



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

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

Date: Monday 11th May 2015

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly south easterly breeze of up to 8 knots. The predicted tides at Guildford were 0.71 m (low tide) at 02:39 and 1.07 m (high tide) at 16:05. Perth recorded 0 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 throughout all sites with the exception of saline surface water at NAR. Water was well oxygenated throughout all sites. Water temperature ranged from 17.5 to 18.0°C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout all sites. Water was well oxygenated at the surface over oxygenated bottom water at NIL, well oxygenated throughout at STJ and MAY, and oxygenated throughout at RON. Water temperature ranged from 17.4 to 18.4°C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline throughout from BWR10 to SUC, then brackish throughout from MEA to POL. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 15.8 to 18.1°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 - 11th May 2015

