



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

by  
Water Science Branch, Department of Water

Date: Monday 8<sup>th</sup> August 2016

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a predominantly westerly breeze of up to 15 knots. The predicted tides at Guildford were 0.87m (high tide) at 03:19 and 0.83 m (low tide) at 07:22. Perth recorded 24 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 (FP7 to NAR): The Lower Swan Estuary was saline at FP7 and BLA, brackish over saline at HEA and brackish at NAR. Water was mostly well oxygenated with low oxygen bottom water at HEA and NAR. Water temperature ranged from 13.9 to 15.6 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was mostly well oxygenated with oxygenated bottom water at NIL and low oxygen bottom water at STJ. Water temperature ranged from 13.0 to 14.5 °C.

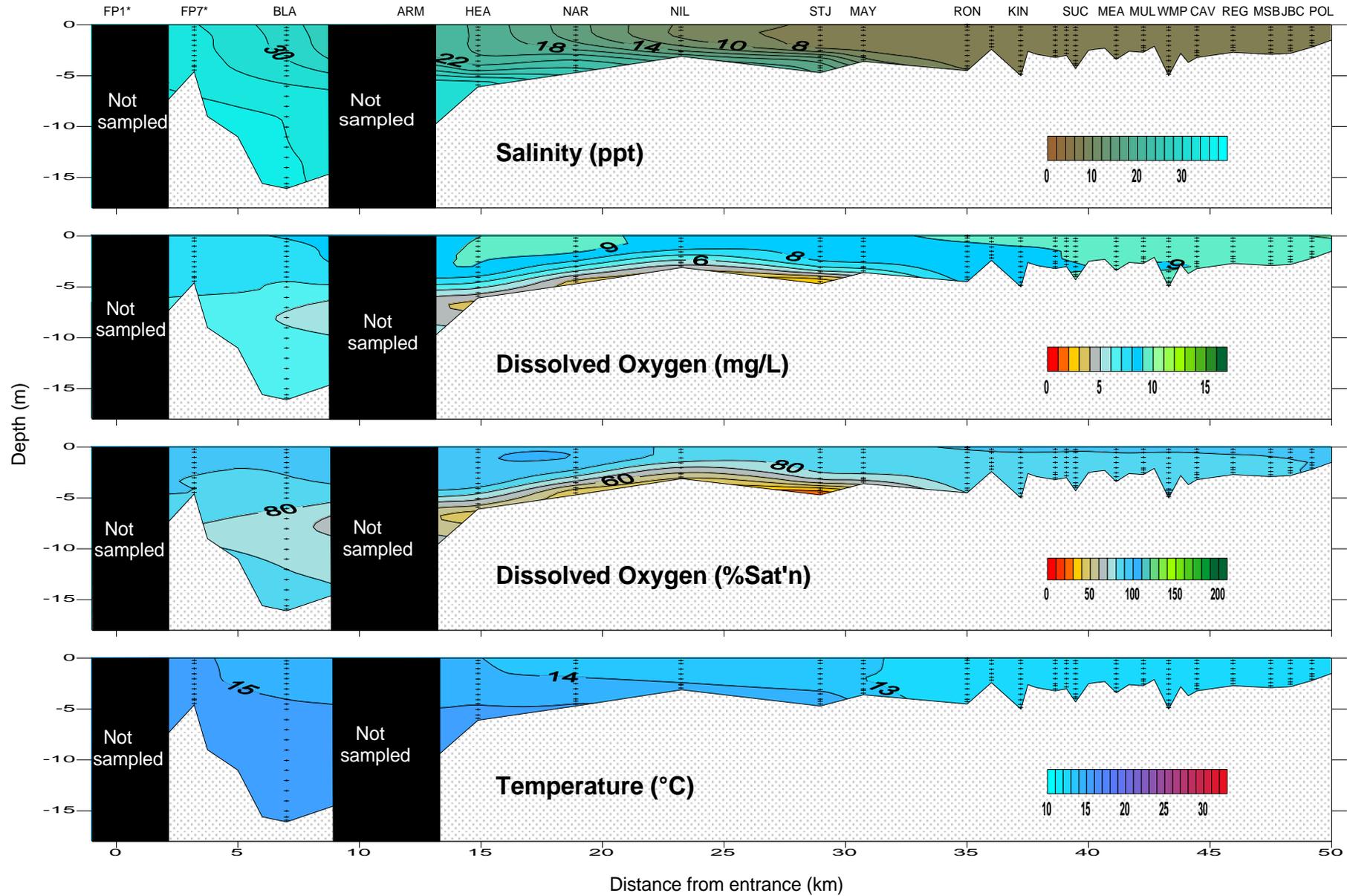
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish and well oxygenated throughout. Water temperature ranged from 12.1 to 12.9 °C.

**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 - 8th August 2016



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