



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

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

Date: Monday 24<sup>th</sup> April 2017

Weather & tide conditions: Conditions were fine with up to 20% cloud cover and a south easterly breeze of up to 4 knots. The predicted tides at Guildford were 0.78 m (low tide) at 04:58 and 0.99 m (high tide) at 11:25. 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 mostly saline with the exception of hypersaline bottom water at BLA and ARM. Surface water was well oxygenated with oxygenated bottom water at ARM and NAR, low oxygen bottom water at HEA and hypoxic bottom water at NAR. Water temperature ranged from 20.7 to 21.9 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was mostly brackish with saline bottom water at NIL. Surface water was well oxygenated. Bottom water was oxygenated at NIL, hypoxic at STJ and near anoxic at MAY and RON. Water temperature ranged from 21.4 to 22.9 °C.

Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish throughout. Surface water was well oxygenated at sites from KIN to CAV over near anoxic bottom water at KIN, low oxygen bottom water at VIT, MEA, MULB FARM and WMP. REG and MSB had low oxygen throughout. JBC and POL were oxygenated throughout. Water temperature ranged from 20.2 to 22.0 °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 - 24th April 2017

Prepared by Water Science Branch, Department of Water

