



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 2nd April 2019

Weather & tide conditions: Conditions were fine with up to 80% cloud cover and a predominantly south-easterly breeze of up to 6 knots. The tide was flowing during the sampling period. Gosnells recorded 4.0 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 at SCB2 and SAL, saline at RIV and brackish over saline at CASMID. Water was well oxygenated to oxygenated throughout, with the exception of low oxygen water at RIV and low oxygen bottom water at CASMID. Water temperature ranged from 21.4 to 23.2 ° 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 low oxygen bottom water at KEN, MASD50 and ELL, and hypoxic bottom water at KS7. Water temperature ranged from 20.6 to 23.6 ° 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 - 2nd April 2019

Prepared by Aquatic Science Branch, Department of Water and Environmental Regulation

