



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 21st September 2015

Weather & tide conditions: Conditions were fine with 0% cloud cover and an east to north easterly breeze of up to 15 knots. The predicted tides at Guildford were 0.93 m (high tide) at 03:40 and 0.61 m (low tide) at 15:57. Perth recorded 1.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were not operational the week prior to sampling.

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary was hypersaline to saline from FP1 to ARM and brackish over saline at HEA and NAR. Water was well oxygenated to oxygenated at all sites, with the exception of hypoxic bottom water at NAR. Water temperature ranged from 15.8 to 17.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout all sites. Surface water was well oxygenated at all sites, while bottom water was oxygenated at NIL and low in oxygen at STJ to RON. Water temperature ranged from 17.0 to 18.7 °C.

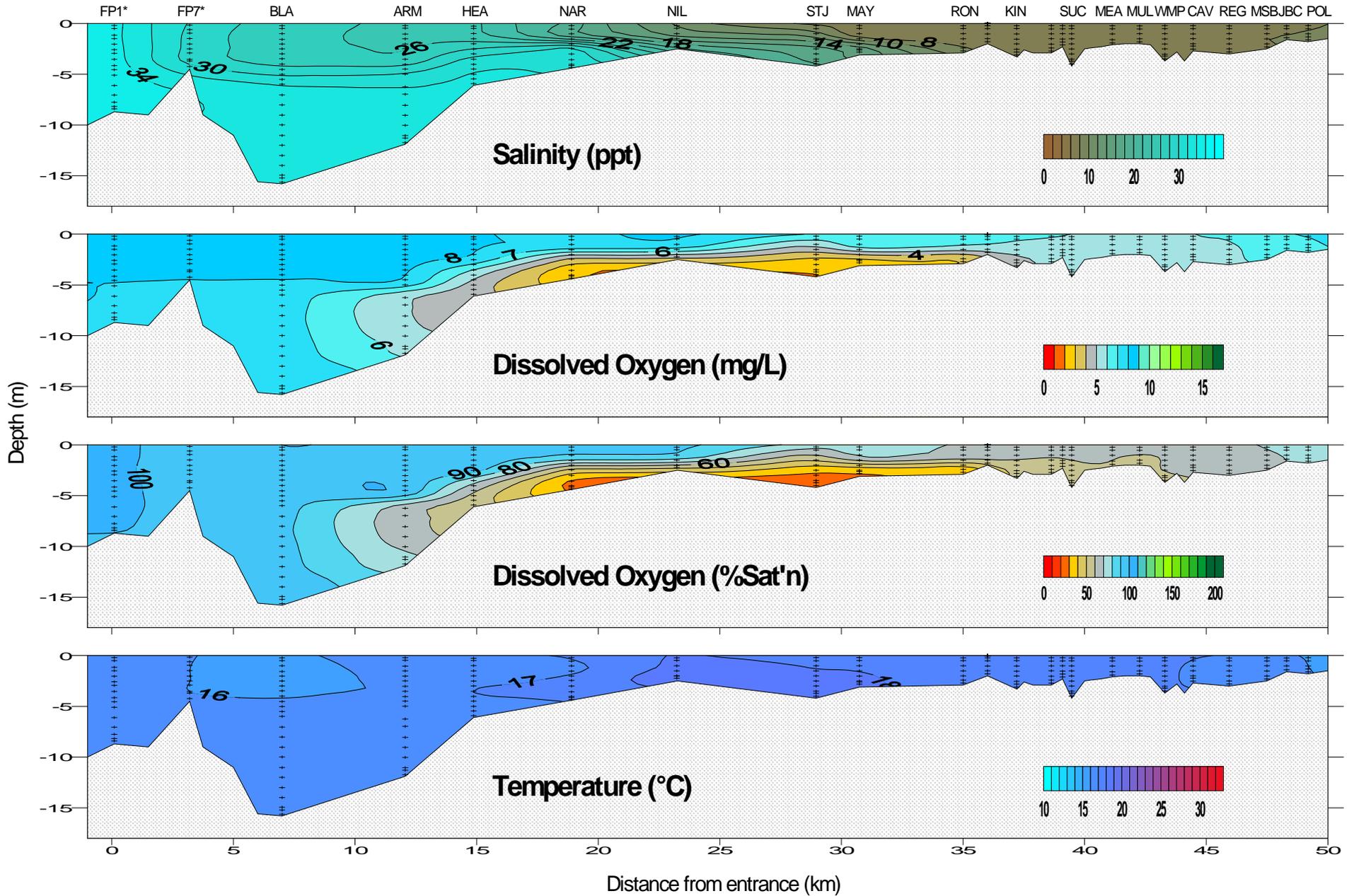
Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout with the exception of fresh surface water at JBC. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 15.6 to 17.9 °C.

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 - 21st September 2015



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