



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

by
Water Science Branch, Department of Water

Date: Monday 1st August 2016

Weather & tide conditions: Conditions were fine with up to 5% cloud cover and a predominantly north easterly breeze of up to 4.7 knots. The predicted tides at Guildford were 1.15 m (high tide) at 10:27 and 0.64 m (low tide) at 21:03. Perth recorded 7.2 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 brackish over saline throughout. Water was mostly well oxygenated with low oxygen bottom water at ARM and HEA and hypoxic bottom water at HEA. Water temperature ranged from 12.4 to 15.7 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish and well oxygenated throughout all sites. Water temperature ranged from 12.6 to 13.8 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish and well oxygenated throughout all sites. Water temperature ranged from 11.9 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 - 1th August 2016

