



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

**by  
Water Science Branch, Department of Water**

Date: Tuesday 8<sup>th</sup> November 2016

Weather & tide conditions: Conditions were fine with up to 0% cloud cover and a south to south westerly breeze up to 6 knots. The tide was ebbing 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: Nicholson Road oxygenation plant was operational the week prior to sampling, while Bacon Street oxygenation plant was not operational.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was mostly well oxygenated with low oxygen bottom water at CASMID. Water was saline at SCB2, brackish over saline at SAL brackish throughout at RIV and fresh throughout at CASMID. Water temperature ranged from 20.9 to 23.5 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Surface water was well oxygenated to oxygenated at all sites. Bottom water was near anoxic at KEN, KENU300 and BAC, hypoxic at BACD500, PO2, PAC and ELL, low oxygen at KS7, MASD50 and NIC and oxygenated at GRE, NICD200 and KS9. Water temperature ranged from 16.8 to 22.9 ° 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 - 8th November 2016

