

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

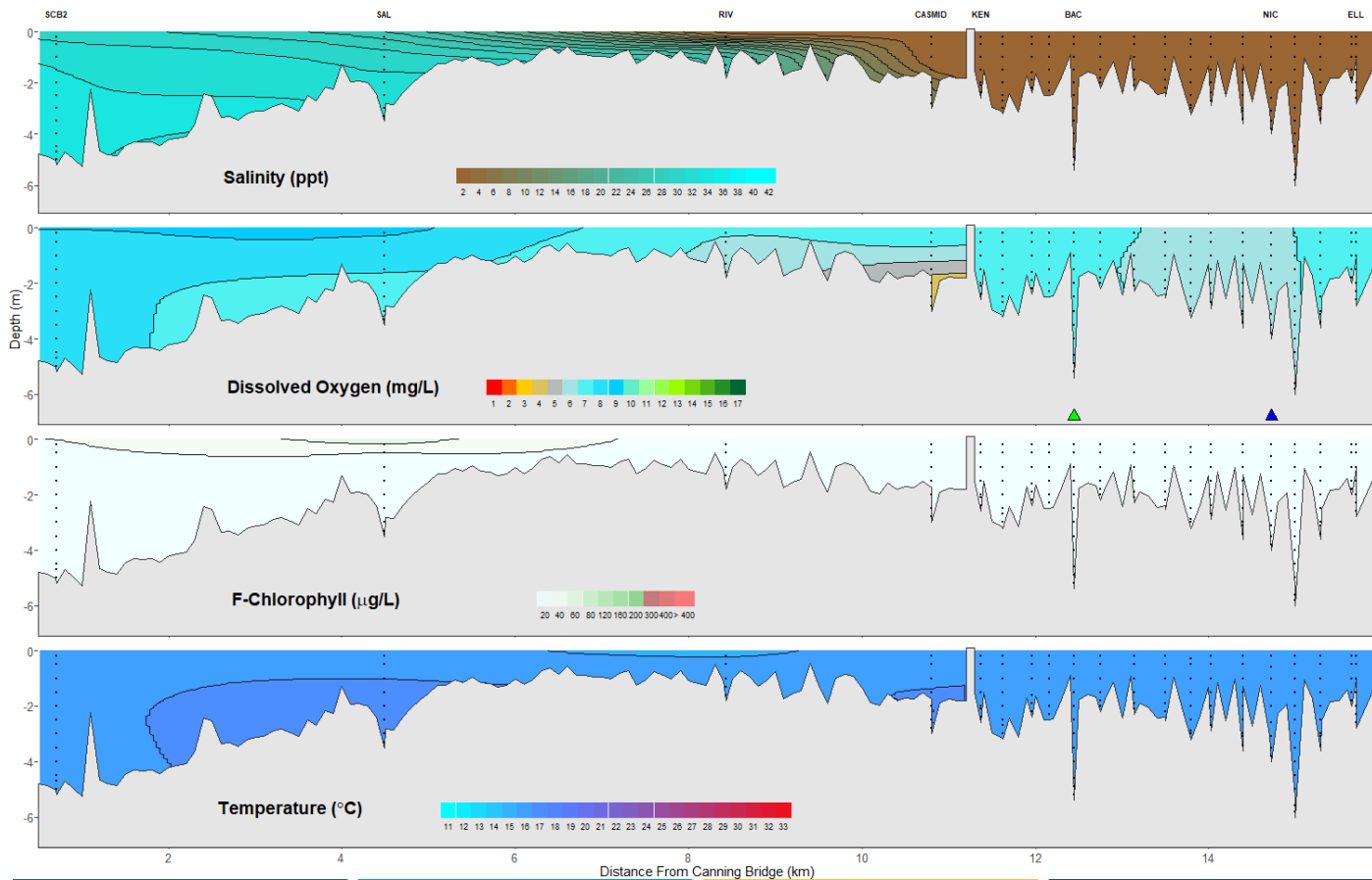
Canning Estuary and Lower Canning River

14 June 2022

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Canning Estuary and Lower Canning River - Water Quality Profiles – 14 June 2022



Date: 14 June 2022

Weather & tide conditions: Conditions were overcast with a slight northerly breeze of up to 3.3 knots. The predicted tides at Barrack St were 1.36 m at 10:41 am (high tide) and 0.65 m at 9:30 pm (low tide). Perth recorded 38.6 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd oxygenation plant was operable but not triggered however the Bacon St oxygenation plant was triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): Waters were saline from SCB2 to SAL and fresh over brackish from RIV to CASMID. Surface waters were oxygenated or well oxygenated throughout and bottom waters were low in oxygen at CASMID. Chlorophyll fluorescence was low and water temperatures ranged from 14.9 to 16.4 °C at the time of sampling.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and waters were oxygenated or well oxygenated throughout. Chlorophyll fluorescence was low and water temperatures ranged from 15.6 to 15.9 °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.

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

Chlorophyll fluorescence (no/low flow): low < 50 µg L⁻¹, moderate 50-150 µg L⁻¹, high 150-400 µg L⁻¹, extreme > 400 µg L⁻¹