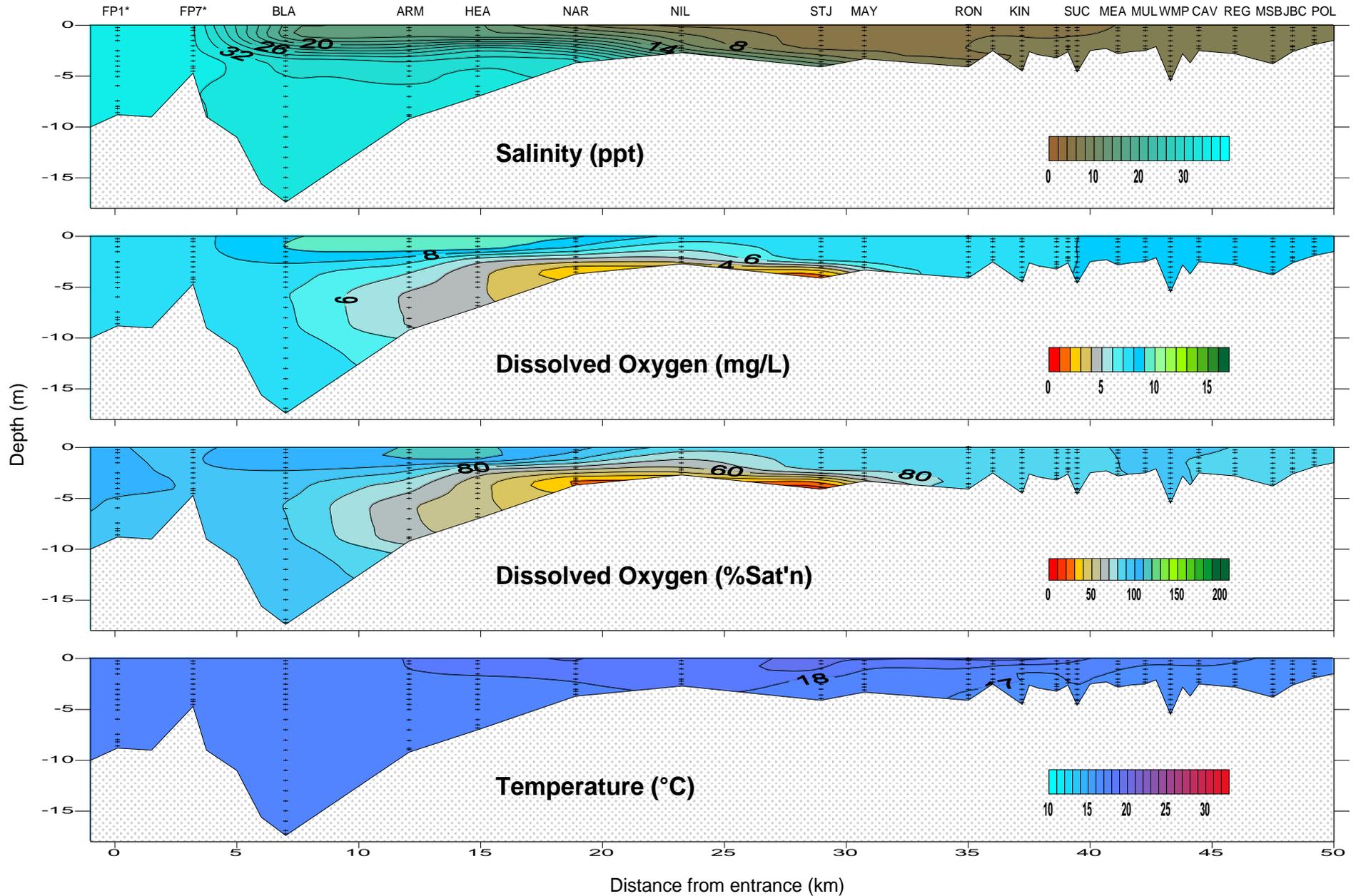
Definitions:

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 - 2nd October 2017

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