



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 10th July 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and an east to north easterly breeze of up to 8 knots. The predicted tides at Guildford were 1.20 m (high tide) at 12:04 and 0.72 m (low tide) at 22:06. Perth recorded 33.6 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, with the exception of brackish surface water at NAR. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 13.5 to 16.9 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish over saline at all sites, with the exception of RON which was brackish throughout. Surface water was well oxygenated at all sites, bottom water was well oxygenated at NIL and hypoxic to near anoxic from STJ to RON. Water temperature ranged from 13.3 to 15.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Surface water was well oxygenated at all sites, bottom water was hypoxic to near anoxic from BWR10 to KMO, low in oxygen at VIT and SUC and well oxygenated from MEA to POL. Water temperature ranged from 11.5 to 16.1 °C.

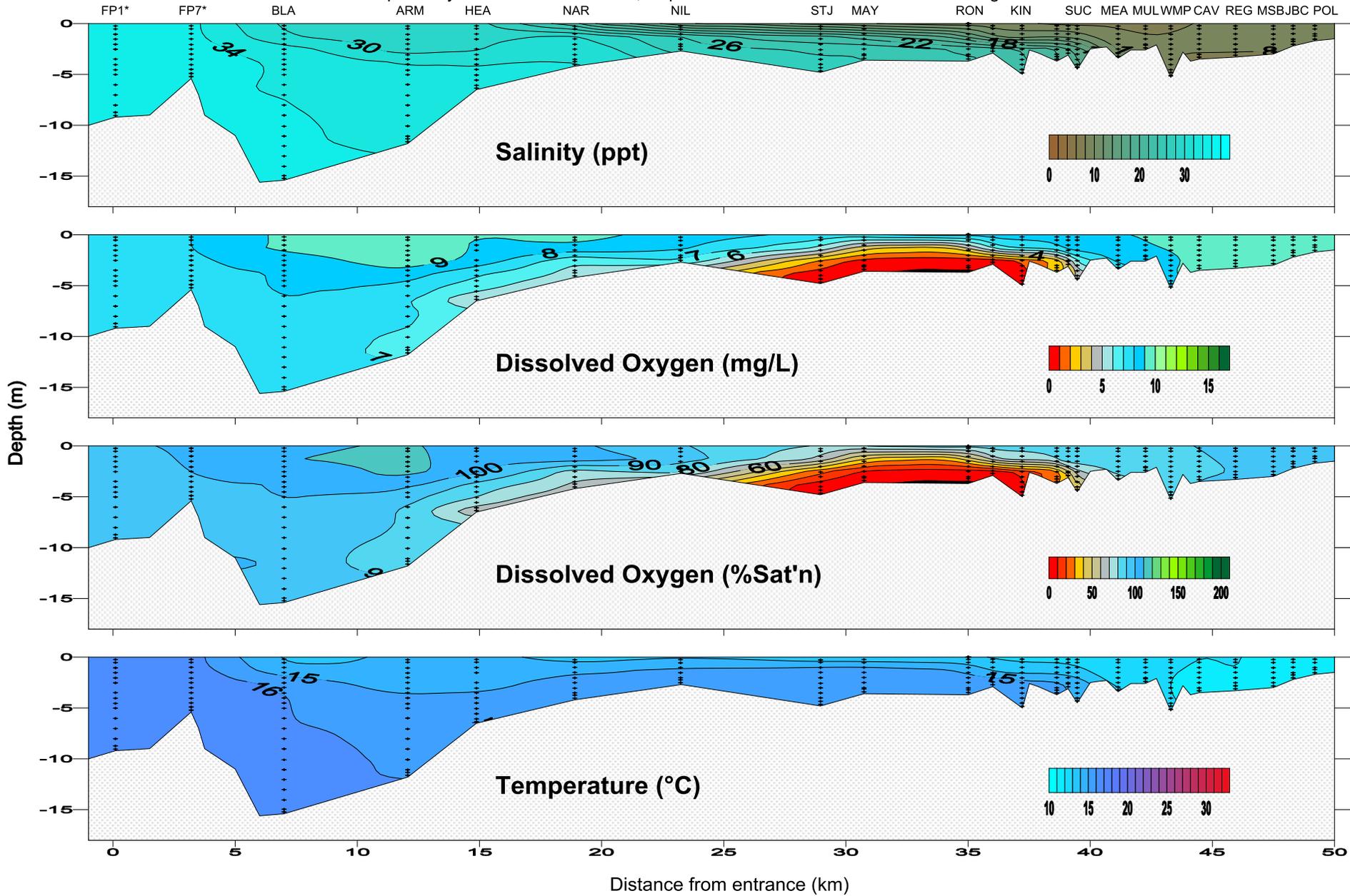
Definitions:

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 - 10th July 2017

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