



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 16th January 2018

Weather & tide conditions: Conditions were fine with up to 90% cloud cover and a predominantly south-easterly breeze of up to 7 knots. The tide was flowing during the sampling period. Gosnells recorded 75 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Road and Bacon Street oxygenation plants were operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline at SCB2, brackish with saline bottom water at SAL, and fresh at RIV and CASMID. Water was well oxygenated to oxygenated at all sites with the exception of low oxygen bottom water at SAL. Water temperature ranged from 21.2 to 23.9 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. There was predominantly low oxygen at all sites, with the exception of oxygenated water at BACU300 and PO2, hypoxic bottom water at PAC and hypoxic water throughout at ELL. Water temperature ranged from 21.7 to 22.6 ° 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

Canning River Estuary - Physical-chemical Profile - 16th January 2018

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