



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

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

Date: Monday 22<sup>nd</sup> May 2017

Weather & tide conditions: Conditions were overcast with up to 98% cloud cover north easterly breeze of up to 3 knots. The predicted tides at Guildford were 0.84m (low tide) at 03:10 and 1.02 m (high tide) at 10:23. Perth recorded 53 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. Water temperature ranged from 16.1 to 18.9 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish over saline throughout. Water was mostly well oxygenated with the exception of hypoxic bottom water at STJ and MAY and near anoxic bottom water at RON. Water temperature ranged from 16.2 to 19.2 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Surface water was well oxygenated over near anoxic bottom water at BWR10 and KIN and hypoxic bottom water at KMO to SUC. Water was oxygenated at MEA to POL with the low oxygen bottom water at MEA, MULB FARM, CAV, MSB and JBC and hypoxic bottom water at WMP. Water temperature ranged from 16.2 to 19.2 °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 - 22th of May 2017

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