



**Environmental Monitoring and Reporting
Canning River Estuary ~ Weekly profile**

by
Water Science Branch, Department of Water

Date: Tuesday 20th September 2016

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a south easterly breeze of up to 2 knots. The tide was flowing for the duration of the sampling period. Perth recorded 19.6 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Road oxygenation plant was operational the week prior to sampling. The Bacon Street and Camsell Way oxygenation plants were not operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish throughout SCB2, fresh over brackish at SAL and fresh throughout RIV. Water was well oxygenated to oxygenated, with the exception of hypoxic bottom water at SCB2. Water temperature ranged from 13.2 to 16.3 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and well oxygenated throughout all sites. Water temperature ranged from 12.1 to 13.8 °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 - 20th September 2016

