



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Tuesday 7th July 2015

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and a north to north easterly breeze of up to 3 knots. The tide was flowing for the duration of the sampling period. Perth recorded 15.4 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 saline throughout at SCB2, brackish over saline at SAL and RIV, then fresh over brackish at CASMID. Water was well oxygenated throughout at all sites, with the exception of bottom water which was low in oxygen at SAL, hypoxic at RIV and near anoxic at CASMID. Water temperature ranged from 15.1 to 18.7 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout at all sites. Water was oxygenated to well oxygenated at all sampled sites, with the exception of low oxygen bottom water at KENU300 and BAC. Water temperature ranged from 13.9 to 15.8 °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 - 7th July 2015

