

# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

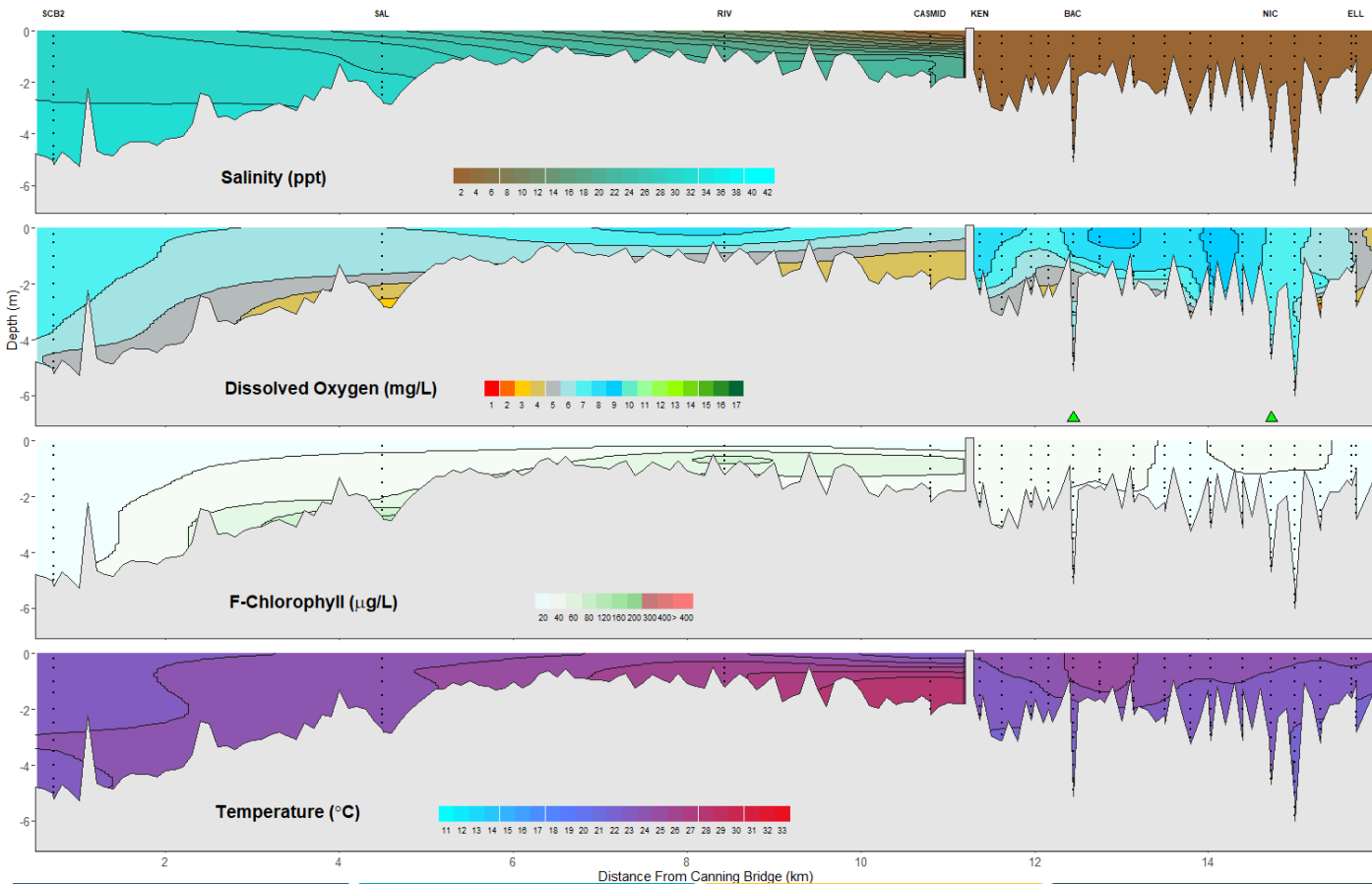
### Canning Estuary and Lower Canning River

6<sup>th</sup> December 2022

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# Canning Estuary and Lower Canning River - Water Quality Profiles - 6<sup>th</sup> December 2022



Date: 6<sup>th</sup> December 2022

Weather & tide conditions: Conditions were cloudy with an easterly morning breeze turning southerly, with gusts of up to 10 knots. The predicted tides at Barrack St were 0.55 m at 7:57 am (low tide) and 1.12 m at 9:40 pm (high tide). Perth recorded no rainfall in the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (SCB2 to CASMID): Waters were saline from SCB2 to SAL, brackish at RIV, and fresh over brackish at CASMID. Waters were oxygenated or well oxygenated throughout, except for bottom waters at SAL and CASMID which were low in oxygen. Chlorophyll fluorescence was low throughout, apart from bottom waters at SAL and RIV in which readings were moderate. Water temperatures ranged from 22.7 to 27.8°C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh throughout. Waters were oxygenated or well oxygenated, except for bottom waters at BAC and ELL which were low in oxygen. Chlorophyll fluorescence was low throughout, and water temperatures ranged from 21.7 to 24.3 °C at the time of sampling.

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<sup>-1</sup>, oxygenated >4-6 mg L<sup>-1</sup>, low oxygen >2-4 mg L<sup>-1</sup>, hypoxic 0.5-2 mg L<sup>-1</sup>, anoxic <0.5 mg L<sup>-1</sup>

Chlorophyll fluorescence (mod/high flow): low < 60 µg L<sup>-1</sup>, moderate 60-160 µg L<sup>-1</sup>, high 160-400 µg L<sup>-1</sup>, extreme > 400 µg L<sup>-1</sup>