



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Monday 15th August 2016

Weather & tide conditions: Conditions were fine with up to 90% cloud cover and a predominantly north westerly breeze of up to 11 knots. The predicted tides at Guildford were 1.08 m (high tide) at 09:26 and 0.66 m (low tide) at 19:41. Perth recorded 16.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham oxygenation plant was operational the week prior to sampling. The Guildford oxygenation plant was operational from 8/8/16 to 11/8/16 on the week prior to sampling.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was brackish over saline at all sites. Water well oxygenated throughout BLA and well oxygenated over low oxygen at ARM to NAR. Water temperature ranged from 14.8 to 16.2 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was brackish throughout all sites. Water was well oxygenated to oxygenated at all sites, with the exception of hypoxic bottom water at STJ. Water temperature ranged from 14.0 to 15.8 °C.

Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish and well oxygenated throughout all sites. Water temperature ranged from 12.0 to 13.5 °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 - 15th August 2016

