



Department of
Parks and Wildlife



**SWAN CANNING
RIVERPARK**

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

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

Date: Monday 17th August 2015

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a north to north easterly breeze of up to 6 knots. The predicted tides at Guildford were 0.77 m (low tide) at 05:43 and 0.96 m (high tide) at 12:41. Perth recorded 9.4 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 saline throughout BLA and ARM and brackish over saline at HEA and NAR. Water was well oxygenated and oxygenated throughout, with the exception of low oxygen bottom water at NAR. Water temperature ranged from 15.6 to 17.4 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout all sites. Surface water was well oxygenated at all sites, and bottom water was oxygenated at NIL, hypoxic at STJ and low in oxygen at MAY to RON. Water temperature ranged from 14.8 to 17.1 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish and well oxygenated throughout all sites. Water temperature ranged from 15.1 to 17.1 °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 - 17th August 2015

