



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

**by
Water Science Branch, Department of Water**

Date: Monday 7th December 2015

Weather & tide conditions: Conditions were fine with up to 90% cloud cover and a predominantly south westerly breeze of up to 11.9 knots. The predicted tides at Guildford were 0.62 m (low tide) at 07:51 and 0.98 m (high tide) at 20:31. Perth recorded 13.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was hyper saline to saline throughout all sites. Water well oxygenated to oxygenated at all sites. Water temperature ranged from 19.9 to 21.8 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline at NIL, brackish over saline at STJ and brackish throughout MAY and RON. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 21.3 to 22.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout all sites. Surface water was well oxygenated to oxygenated at all sites, except for REG and MSB which had low oxygen surface water. Bottom water was oxygenated to low in oxygen at all sites. Water temperature ranged from 23.0 to 24.3 °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 - 7th December 2015

