



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 12th March 2019

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly south-westerly breeze of up to 5 knots. The tide was flowing during the sampling period. Gosnells recorded 1.4 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 from SCB2 to SAL and brackish over saline at RIV and CASMID. Water was well oxygenated to oxygenated throughout with the exception of bottom water which was low in oxygen at RIV and near anoxic at CASMID. Water temperature ranged from 23.4 to 27.5 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Water was well oxygenated to oxygenated throughout with the exception of bottom water which was low in oxygen at PAC and near anoxic at ELL. Water temperature ranged from 22.9 to 25.3 ° 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 - 12th March 2019

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