



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

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

Date: Wednesday 27th January 2016

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a predominately north easterly breeze of up to 4 knots. The tide was ebbing for the duration of the sampling period. Perth recorded 7 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 hyper saline at SCB2, saline at SAL, brackish surface water over saline bottom water at RIV and fresh surface water over saline bottom water at CASMID. Water was oxygenated at all sites with the exception of low oxygen bottom water at RIV and well oxygenated water over near anoxic bottom water at CASMID. Water temperature ranged from 25.6 to 31.8 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Water was well oxygenated to oxygenated throughout all sites, with the exception of low oxygen bottom water at KS7 and KEN, near anoxic bottom water at KENU300, low oxygen surface water over near anoxic bottom water at ELL and hypoxic bottom water at PAC. Water temperature ranged from 22.5 to 27.7 ° 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 - 27th January 2016

