



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 30th July 2018

Weather & tide conditions: Conditions were fine with up to 60% cloud cover and a predominantly south-westerly breeze of up to 4 knots. The predicted tides at Guildford were 1.10 m (high tide) at 12:38 and 0.72 m (low tide) at 22:07. Perth recorded 32.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham oxygenation plant was operational the week prior to sampling, while the Guildford oxygenation plant was not operational.

Lower Swan/Canning Estuary (BLA to NAR): The Lower Swan Estuary was brackish over saline from BLA to HEA and brackish at NAR. Water was mostly well oxygenated to oxygenated throughout with the exception of bottom water that was low in oxygen at HEA. Water temperature ranged from 15.4 to 17.3 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was fresh throughout. Water was well oxygenated at all sites. Water temperature ranged from 14.7 to 15.7 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was fresh from BWR10 to SUC and brackish from MEAD to POL. Water was well oxygenated at all sites. Water temperature ranged from 14.0 to 15.8 °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 Profiles 30th July 2018

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