



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

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

Date: Monday 30th March 2015

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a east to north westerly breeze of up to 5 knots. The predicted tides at Guildford were 0.66 m (low tide) at 05:34 and 0.96 m (high tide) at 20:20. Perth recorded 3.4 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 (BLA to NAR): The Lower Swan Estuary was hypersaline and well oxygenated throughout all sites, with the exception of oxygenated bottom water at ARM. Water temperature ranged from 21.6 to 22.5 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline with well oxygenated surface water over oxygenated bottom water at all sites. Water temperature ranged from 22.2 to 23.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline throughout BWR10 and KIN, brackish over saline from KMO to SUC and brackish throughout MEA to POL. Water was well oxygenated and oxygenated from BWR10 to REG and oxygenated over low oxygenated bottom water from MSB to POL. Water temperature ranged from 21.5 to 23.0 °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 - 30th March 2015

