



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

by
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Date: Monday 27th February 2017

Weather & tide conditions: Conditions were fine with 0% cloud cover and a west to south easterly breeze of up to 6 knots. The predicted tides at Guildford were 0.61 m (low tide) at 08:29 and 0.78 m (high tide) at 14:15. Perth recorded 2.4 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 (FPI to NAR): The Lower Swan Estuary brackish on the surface over saline to hypersaline bottom water, with the exception of saline surface water at FP2.1 and fresh surface water at NAR. Water was well oxygenated at all sites, with the exception of hypoxic to near anoxic bottom water at BLA to NAR. Water temperature ranged from 21.7 to 27.2 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was fresh and well oxygenated to oxygenated throughout all sites. Water temperature ranged from 25.5 to 27.9 °C.

Upper Swan Estuary (RON to POL): The Upper Swan Estuary was fresh and well oxygenated to oxygenated throughout. Water temperature ranged from 25.1 to 27.1 °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

