



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 30th April 2018

Weather & tide conditions: Conditions were fine with up to 85% cloud cover and a predominantly northerly breeze of up to 10 knots. The predicted tides at Guildford were 0.82 m (low tide) at 04:11 and 1.10 m (high tide) at 12:12. 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 (FP1 to NAR): The Lower Swan Estuary was hypersaline throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 20.3 to 20.8 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout. Water was well oxygenated to oxygenated throughout NIL and STJ while surface water was well oxygenated to oxygenated from MAY to RON and bottom water was low in oxygen. Water temperature ranged from 20.4 to 22.1 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish over saline from BWR10 to VIT and brackish from SUC to POL. Surface water was well oxygenated to oxygenated at all sites while bottom water was low in oxygen from BWR10 to SUC and from MSB to POL and well oxygenated to oxygenated from MEAD to REG. Water temperature ranged from 19.8 to 21.5 °C.

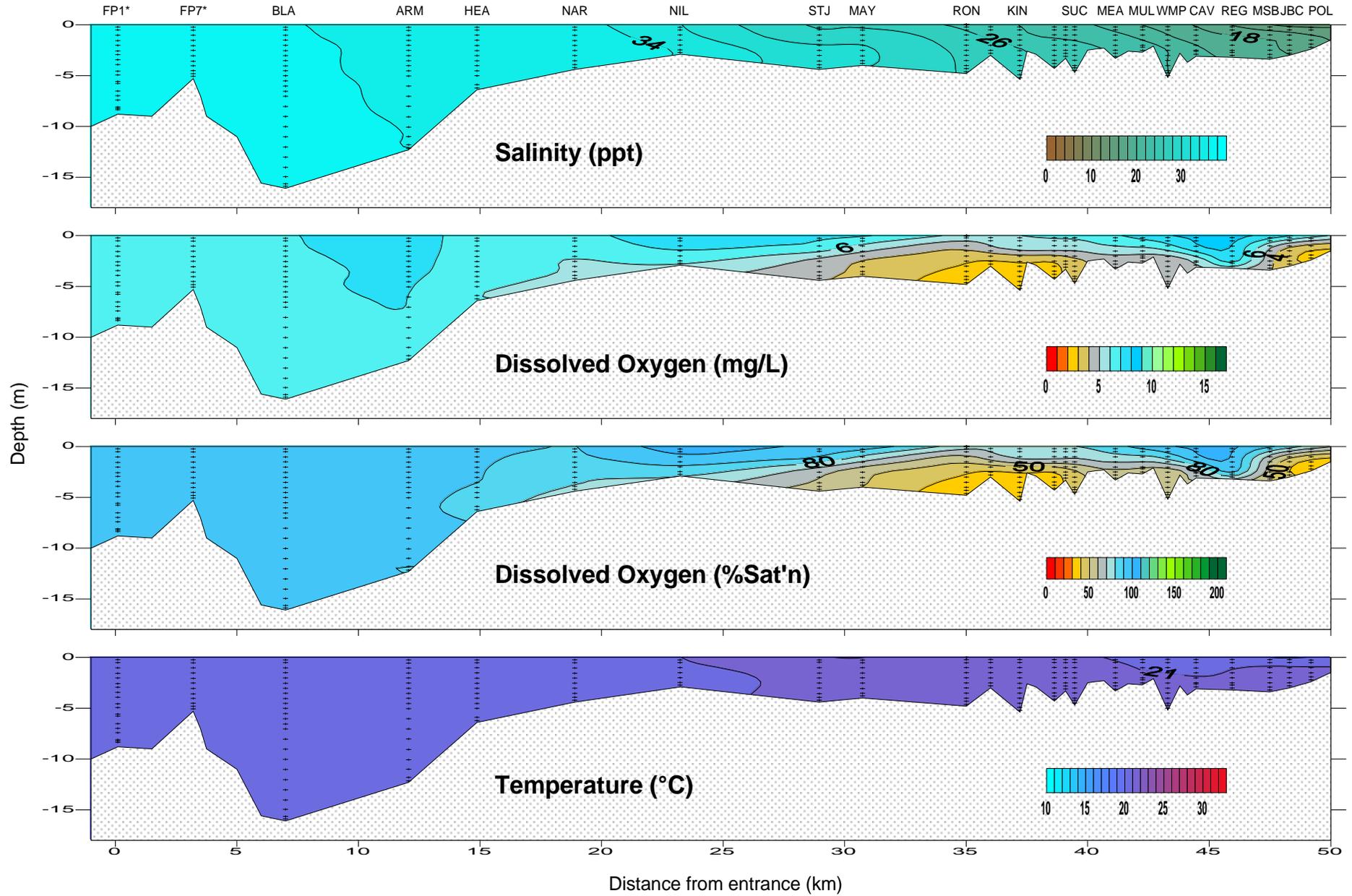
Definitions:

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 - 30th April 2018

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