



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Wednesday 8th April 2015

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a predominantly north easterly breeze of up to 4 knots. The tide was flowing for the duration of the sampling period. Perth recorded 21.4 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Bacon Street, Camsell Way and Nicholson Road oxygenation plants were operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was hypersaline and saline throughout SCB2 and SAL, brackish over saline at RIV and fresh over saline at CASMID. Water was well oxygenated on the surface at all sites except for RIV which had oxygenated surface water, and bottom water was oxygenated at all sites except for CASMID which had low oxygen bottom water. Water temperature ranged from 19.0 to 21.4 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout with the exception of brackish bottom water at KS7 and KENU300. Water was well oxygenated to oxygenated throughout all sites with the exception of hypoxic bottom water at NICD200 and KEN, and near anoxic bottom water at KS7 and KENU300. Water temperature ranged from 18.6 to 23.8 °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 - 8th April 2015

