



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**

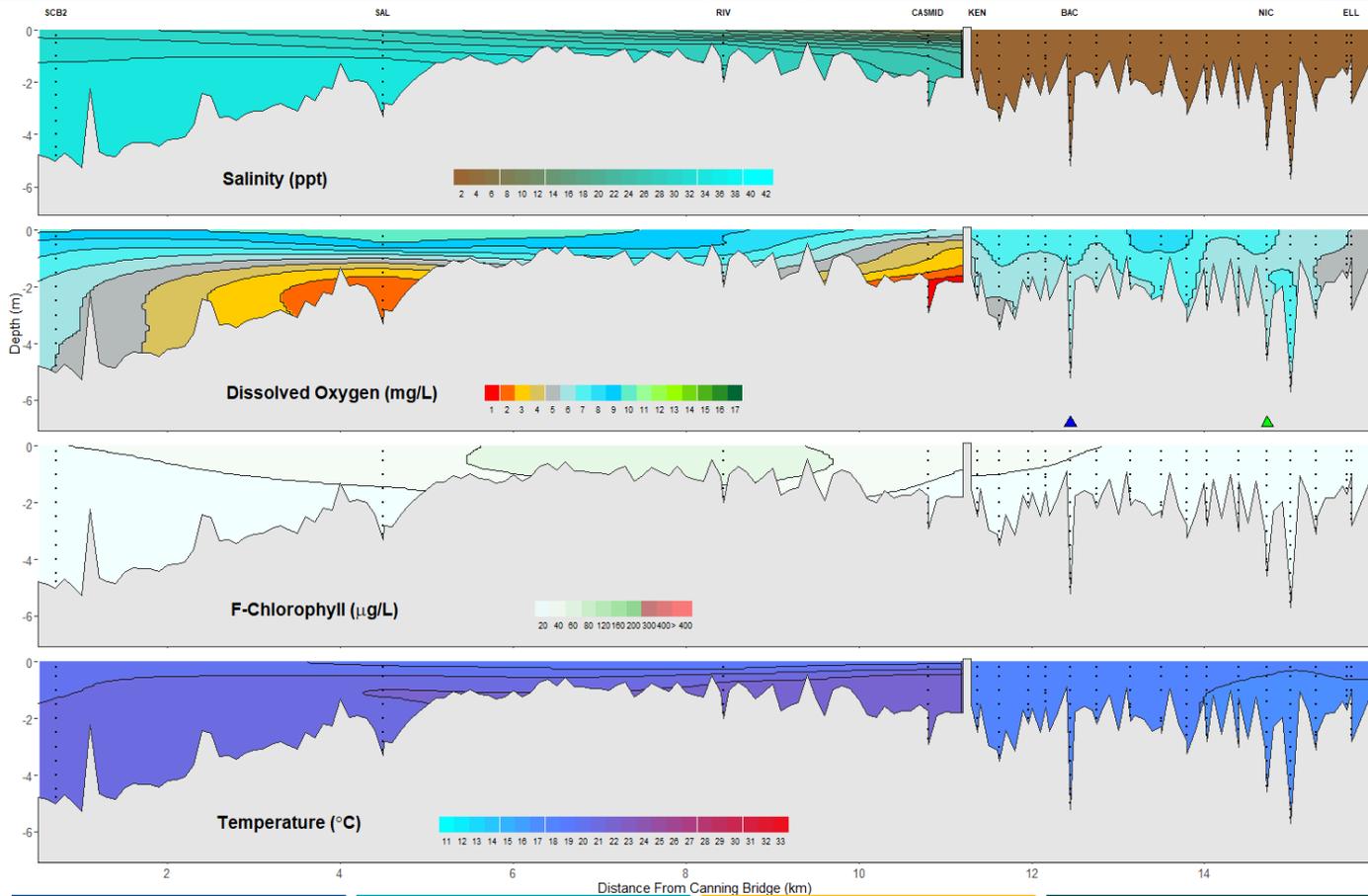
**Canning Estuary and Lower Canning River**

**12<sup>th</sup> May 2021**

**Prepared by**

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## Canning Estuary and Lower Canning River - Water Quality Profiles – 12<sup>th</sup> May 2021



Date: 12<sup>th</sup> May 2021

NB: Monitoring delayed due to vessel availability on 10 May 2021.

Weather & tide conditions: Conditions were overcast with a light south westerly breeze of up to 1.5 knots. The predicted tides at Barrack St were 0.82 m at 2:56 am (low tide) and 1.24 m at 11:15 pm (high tide).

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

Oxygenation: The Bacon St oxygenation plant was operational but not triggered to provide oxygen and the Nicholson Rd oxygenation plant was 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 and bottom waters were low in oxygen at SAL and anoxic at CASMID. Chlorophyll fluorescence was highest at RIV 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 BACD300 indicating higher microalgal activity in that area. Water temperature ranged from 16.4 to 17.9 °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 12<sup>th</sup> May 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)