



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 9th October 2017

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly easterly breeze of up to 3 knots. The predicted tides at Guildford were 0.94 m (high tide) at 01:24 and 0.58 m (low tide) at 10:40. Perth recorded 2.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford oxygenation plant was not operational, while the Caversham oxygenation plant was operational up to 4/10/17 the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was brackish on the surface over saline bottom water at all sites. Water was mostly well oxygenated to oxygenated throughout with the exception of HEA and NAR where bottom water was low in oxygen. Water temperature ranged from 16.3 to 19.2 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was brackish throughout. Water was well oxygenated to oxygenated at all sites. Water temperature ranged from 17.9 to 20.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated at all sites. Water temperature ranged from 16.0 to 20.0 °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 - 9th October 2017

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