



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
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Date: Tuesday 24th March 2015

Weather & tide conditions: Conditions were fine with no cloud cover and an easterly to south easterly breeze of up to 10 knots. The tide was flooding for the duration of the sampling period. Perth recorded 5.4 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: Bacon St, Camsell Way and Nicholson Rd oxygenation plants were operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was hypersaline throughout at SCB2, saline over hypersaline bottom water at SAL, and saline throughout at RIV. Water was well oxygenated throughout at SCB2 and SAL, and oxygenated throughout at RIV. Water temperature ranged from 17.9 to 21.2 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout with the exception of brackish bottom water at KEN, KENU300 and KS7. Surface water was well oxygenated from KEN to NIC, then oxygenated from KS9 to ELL. Bottom water was well oxygenated to oxygenated at all sites except for KEN, KENU300 and KS7 where bottom water was hypoxic. Water temperature ranged from 19.0 to 25.0 °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 - 24th March 2015

