



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

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 31<sup>st</sup> July 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a northerly breeze of up to 18 knots. The predicted tides at Guildford were 0.97 m (high tide) at 06:24 and 0.73 m (low tide) at 20:03. Perth recorded 66.8 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 brackish over saline throughout. Water was mostly well oxygenated with oxygenated bottom water at ARM, HEA and NAR. Water temperature ranged from 13.8 to 16.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish at NIL, fresh over brackish at STJ and MAY and fresh at RON. Water was mostly well oxygenated with the exception of oxygenated bottom water at NIL, near anoxic bottom water at STJ and hypoxic bottom water at MAY. Water temperature ranged from 14.2 to 16.6 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh and well oxygenated throughout all sites. Water temperature ranged from 13.7 to 14.3 °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 - 31st July 2017

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