



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

by  
Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 18<sup>th</sup> December 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a predominantly south westerly breeze of up to 25 knots. The predicted tides at Guildford were 0.53 m (low tide) at 09:10 and 1.06 m (high tide) at 23:20. Perth recorded 24.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was saline throughout. Water was well oxygenated at all sites. Water temperature ranged from 21.0 to 22.5 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline at NIL and brackish from STJ to RON. Water was mostly well oxygenated to oxygenated throughout all sites with the exception of bottom water that was low in oxygen at RON. Water temperature ranged from 21.7 to 22.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Surface water was oxygenated over bottom water that was low in oxygen at BWR10, MULB FARM and WMP. Water was well oxygenated to oxygenated from KIN to MEA and at POL while water was low in oxygen from CAV to JBC. Water temperature ranged from 24.6 to 25.4 °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 Profile - 18th December 2017

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