



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

by
Water Science Branch, Department of Water

Date: Monday 14th September 2015

Weather & tide conditions: Conditions were fine with up to 90% cloud cover and a mainly south westerly breeze of up to 7 knots. The predicted tides at Guildford were 0.69 m (low tide) at 05:53 and 0.87 m (high tide) at 12:23. Perth recorded 36.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was well oxygenated to oxygenated and saline throughout with the exception of brackish surface water at NAR. Water temperature ranged from 16.5 to 18.9 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Surface water was well oxygenated to oxygenated and bottom water was oxygenated (NIL and RON) to low oxygen (STJ and MAY). Water temperature ranged from 16.9 to 18.9 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated throughout with the exception of oxygenated bottom water at BWR10 and KIN. Water temperature ranged from 14.1 to 17.6 °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 - 14th September 2015

