



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

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

Date: Tuesday 3<sup>rd</sup> February 2015

Weather & tide conditions: Conditions were cloudy with up to 98% cloud cover and a north easterly breeze of up to 4 knots. The tide was ebbing then flooding during the sampling period and water was flowing downstream over the Kent St weir boards. Perth recorded 40 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: Bacon St and Camsell Way were operational the week prior to sampling but these plants were offline in the night preceding monitoring, due to storm related power outages. Nicholson Rd was operational the week prior to sampling for testing.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline throughout with the exception of hypersaline bottom water at SCB2, and brackish surface water at RIV. Water was well oxygenated over oxygenated bottom water at SCB2 and SAL, and oxygenated over hypoxic bottom water at RIV. Water temperature ranged from 23.3 to 24.9 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout. Surface water was oxygenated to low in oxygen at all sites. Bottom water was oxygenated at KEN, hypoxic at KENU300, and low in oxygen at all other sites. Water temperature ranged from 23.0 to 24.7 °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

