



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

by  
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 27<sup>th</sup> August 2018

Weather & tide conditions: Conditions were fine and with up to 80% cloud cover and a north-easterly to north-westerly breeze of up to 4 knots. The predicted tides at Guildford were 0.73 m (low tide) at 04:32 and 1.02 m (high tide) at 12:05. Perth recorded 8.4 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 (BLA to NAR): The Lower Swan Estuary was brackish over saline at BLA and ARM, and fresh over saline at HEA and NAR. Water was well oxygenated to oxygenated throughout with the exception of bottom water low in oxygen at HEA and hypoxic at NAR. Water temperature ranged from 15.7 to 16.9 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary fresh throughout. Water was well oxygenated throughout. Water temperature ranged from 14.1 to 17.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh throughout. Water was well oxygenated throughout. Water temperature ranged from 13.8 to 15.4 °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 27<sup>th</sup> August 2018

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