



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 26th September 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a south to south westerly breeze of up to 5 knots. The predicted tides at Guildford were 0.92 m (high tide) at 02:05 and 0.63 m (low tide) at 16:28. Perth recorded 43.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was brackish over saline. Water was well oxygenated to oxygenated with the exception of low oxygen bottom water at NAR. Water temperature ranged from 15.6 to 17.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh over brackish at NIL and STJ and fresh throughout MAY and RON. Water was well oxygenated, with the exception of low oxygen bottom water at NIL and STJ. Water temperature ranged from 15.8 to 18.1 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary fresh and well oxygenated throughout all sites. Water temperature ranged from 15.3 to 16.2 °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 - 26th September 2017

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