



Environmental Monitoring and Reporting
Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Tuesday 2nd June 2015

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a south westerly breeze of up to 10 knots. The predicted tides at Guildford were 1.23 m (high tide) at 11:22 and 0.75 m (low tide) at 21:17. 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 at FP7, then saline throughout from BLA to NAR. Water was well oxygenated throughout at all sites with the exception of oxygenated bottom water at HEA and NAR. Water temperature ranged from 15.6 to 18.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline and well oxygenated throughout at all sites with the exception of oxygenated bottom water at STJ, MAY and RON. Water temperature ranged from 15.9 to 17.0 °C.

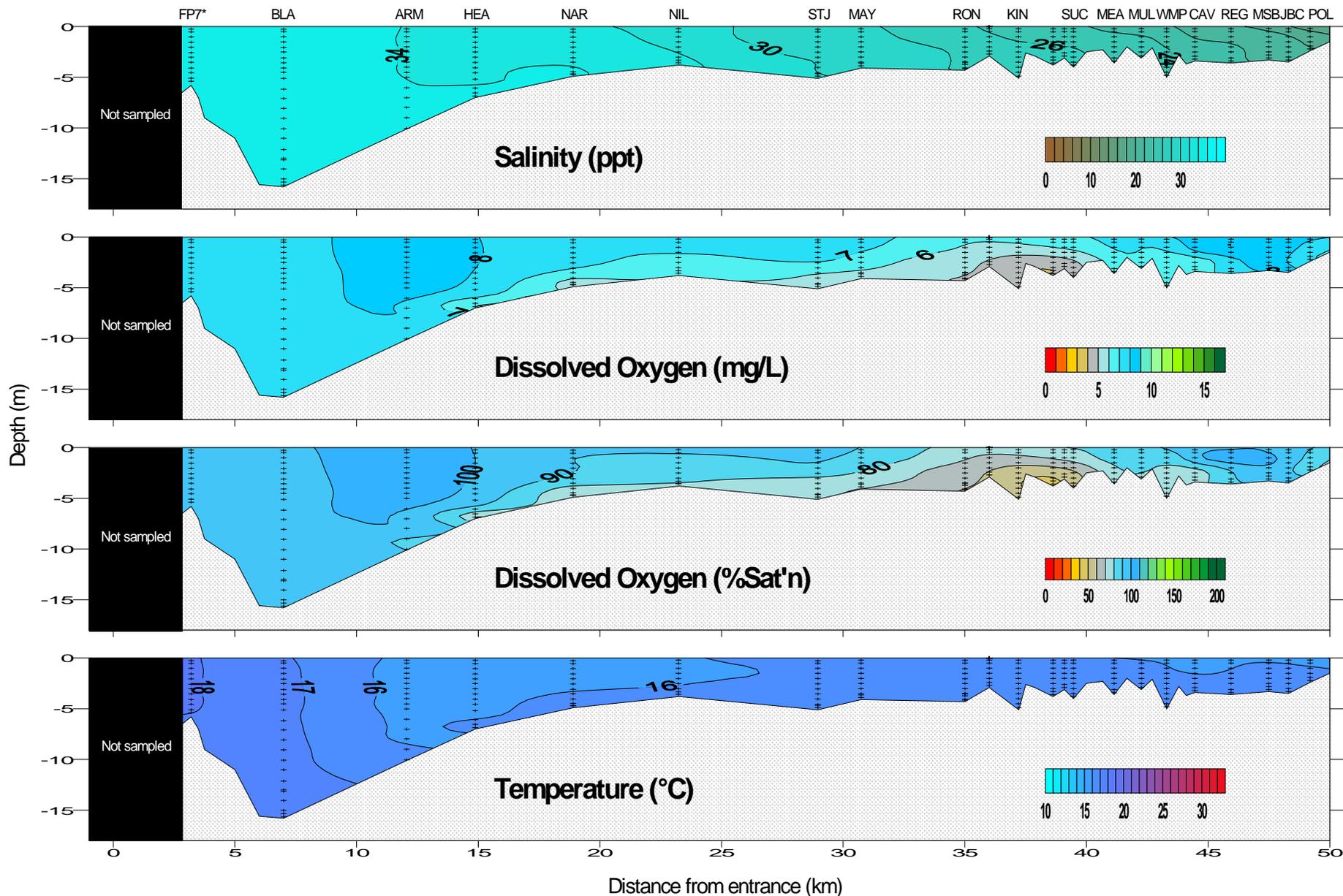
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout from MULB FARM to POL, brackish over saline at KMO, SUC, and MEA, saline throughout at BWR10, KIN and VIT. Surface water was well oxygenated at all sites. Bottom water was well oxygenated from MEA to POL, oxygenated at BWR10, KIN, VIT and SUC, and low in oxygen at KMO. Water temperature ranged from 14.9 to 16.8 °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 - 2nd June 2015



*Data for FP7 (Fremantle Bridge) is supplied courtesy of the Fremantle Port Authority