



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

by
Water Science Branch, Department of Water

Date: Monday 21st November 2016

Weather & tide conditions: Conditions were fine with up to 60% cloud cover and a predominantly south to south easterly breeze of up to 4 knots. The predicted tides at Guildford were 0.88 m (high tide) at 01:05 and 0.59 m (low tide) at 14:23. Perth recorded 14 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 saline throughout all sites, with the exception of brackish surface water at NAR. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 19.7 to 21.5 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was brackish throughout all sites. Water was well oxygenated to oxygenated at NIL and MAY, and well oxygenated on the surface over near anoxic bottom water at STJ. Water temperature ranged from 22.3 to 24.3 °C.

Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish throughout all sites. Water was well oxygenated to oxygenated at all sites, with the exception of low oxygen bottom water at RON, KIN and CAV. Water temperature ranged from 21.9 to 24.2 °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 - 21st November 2016

