



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Wednesday 28th January 2015

Weather & tide conditions: Conditions were fine with up to 20% cloud cover and a west to north westerly breeze of up to 5 knots. The tide was flowing for the duration of the sampling period. Perth recorded 0 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 CASMID. Surface water was well oxygenated at SCB2 and CASMID, and oxygenated at SAL and RIV, while bottom water was oxygenated at SCB2 and SAL, and low in oxygen at RIV and CASMID. Water temperature ranged from 25.3 to 30.5 °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 low in oxygen at BAC, NIC and KS9, hypoxic at KS7, PAC and ELL, and near anoxic at KENU300. Water temperature ranged from 21.2 to 27.1 °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 January 2015

