



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 21st November 2017

Weather & tide conditions: Conditions were fine with up to 50% cloud cover and a predominantly south easterly breeze of up to 14 knots. The tide was flowing during the sampling period. Gosnells recorded 0 mm of rainfall during the week prior to 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 on the surface over saline bottom water at SAL, brackish at RIV and fresh on the surface over brackish bottom water at CASMID. Water was well oxygenated at SCB2 and oxygenated at SAL. Surface water was oxygenated at RIV and CASMID while bottom water was low in oxygen at RIV and hypoxic at CASMID. Water temperature ranged from 22.0 to 26.7 ° 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 throughout all sites, with the exception of low oxygen bottom water at ELL and PAC. Water temperature ranged from 21.2 to 24.5 ° 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 - 21st November 2017

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