



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by

Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 17th October 2017

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a north westerly breeze of up to 9 knots. The tide was flowing during the sampling period. Gosnells recorded 18.1 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Road oxygenation plant was operational the week prior to sampling, while the Bacon Street oxygenation plant was not.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish at SCB2 and SAL, fresh over brackish at RIV and fresh at CASMID. Water was well oxygenated at SCB2 and SAL and surface water was well oxygenated to oxygenated at RIV and CASMID while bottom water was low in oxygen. Water temperature ranged from 19.9 to 20.9 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Water was mostly well oxygenated to oxygenated throughout, with the exception of low oxygen bottom water at KEN, near anoxic bottom water at KENU300 and hypoxic bottom water at BAC. Water temperature ranged from 16.4 to 19.9 ° 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 - 17th October 2017

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