



Environmental Monitoring and Reporting
Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Monday 14th November 2016

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly north easterly breeze of up to 10 knots. The predicted tides at Guildford were 0.53 m (low tide) at 08:10 and 1.02 m (high tide) at 23:32. Perth recorded 0.4 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 (FPI to NAR): The Lower Swan Estuary was oxygenated to well oxygenated throughout. Water was saline to hypersaline throughout with the exception of NAR where there was brackish surface waters overlying saline bottom waters. Water temperature ranged from 18.8 to 22.1 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was oxygenated to well oxygenated throughout with the exception of MAY where surface waters were well oxygenated but bottom waters had low oxygen. Water was brackish throughout. Water temperature ranged from 23.0 to 25.1 °C.

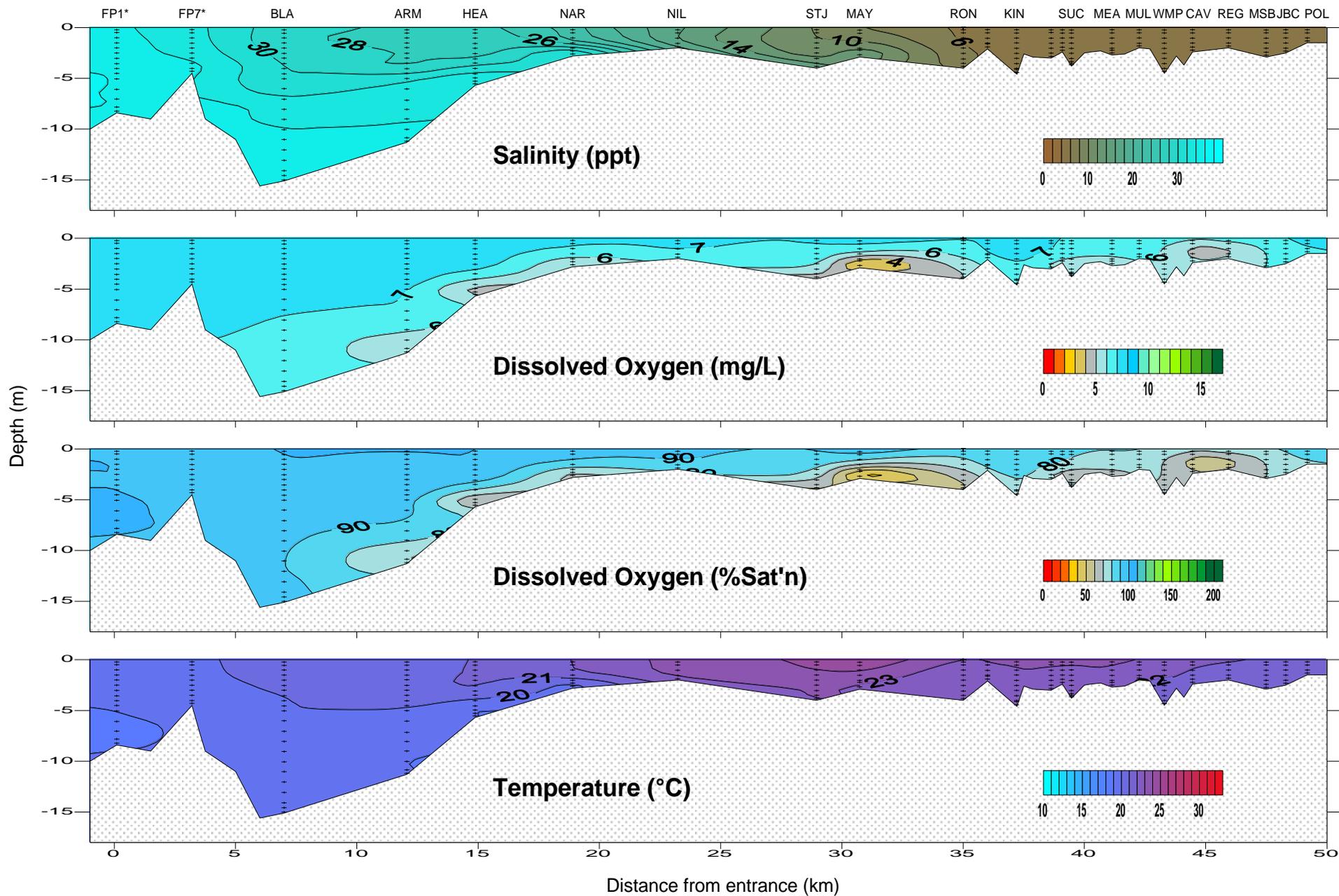
Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish throughout. Water was oxygenated to well oxygenated throughout. Water temperature ranged from 23.0 to 25.1 °C.

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 - 14th November 2016



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