



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

by
Water Science Branch, Department of Water

Date: Tuesday 3rd January 2017

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly north easterly breeze of up to 5 knots. The predicted tides at Guildford were 0.95 m (high tide) at 01:11 and 0.57 m (low tide) at 10:42. 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 hyper saline to saline throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 21.8 to 26.1° C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was saline at NIL and brackish at STJ and MAY. Surface water was well oxygenated over oxygenated bottom water at all sites. Water temperature ranged from 25.7 to 28.4 °C.

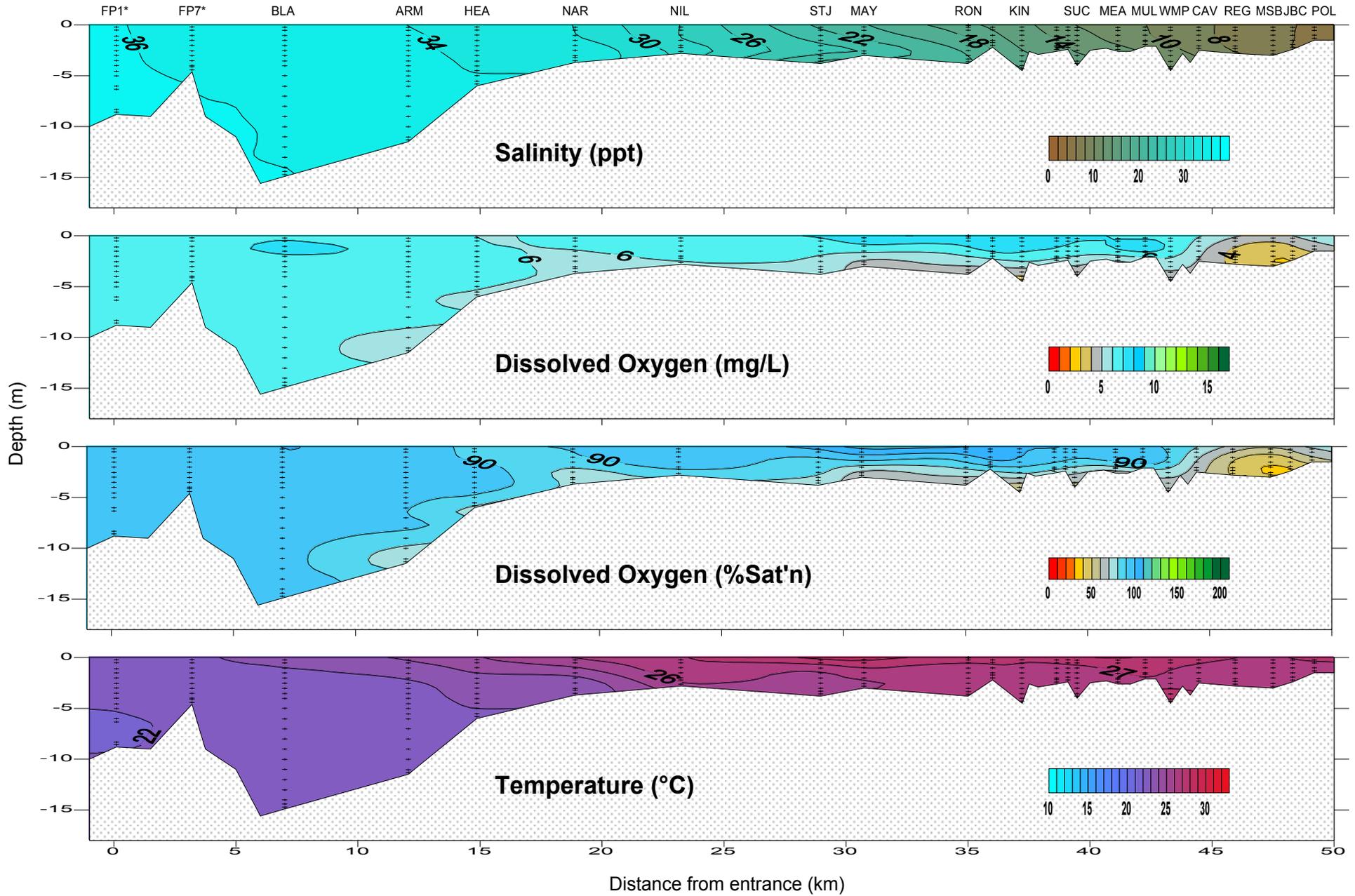
Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout with the exception of low oxygen bottom water at KIN and from REG to JBC. Water temperature ranged from 26.1 to 28.1°C.

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 - 3rd January 2017



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