



Department of Biodiversity,  
Conservation and Attractions



Biodiversity and  
Conservation Science

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# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

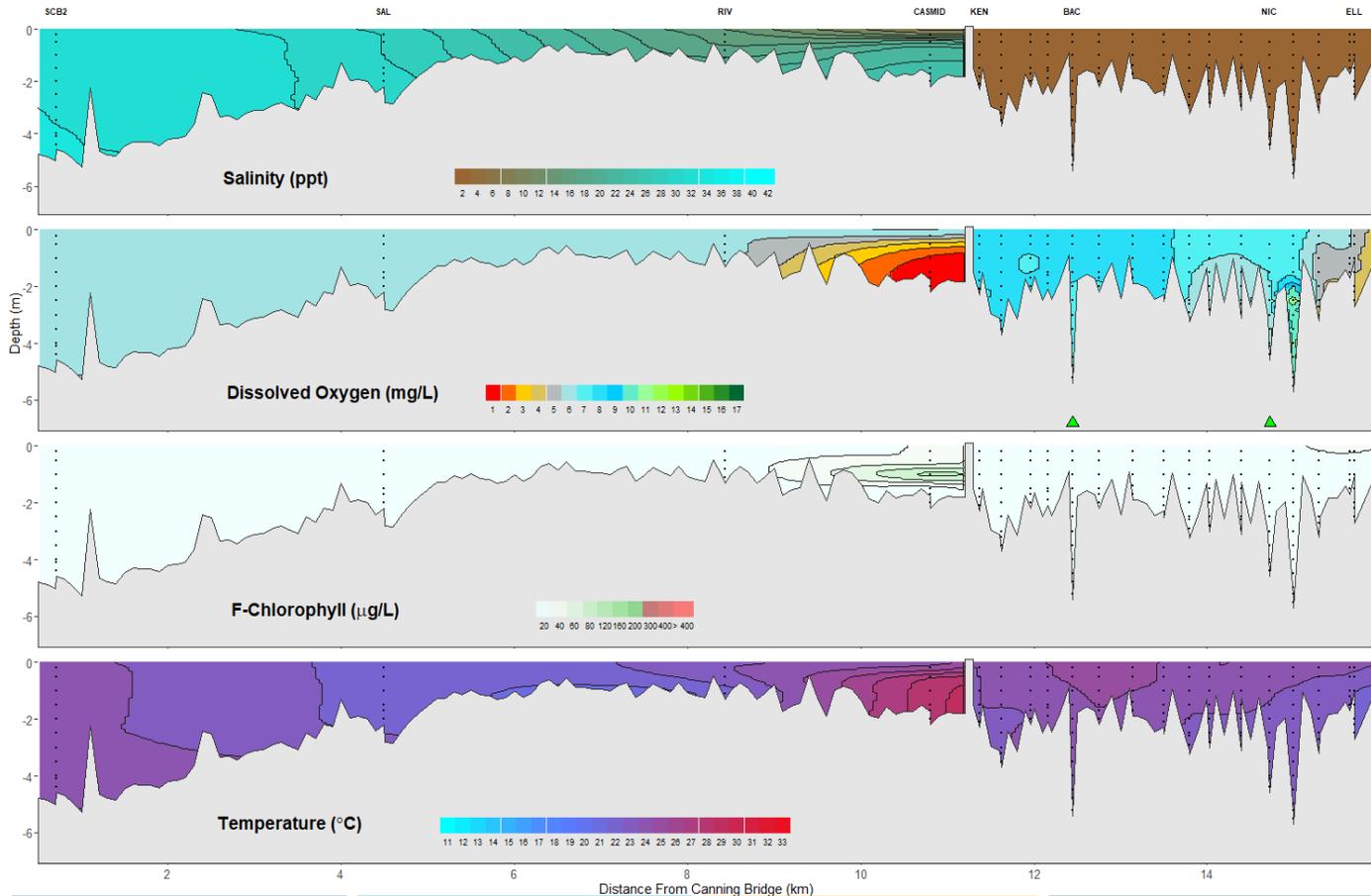
### Canning Estuary and Lower Canning River

15<sup>th</sup> December 2020

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## Canning Estuary and Lower Canning River- Water Quality Profiles – 15<sup>th</sup> December 2020



Date: 15<sup>th</sup> December 2020

Weather & tide conditions: Conditions were clear with a predominantly southerly breeze of up to 9 knots. The predicted tides at Barrack St were 0.41 m at 9:26 am (low tide) and 1.13 m at 11:10 pm (high tide). Gosnells recorded 7.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and the Nicholson Rd oxygenation plants were both triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline from SCB2 to SAL and brackish from RIV to CASMID. Waters were oxygenated except bottom waters at CASMID which were anoxic. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 21.6 to 27.7 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen at PAC and ELL. Chlorophyll fluorescence was highest at ELL indicating higher microalgal activity in that area. Water temperature ranged from 21.5 to 24.7 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at [wir.water.wa.gov.au](http://wir.water.wa.gov.au).

**Oxygenation Plant Operational Status:**

- ▲ Operating for part or all of the 24 hours prior to sampling
- ▲ Operable but not triggered to operate in the 24 hours prior to sampling
- ▲ Inoperable for part or all of the 24 hours prior to sampling

**Definitions:**

Salinity – fresh <5, brackish 5-25, saline 25-35, hypersaline >35  
Dissolved oxygen – well oxygenated >6mg/L, oxygenated >4-6mg/L, low oxygen >2-4mg/L, hypoxic 0.5-2mg/L, anoxic <0.5mg/L