



Environmental Monitoring and Reporting Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 28th November 2017

Weather & tide conditions: Conditions were fine with up to 95% cloud cover and a predominantly south westerly breeze of up to 5 knots. The tide was ebbing 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 Saline at SCB2 and SAL, brackish at RIV and fresh on the surface over brackish bottom water at CASMID. Water was mostly well oxygenated to oxygenated throughout with the exception of bottom water that was low in oxygen at CASMID. Water temperature ranged from 23.6 to 29.9 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Surface water was well oxygenated to oxygenated at all sites while bottom water was well oxygenated to oxygenated at KEN, BACU300, PO2 and from MASD50 to KS9, hypoxic at KENU300, BACD300 and ELL, low in oxygen at BACD500, GRE, KS7 and PAC and near anoxic at BAC. Water temperature ranged from 21.6 to 24.8 ° 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 - 28th November 2017

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

