



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

by  
**Aquatic Science Branch, Department of Water and Environmental Regulation**

Date: Monday 16<sup>th</sup> July 2018

Weather & tide conditions: Conditions were overcast and with up to 100% cloud cover, intermittent rainfall and a north-westerly to south-westerly breeze of up to 21 knots. The predicted tides at Guildford were 1.13 m (high tide) at 13:53 and 0.71 m (low tide) at 00:18. Perth recorded 32.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham oxygenation plant was operational the week prior to sampling, while the Guildford oxygenation plant was not operational.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was brackish over saline throughout. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 14.9 to 17.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout all sites, with the exception of near anoxic bottom water at STJ. Water temperature ranged from 13.0 to 15.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout. Water was well oxygenated throughout. Water temperature ranged from 12.9 to 14.1 °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 Profiles 16<sup>th</sup> July 2018

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