



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

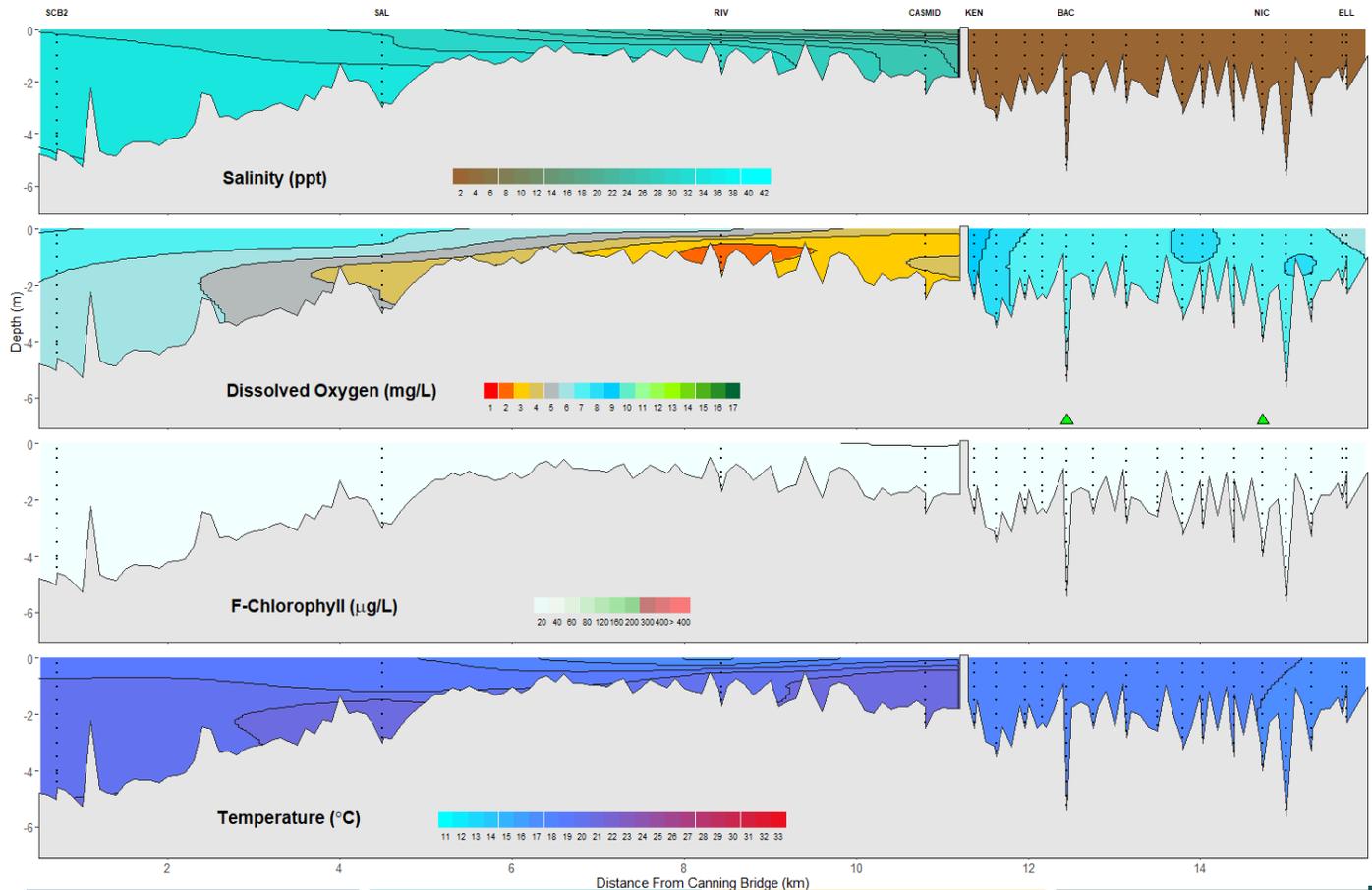
### Canning Estuary and Lower Canning River

4<sup>th</sup> May 2021

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## Canning Estuary and Lower Canning River - Water Quality Profiles – 4<sup>th</sup> May 2021



Date: 4<sup>th</sup> May 2021

Weather & tide conditions: Conditions were overcast with a light south easterly breeze of up to 4 knots. The predicted tides at Barrack St were 1.13 m at 7:46 am (high tide) and 0.82 m at 7:44 pm (low tide).

NB: Reliable rainfall data for this catchment was not available.

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operational and 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 SAL and brackish over saline from RIV to CASMID. Surface waters were oxygenated or well oxygenated except at CASMID which were low in oxygen. Bottom waters were low in oxygen at CASMID and hypoxic at RIV. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 16.8 to 20.6 °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 MACD50 indicating higher microalgal activity in that area. Water temperature ranged from 16.5 to 17.8 °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 2021. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 4<sup>th</sup> May 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)