



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 19th March 2019

Weather & tide conditions: Conditions were fine with up to 30% cloud cover and a predominantly north-westerly breeze of up to 6 knots. The tide was flowing during the sampling period. Gosnells recorded 0 mm of rainfall during the week prior to the morning of 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 hypersaline to saline throughout with the exception of brackish surface water at CASMID. Water was well oxygenated throughout SCB2 and SAL. Surface water was oxygenated at RIV and low in oxygen at CASMID, while bottom water was low in oxygen at RIV and hypoxic at CASMID. Water temperature ranged from 25.5 to 28.7 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Water was mostly well oxygenated throughout all sites, with the exception of bottom water that was near anoxic at KEN, BAC and ELL and low in oxygen at KENU300 and BACD300. Water temperature ranged from 22.9 to 27.1 ° 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 - 19th March 2019

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