



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

by

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

Date: Monday 3<sup>rd</sup> December 2018

Weather & tide conditions: Conditions were fine with up to 40% cloud cover and a north-easterly to easterly breeze of up to 6 knots. The predicted tides at Guildford were 0.64 m (low tide) at 07:03 and 0.94 m (high tide) at 21:53. 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 (BLA to NAR): The Lower Swan Estuary was saline over hypersaline to saline at BLA and saline from ARM to NAR. Water was well oxygenated to oxygenated throughout, with the exception of low oxygen bottom water at HEA. Water temperature ranged from 20.2 to 22.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated throughout, with the exception of bottom water that was low in oxygen at STJ and RON, and hypoxic at MAY. Water temperature ranged from 23.4 to 27.3 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish at BWR10, fresh over brackish from KIN to SUC, and fresh from MEAD to POL. Water was well oxygenated to oxygenated throughout, with the exception of bottom water low in oxygen from BWR10 to KMO. Water temperature ranged from 23.6 to 27.1 °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 3th December 2018

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