



# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

### Canning Estuary and Lower Canning River

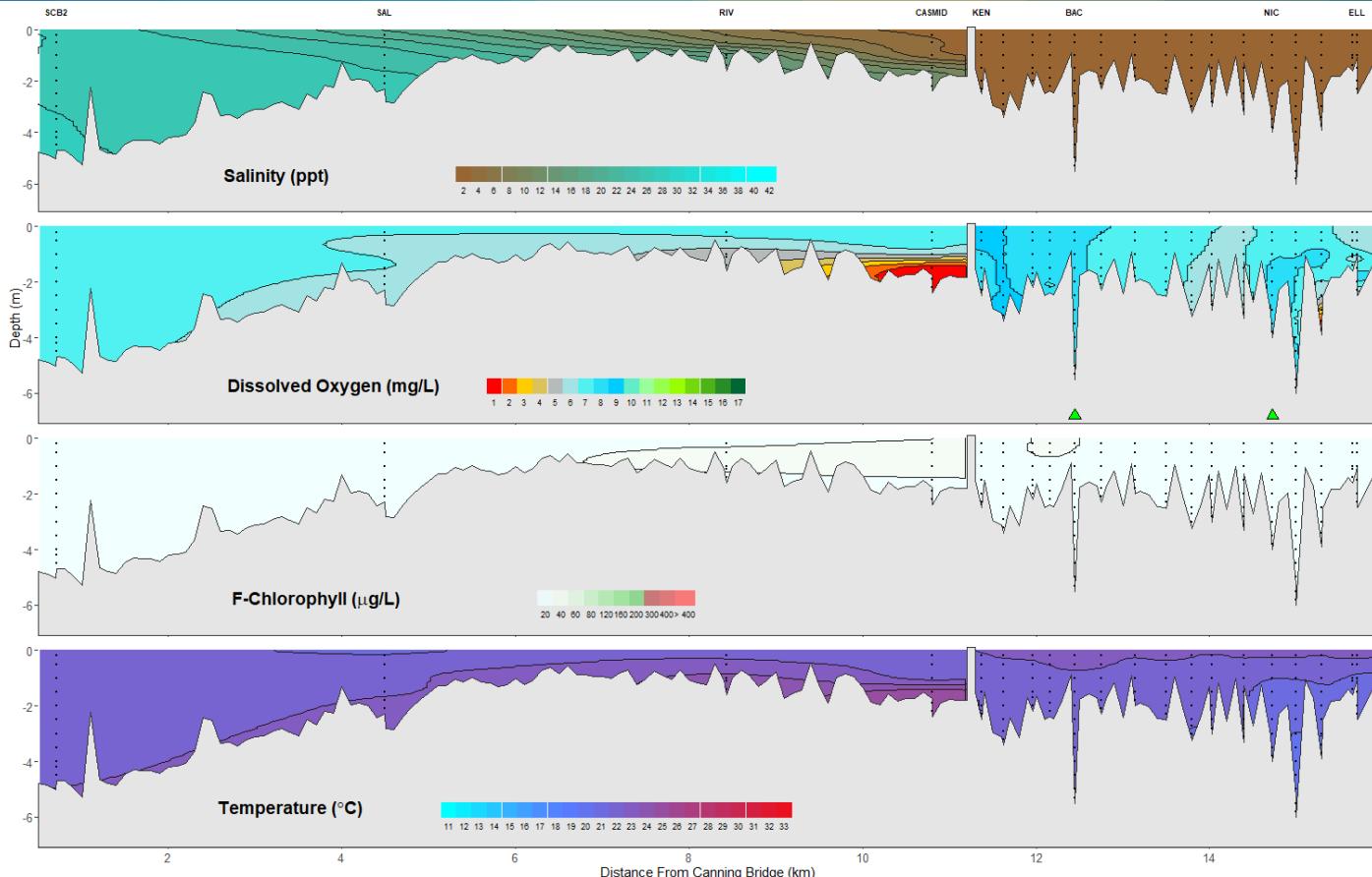
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## Canning Estuary and Lower Canning River - Water Quality Profiles – 23 November 2021





Date: 23 November 2021

Weather & tide conditions: Conditions were clear with an easterly breeze of up to 8 knots. The predicted tides at Barrack St were 1.09 m at 12:00 am (high tide) and 0.55 m at 10:28 am (low tide). Perth recorded 3.8 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (SCB2 to CASMID): The Canning Estuary was saline at SCB2, brackish from SAL to RIV and fresh over brackish at CASMID. Waters were oxygenated or well oxygenated except bottom waters at CASMID which were anoxic. Chlorophyll fluorescence was highest at RIV indicating higher microalgal activity in this area. Water temperature ranged from 21.0 to 24.6 °C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh. Waters were oxygenated or well oxygenated except bottom waters at PAC which were anoxic. Chlorophyll fluorescence was highest at BACD300 indicating higher microalgal activity in this area. Water temperature ranged from 19.3 to 22.4 °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 >6 mg/L, oxygenated >4-6 mg/L, low oxygen >2-4 mg/L, hypoxic 0.5-2 mg/L, anoxic <0.5 mg/L