



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 30th October 2017

Weather & tide conditions: Conditions were fine with 0% cloud cover and an easterly breeze of up to 4 knots. The predicted tides at Guildford were 0.81 m (high tide) at 05:39 and 0.62 m (low tide) at 15:47. Perth recorded 7.8 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 hypersaline to saline from FP1 to ARM and brackish over saline from HEA to NAR. Water was mostly well oxygenated to oxygenated throughout all sites with the exception of bottom water that was low in oxygen at NAR. Water temperature ranged from 18.2 to 19.5 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish from NIL to MAY and fresh over brackish at RON. Water was well oxygenated throughout NIL while surface water was well oxygenated and bottom water was near anoxic from STJ to RON. Water temperature ranged from 20.1 to 24.2 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish at BWR10, fresh over brackish from KIN to SUC and brackish from MEA to POL. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 19.6 to 23.8 °C.

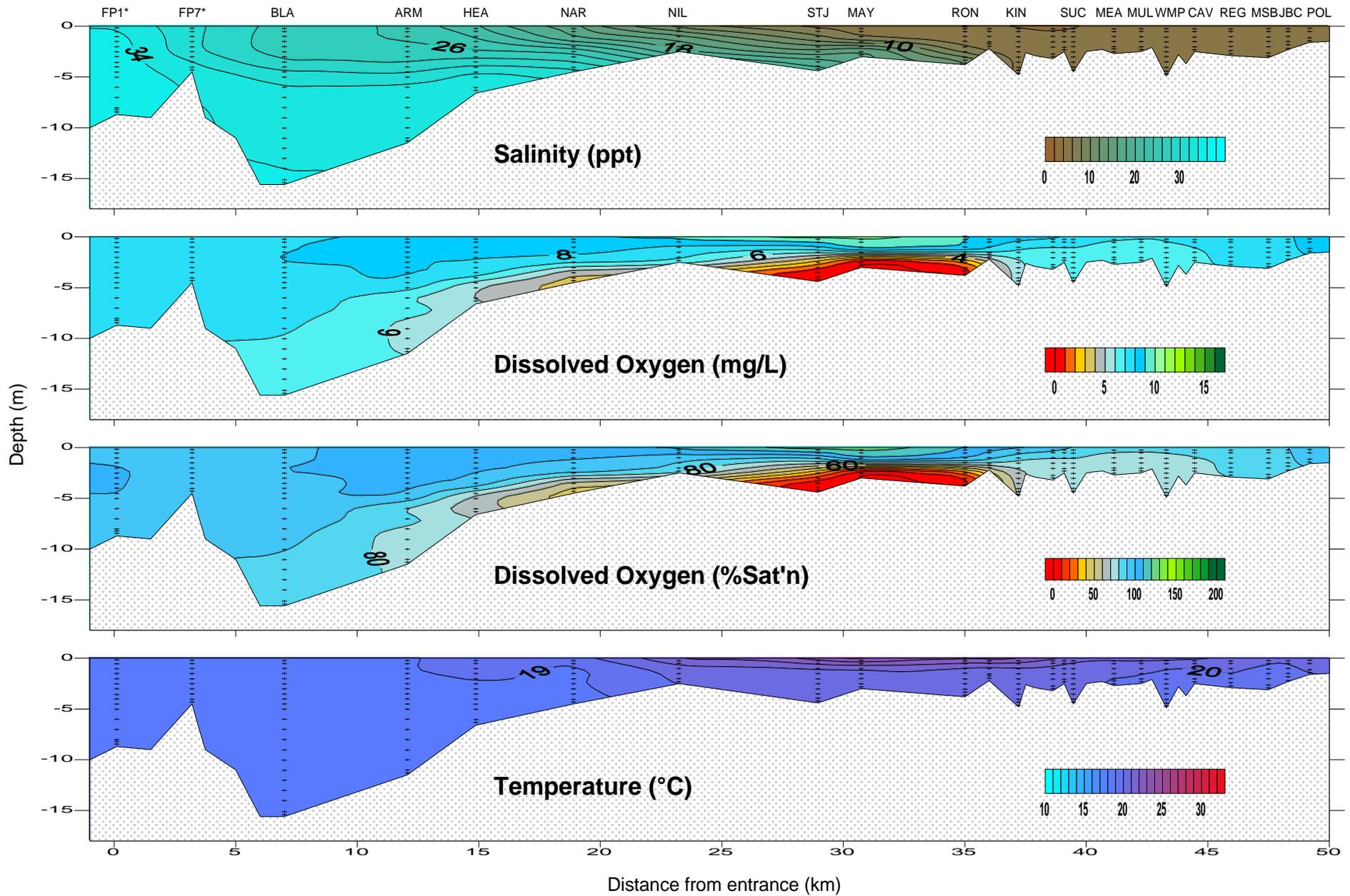
Definitions:

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 October 2017

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