



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Tuesday 18th December 2018

Weather & tide conditions: Conditions were fine with 0% cloud cover and a predominantly south-easterly breeze of up to 3 knots. The tide was flowing during the sampling period. Gosnells recorded 0.4 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, brackish over saline at SAL and brackish at RIV. Water was well oxygenated to oxygenated at all sites with the exception of bottom water that was low in oxygen at RIV. Water temperature ranged from 22.7 to 25.0 ° 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 with the exception of ELL, where surface water was low in oxygen. Bottom water was low in oxygen from KEN to BAC, well oxygenated to oxygenated from BACU300 to GRE and from MASD50 to KS9, near anoxic at KS7, PAC and ELL and hypoxic at MACD50. Water temperature ranged from 20.4 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 - 18th December 2018

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