



**Environmental Monitoring and Reporting
Swan River Estuary ~ Weekly profile**

**by
Water Science Branch, Department of Water**

Date: Tuesday 7th April 2015

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a predominantly north easterly breeze of up to 11 knots. The predicted tides at Guildford were 0.75 m (low tide) at 5:36 and 1.06 m (high tide) at 13:25. Perth recorded 9.0 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 and well oxygenated at all sampled sites. Water temperature ranged from 20.6 to 21.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout with the exception of hypersaline bottom water at NIL. Water was well oxygenated over oxygenated bottom water from NIL to MAY, and oxygenated throughout at RON. Water temperature ranged from 20.3 to 21.4 °C.

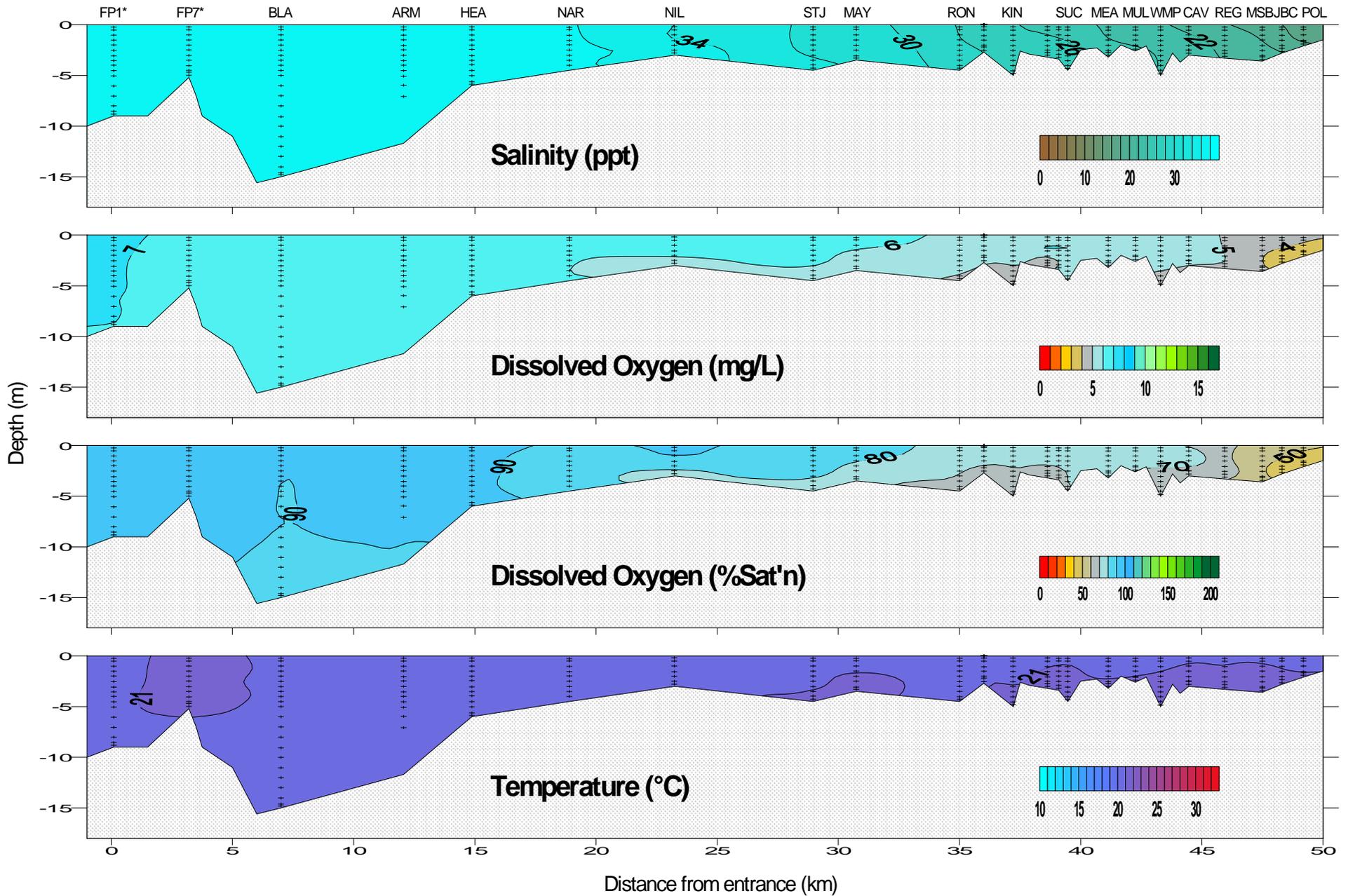
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline throughout from BWR10 to SUC, brackish over saline at MEA, then brackish throughout from MULB FARM to POL. Water was well oxygenated to oxygenated at all sites except for low oxygenated bottom water at JBC and POL. Water temperature ranged from 20.4 to 21.6 °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 - 7th April 2015



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