



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

by
Water Science Branch, Department of Water

Date: Monday 21st December 2015

Weather & tide conditions: Conditions were fine with up to 1% cloud cover and an east to south easterly breeze of up to 10 knots. The predicted tides at Guildford were 0.60 m (low tide) at 07:28 and 0.99 m (high tide) at 21:05. Perth recorded 0 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: 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 to hyper saline throughout all sites. Water was well oxygenated to oxygenated throughout all sites. Water temperature ranged from 21.6 to 22.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout NIL, brackish over saline at STJ and brackish throughout MAY and RON. Water was well oxygenated on the surface and oxygenated on the bottom at all sites. Water temperature ranged from 21.2 to 25.5 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated at all sites with the exception of low oxygenated bottom water at KIN, SUC and MSB. Water temperature ranged from 24.9 to 26.5 °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 December 2015

