



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 3rd April 2018

Weather & tide conditions: Conditions were fine with up to 2% cloud cover and a predominantly north easterly breeze of up to 3 knots. The predicted tides at Guildford were 0.73 m (low tide) at 05:37 and 1.02 m (high tide) at 13:43. Perth recorded 0 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 hypersaline to saline throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 21.5 to 22.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline from NIL to MAY and brackish at RON. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 22.6 to 24.8 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was mostly well oxygenated to oxygenated throughout all sites with the exception of bottom water that was low in oxygen at JBC and POL. Water temperature ranged from 22.8 to 24.4 °C.

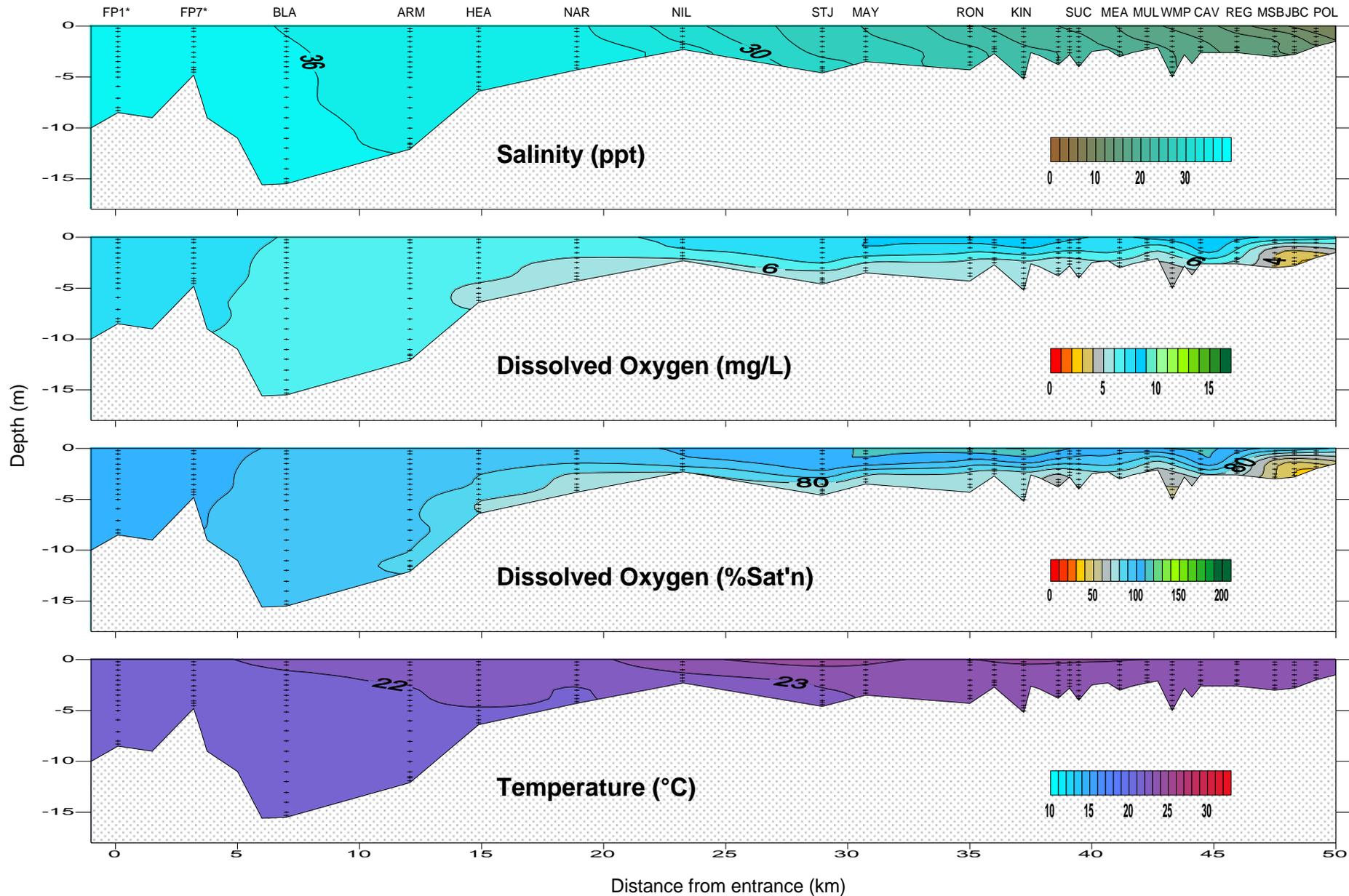
Definitions:

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 - 3rd April 2018

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