



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 24th October 2017

Weather & tide conditions: Conditions were fine with up to 95% cloud cover and a southerly breeze of up to 3 knots. The tide was flowing during the sampling period. Gosnells recorded 2.2 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 Saline at SCB2, brackish at SAL and fresh over brackish at RIV and CASMID. Water was mostly well oxygenated to oxygenated at all sites with the exception of CASMID where bottom water was low in oxygen. Water temperature ranged from 19.5 to 23.1 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout. Water was mostly well oxygenated to oxygenated at all sites with the exception of near anoxic bottom water at KEN and BAC, hypoxic bottom water at KENU300 and low in oxygen bottom water at BACD500. Water temperature ranged from 17.5 to 21.2 ° 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 - 24th October 2017

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