



Department of
Parks and Wildlife



**SWAN CANNING
RIVERPARK**

Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Monday 13th March 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a west to south westerly breeze of up to 15 knots. The predicted tides at Guildford were 0.67 m (low tide) at 07:35 and 0.48 m (high tide) at 13:48. Perth recorded 8.4 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 (FP2.1 to NAR): The Lower Swan Estuary was saline to hypersaline at FP2.1 and FP7 and brackish over saline at BLA to NAR. Water was well oxygenated throughout FP2.1 to BLA and well oxygenated over near anoxic from ARM to NAR. Water temperature ranged from 22.1 to 23.7 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was brackish throughout all sites. Water was well oxygenated, with the exception of hypoxic bottom water at NIL and STJ. Water temperature ranged from 23.0 to 24.1 °C.

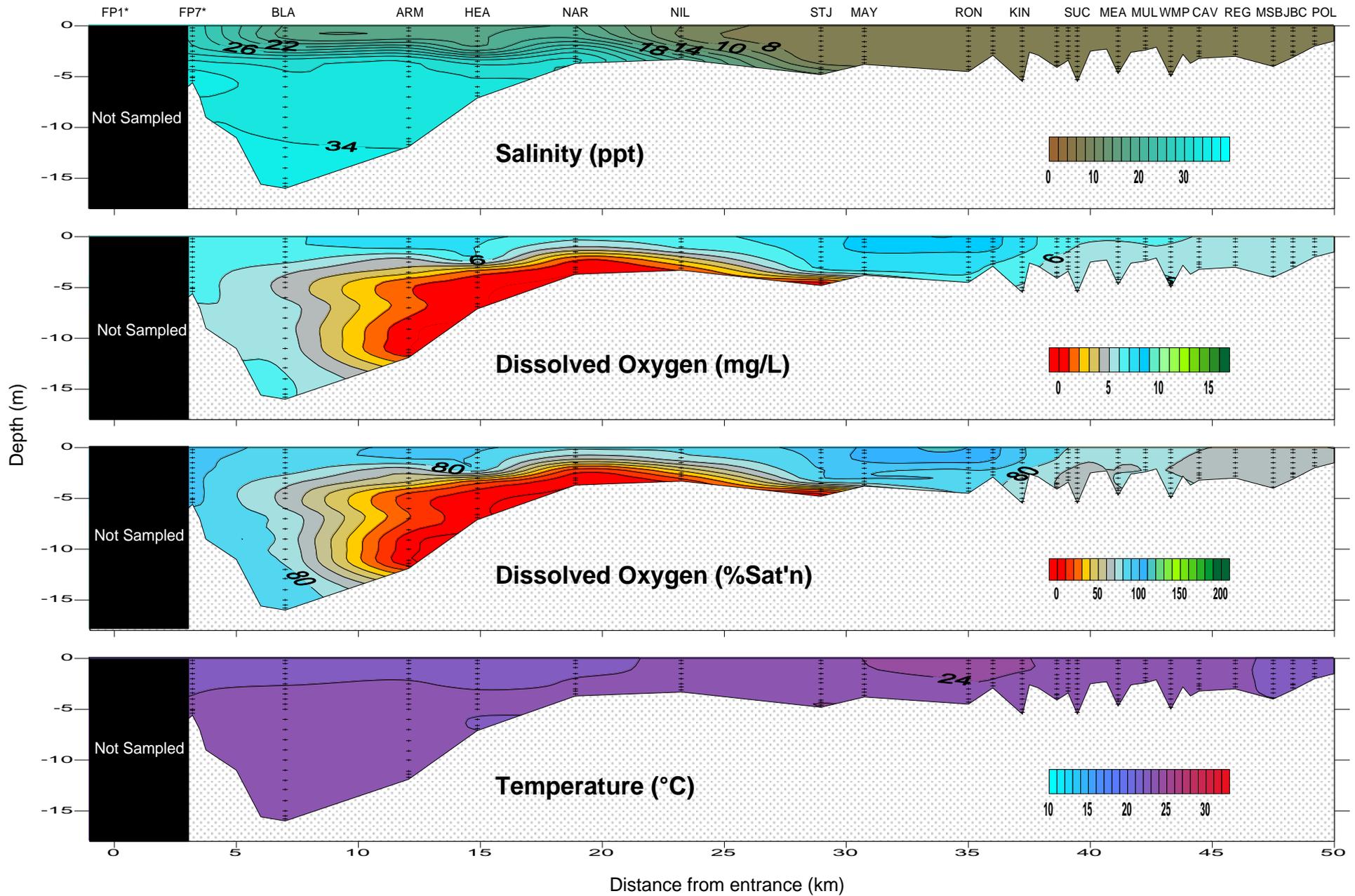
Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish and well oxygenated to oxygenated throughout all sites. Water temperature ranged from 22.8 to 24.4 °C.

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 - 13th March 2017



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