



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 31st October 2017

Weather & tide conditions: Conditions were fine with 0% cloud cover and a south easterly breeze of up to 5 knots. The tide was ebbing during the sampling period. Gosnells recorded 9.8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Road oxygenation plant was operational up to 28th October, while the Bacon Street oxygenation plant was not operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish on the surface over saline bottom water at SCB2, brackish at SAL, fresh on the surface over brackish bottom water at RIV and fresh at CASMID. Water was mostly well oxygenated to oxygenated at all sites with the exception of bottom water that was low in oxygen at CASMID. Water temperature ranged from 18.5 to 22.7 ° 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 at all sites, with the exception of bottom water that was low in oxygen at KEN, KS7, NIC and KS9 and hypoxic at BAC. Water temperature ranged from 17.6 to 20.4 ° 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 - 31st October 2017

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