



Department of Biodiversity,  
Conservation and Attractions



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# Swan Canning Estuary Water Quality Monitoring Project

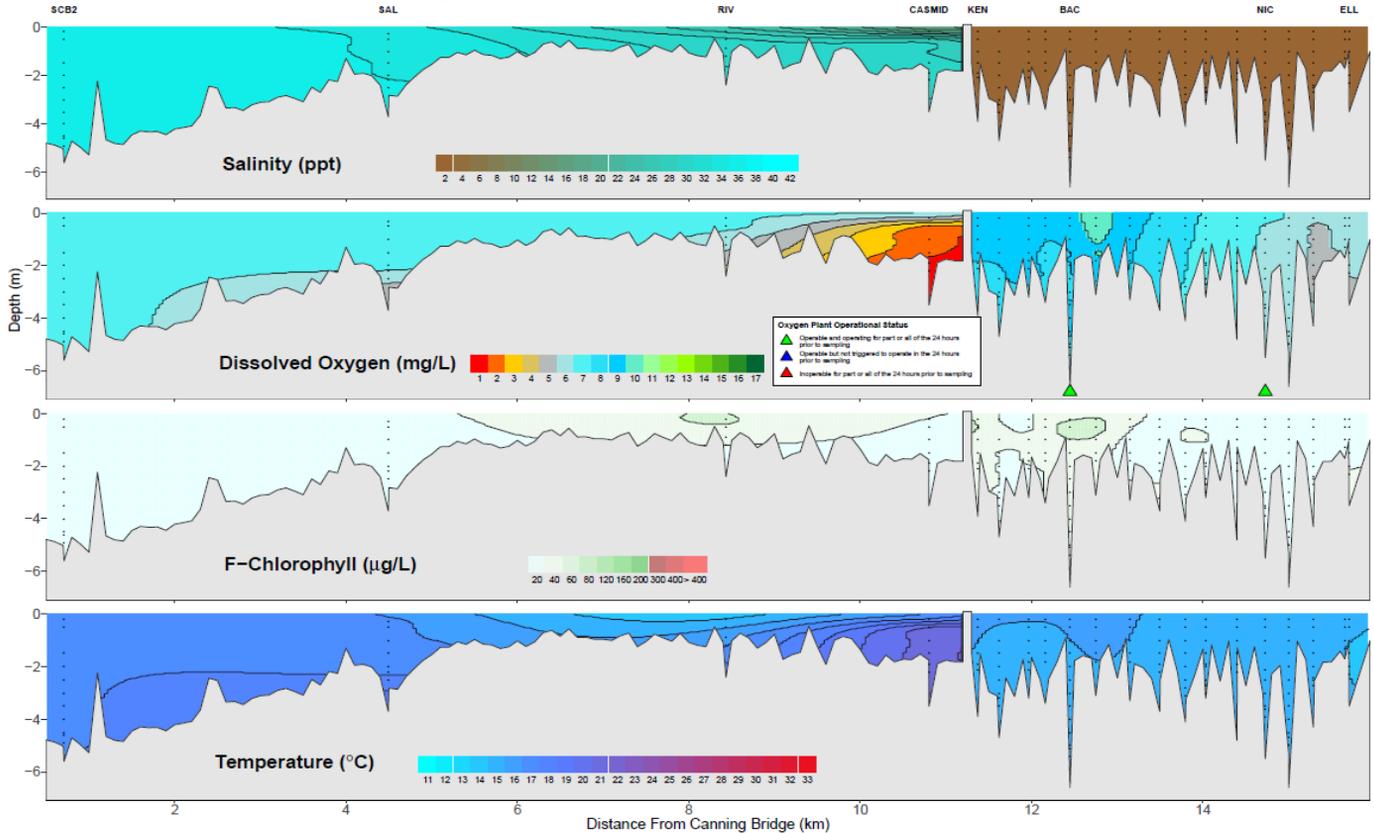
## Weekly Profile Report for the Canning Estuary and Lower Canning River

19<sup>th</sup> May 2020

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### Canning River Estuary - Physical-Chemical Profile - 19th May 2020



Date: 19<sup>th</sup> May 2020

Weather & tide conditions: Conditions were clear with a predominantly easterly breeze of up to 4 knots. The predicted tides at Barrack St were 0.84 m at 2:47 am (low tide overnight), 1.09 m at 9:57 am (high tide) and 0.87 m at 6:16 pm (second low tide). Flow was not observed at Kent St Weir. Gosnells recorded no 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 from SCB2 to RIV and brackish over saline at CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were hypoxic at CASMID. Chlorophyll fluorescence was highest at RIV indicating higher microalgal activity in that area. Water temperature ranged from 14.1 to 20.5 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and waters were oxygenated or well oxygenated. Chlorophyll fluorescence was highest at BAC indicating higher microalgal activity in that area. Water temperature ranged from 13.9 to 15.4 °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

**Recommended reference:** Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning Estuary water quality monitoring weekly profile report, Lower to Upper Swan Estuary 19<sup>th</sup> May 2020*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)