



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

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

Date: Monday 24th August 2015

Weather & tide conditions: Conditions were fine with up to 60% cloud cover and a north to north easterly breeze of up to 15 knots. The predicted tides at Guildford were 0.98 m (low tide) at 06:19 and 0.66 m (high tide) at 18:16. Perth recorded 59.4 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 saline to hypersaline at FP1 to FP7, and brackish over saline at BLA to NAR. Water was well oxygenated throughout FP1 to BLA, well oxygenated over oxygenated at ARM and HEA and well oxygenated over low oxygen at NAR. Water temperature ranged from 14.8 to 16.4 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout all sites. Water was well oxygenated on the surface at all sites and bottom water was oxygenated at NIL, hypoxic at STJ, low in oxygen at MAY and well oxygenated at RON. Water temperature ranged from 14.6 to 16.8 °C.

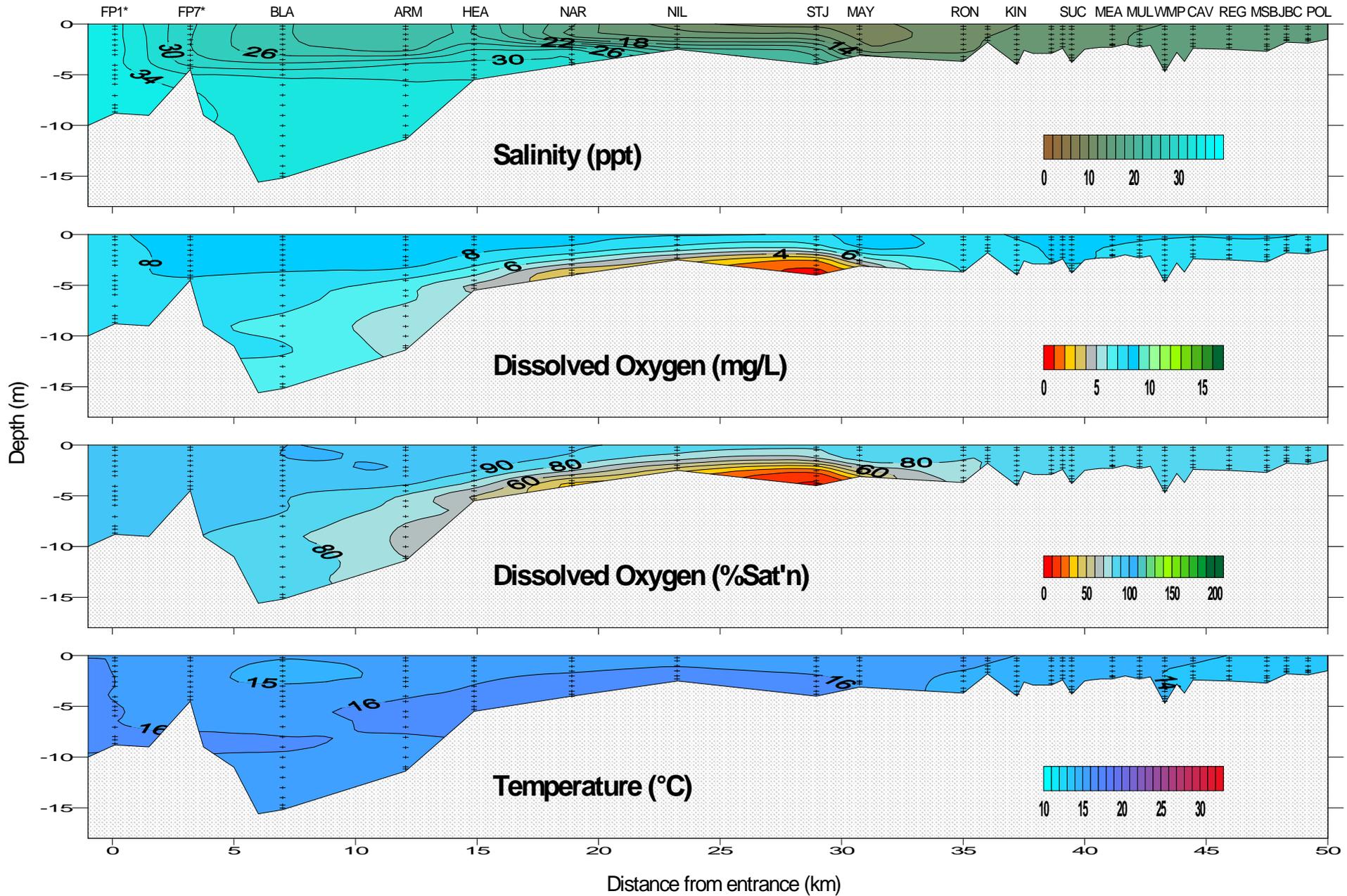
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish and well oxygenated throughout all sites. Water temperature ranged from 13.9 to 15.3 °C.

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 - 24th August 2015



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