



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Monday 21st May 2018

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly easterly breeze of up to 4 knots. The predicted tides at Guildford were 0.67 m (low tide) at 02:23 and 1.13 m (high tide) at 15:27. Perth recorded 0 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. Water was well oxygenated from BLA to HEA and oxygenated at NAR. Water temperature ranged from 17.9 to 19.1 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was saline throughout. Water was mostly oxygenated throughout with the exception of bottom water that was low in oxygen at MAY and RON. Water temperature ranged from 17.3 to 18.4 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was saline from BWR10 to KIN, brackish over saline from KMO to SUC and brackish from MEAD to POL. Water was mostly well oxygenated to oxygenated with the exception of bottom water that was low in oxygen from BWR10 to VIT. Water temperature ranged from 15.6 to 18.1 °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 - 21st May 2018

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