



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

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

Date: Monday 19th October 2015

Weather & tide conditions: Conditions were fine with up to 80% cloud cover and a predominantly south easterly breeze of up to 8 knots. The predicted tides at Guildford were 0.94 m (high tide) at 02:16 and 0.56 m (low tide) at 13:24. Perth recorded 5.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was operational the week prior to sampling and the Caversham oxygenation plant was not operational the week prior to sampling.

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary was saline throughout all sites, with the exception of hypersaline bottom water at FP1. Water was well oxygenated to oxygenated throughout all sites, with the exception of low oxygen bottom water at HEA. Water temperature ranged from 19.2 to 21.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout all sites, with the exception of saline bottom water at NIL. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 22.0 to 23.6 °C.

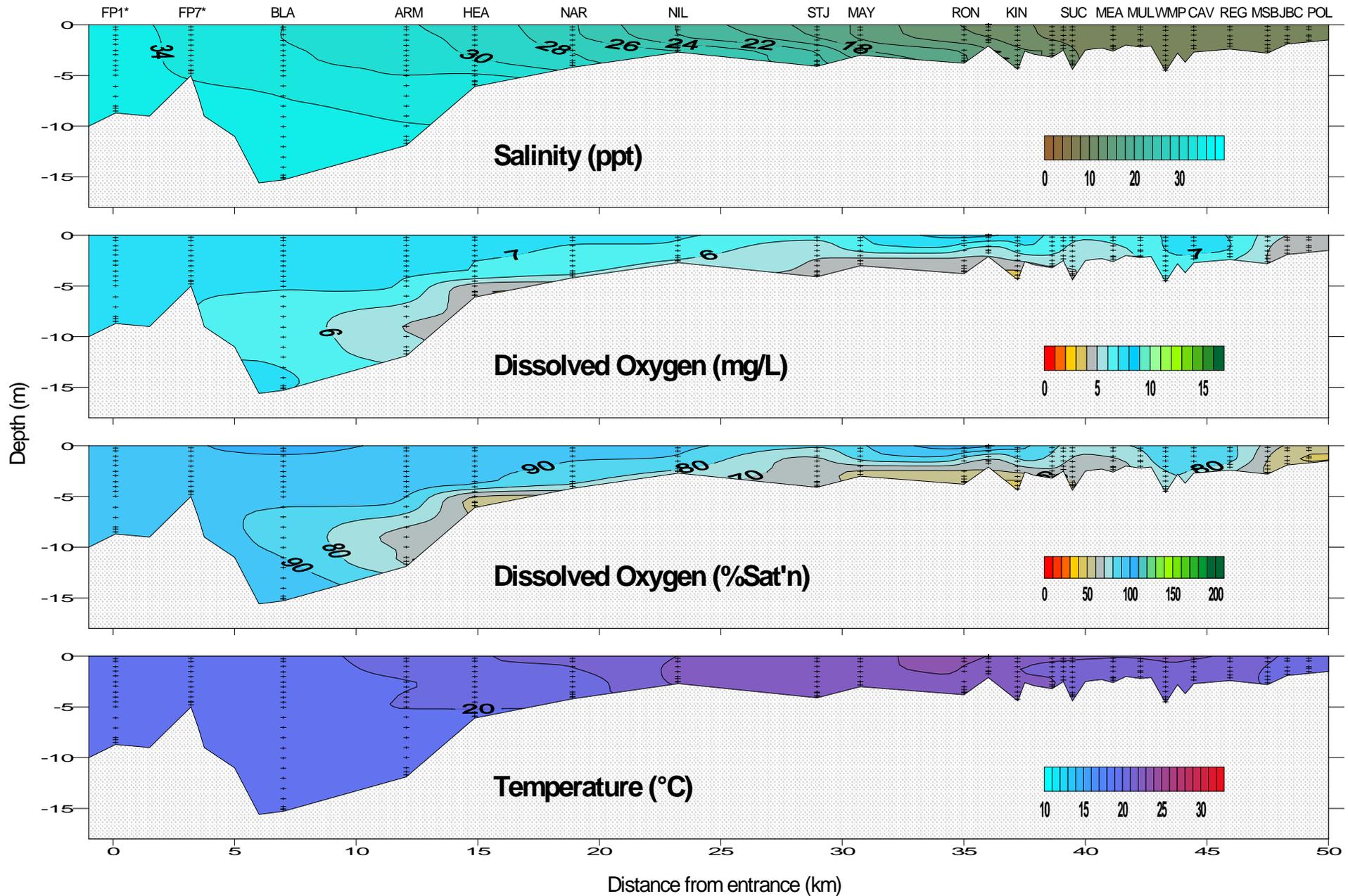
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout all sites. Water was well oxygenated to oxygenated at all sites, with the exception of low oxygen bottom water at KIN. Water temperature ranged from 20.5 to 22.8 °C.

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 - 19th October 2015



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