



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
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Date: Monday 29th August 2016

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a south to south westerly breeze of up to 5 knots. The predicted tides at Guildford were 1.01 m (high tide) at 09:26 and 0.61 m (low tide) at 19:44. Perth recorded 38.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was brackish on the surface and saline at the bottom of all sites. Water was well oxygenated to oxygenated throughout, with the exception of low oxygen bottom water at HEA and hypoxic bottom water at NAR. Water temperature ranged from 13.7 to 15.7 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was fresh throughout all sites, with the exception of brackish bottom water at STJ. Water was well oxygenated throughout, with the exception of low oxygen bottom water at STJ. Water temperature ranged from 13.6 to 14.4 °C.

Upper Swan Estuary (RON to POL): The Upper Swan Estuary was fresh and well oxygenated throughout all sites. Water temperature ranged from 12.6 to 13.0 °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 - 29th August 2016

