



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

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 7<sup>th</sup> May 2018

Weather & tide conditions: Conditions were fine with up to 75% cloud cover and a predominantly north easterly breeze of up to 5 knots. The predicted tides at Guildford were 0.72 m (low tide) at 02:25 and 1.10 m (high tide) at 14:58. Perth recorded 6.2 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 operational until 04/05 then operation was intermittent.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was hypersaline to saline throughout. Water well oxygenated at all sites. Water temperature ranged from 18.3 to 19.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline from NIL to MAY and brackish over saline at RON. Water was mostly well oxygenated to oxygenated throughout with the exception of bottom water that was low in oxygen at RON. Water temperature ranged from 17.6 to 19.4 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was mostly brackish throughout with the exception of saline bottom water at BWR10, KIN and KMO. Surface water was well oxygenated to oxygenated and bottom water was low in oxygen from BWR10 to MEAD and at WMP and JBC. Water was well oxygenated to oxygenated throughout MULB FARM, CAV to MSB and at POL. Water temperature ranged from 16.9 to 19.6 °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 - 7th May 2018

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