



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 6th February 2018

Weather & tide conditions: Conditions were fine with up to 50% cloud cover and a predominantly south easterly breeze of up to 11 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 and SAL, brackish at RIV and fresh over brackish at CASMID. Water was oxygenated throughout SCB2 and SAL. Surface was well oxygenated at RIV and CASMID while bottom water was low in oxygen at RIV and near anoxic at CASMID. Water temperature ranged from 24.3 to 29.5 ° 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 bottom water that was low in oxygen at KEN, hypoxic at PO2, PAC and ELL and near anoxic at KS7. Water temperature ranged from 23.1 to 27.3 ° 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 - 6th February 2018

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