



Department of Biodiversity,  
Conservation and Attractions



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# Swan Canning Estuary Water Quality Monitoring Project

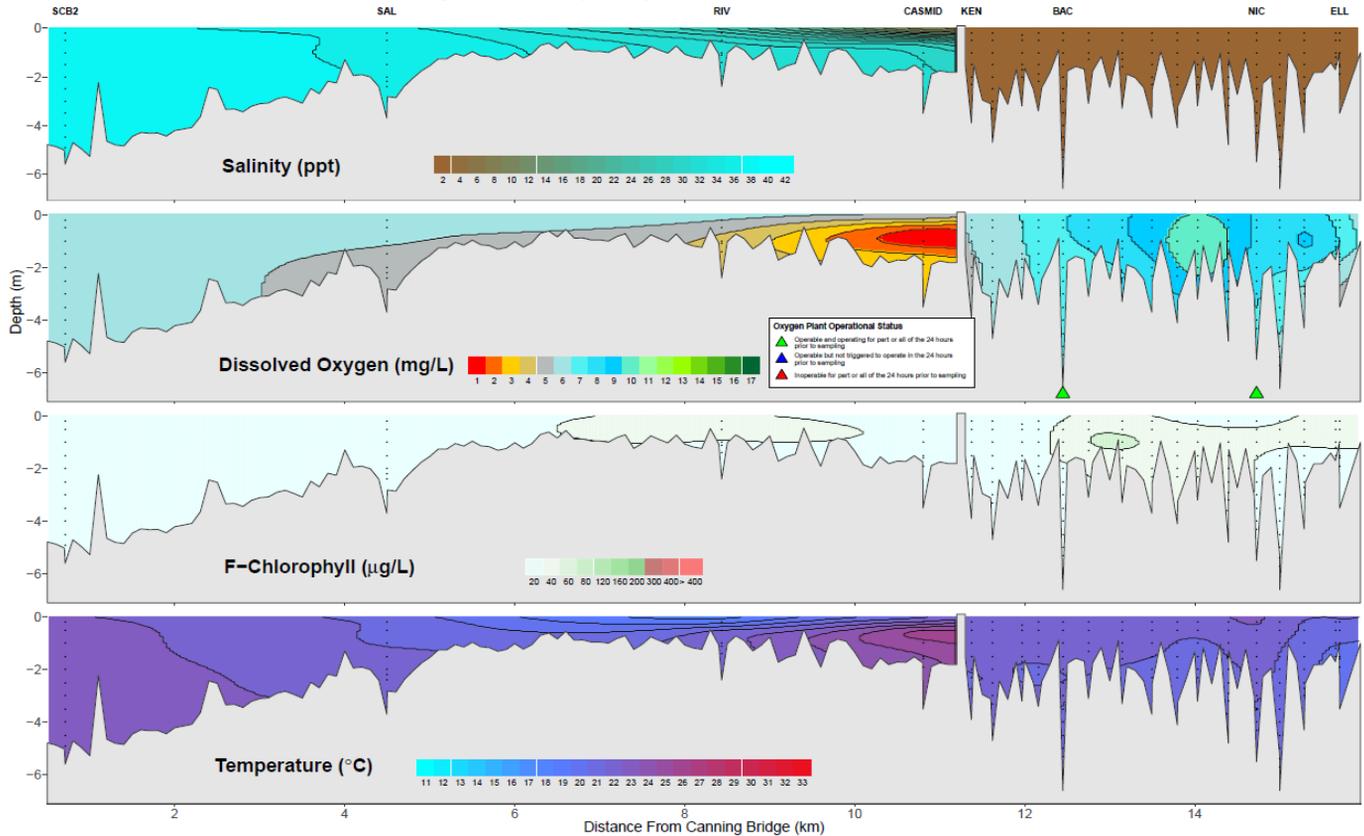
## Weekly Profile Report for the Canning Estuary and Lower Canning River

31<sup>st</sup> March 2020

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### Canning River Estuary – Physical-Chemical Profile – 31st Mar 2020



Date: 31<sup>st</sup> March 2020

Weather & tide conditions: Conditions were clear with a predominantly easterly breeze of up to 5 knots. The predicted tides at Barrack St were 0.65 m at 3:20 am (low tide) and 1.09 m at 3:10 pm (high tide) and flow was observed at Kent St Weir. Gosnells recorded 2.3 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd and Bacon St 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 between SCB2 and RIV and brackish over saline at CASMID. Surface waters were oxygenated between SCB2 and RIV and bottom waters were low in oxygen at RIV. Waters at CASMID were low in oxygen or hypoxic. Chlorophyll fluorescence was highest at RIV indicating higher microalgal activity in that area. Water temperature ranged from 20.8 to 25.1 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and waters were oxygenated or well oxygenated throughout this zone. Chlorophyll fluorescence was highest at PO2 indicating higher microalgal activity in that area. Water temperature ranged from 19.6 to 22.1 °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