



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Tuesday 10th February 2015

Weather & tide conditions: Conditions were fine with up to 30% cloud cover and a north westerly breeze of up to 8 knots. The tide was flowing for the duration of the sampling period. Perth recorded 1.6 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: Bacon St and Camsell Way oxygenation plants were operational the week prior to sampling. Nicholson Rd oxygenation plant was operational the week prior to sampling for testing.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline throughout with the exception of brackish surface water at RIV and CASMID. Surface water was well oxygenated at SCB2 and CASMID, and oxygenated at SAL and RIV, while bottom water was oxygenated at SCB2, low in oxygen at SAL, hypoxic at RIV, and near anoxic at CASMID. Water temperature ranged from 25.9 to 31.1 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout. Water was well oxygenated to oxygenated throughout all sites, with the exception of bottom water which was hypoxic at KEN, KENU300, KS7 and ELL. Water temperature ranged from 23.0 to 28.5 °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 - 10th February 2015

