



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

**by  
Water Science Branch, Department of Water**

Date: Monday 22<sup>nd</sup> June 2015

Weather & tide conditions: Conditions were overcast with to 30 to 100% cloud cover and a south easterly to south westerly breeze of up to 9 knots. The predicted tides at Guildford were 1.08 m (high tide) at 13:19 and 0.81 m (low tide) at 23:02. Perth recorded 88.8 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 (BLA to NAR): The Lower Swan Estuary was saline and well oxygenated throughout at all sites. Water temperature ranged from 14.9 to 16.3 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish and well oxygenated on the surface over saline oxygenated bottom water at all sites with the exception of saline surface water at NIL. Water temperature ranged from 14.9 to 16.6 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout with the exception of fresh surface water at CAV and KMO. Surface water was well oxygenated at all sites. Bottom water was oxygenated at BWR10, well oxygenated from KIN to CAV, becoming oxygenated again at REG and MSB, then low in oxygen at JBC and POL. Water temperature ranged from 14.5 to 17.0 °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 - 22nd June 2015

