



Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile

by
Water Science Branch, Department of Water

Date: Tuesday 9th June 2015

Weather & tide conditions: Conditions were fine with up to 20% cloud cover and a north easterly breeze of up to 3 knots. The tide was ebbing for the duration of the sampling period, and the water was flowing downstream over Kent Street Weir. Perth recorded 6.0 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Bacon Street, Camsell Way & 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 and SAL, and brackish over saline at RIV and CASMID. Water was well oxygenated throughout at SCB2, well oxygenated over oxygenated at SAL, well oxygenated over hypoxic at RIV and low oxygen over near anoxic bottom water at CASMID. Water temperature ranged from 13.6 to 19.2 °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 and KENU300. Water was mostly well oxygenated throughout with the exception of low oxygen bottom water at KEN, near anoxic bottom water at KENU300, and hypoxic bottom water at KS7. Surface and bottom water at KS9 was oxygenated but a layer of well oxygenated water from 2.5 to 4.5 m was recorded. Water temperature ranged from 14.1 to 17.3 °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 - 9th June 2015

