

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

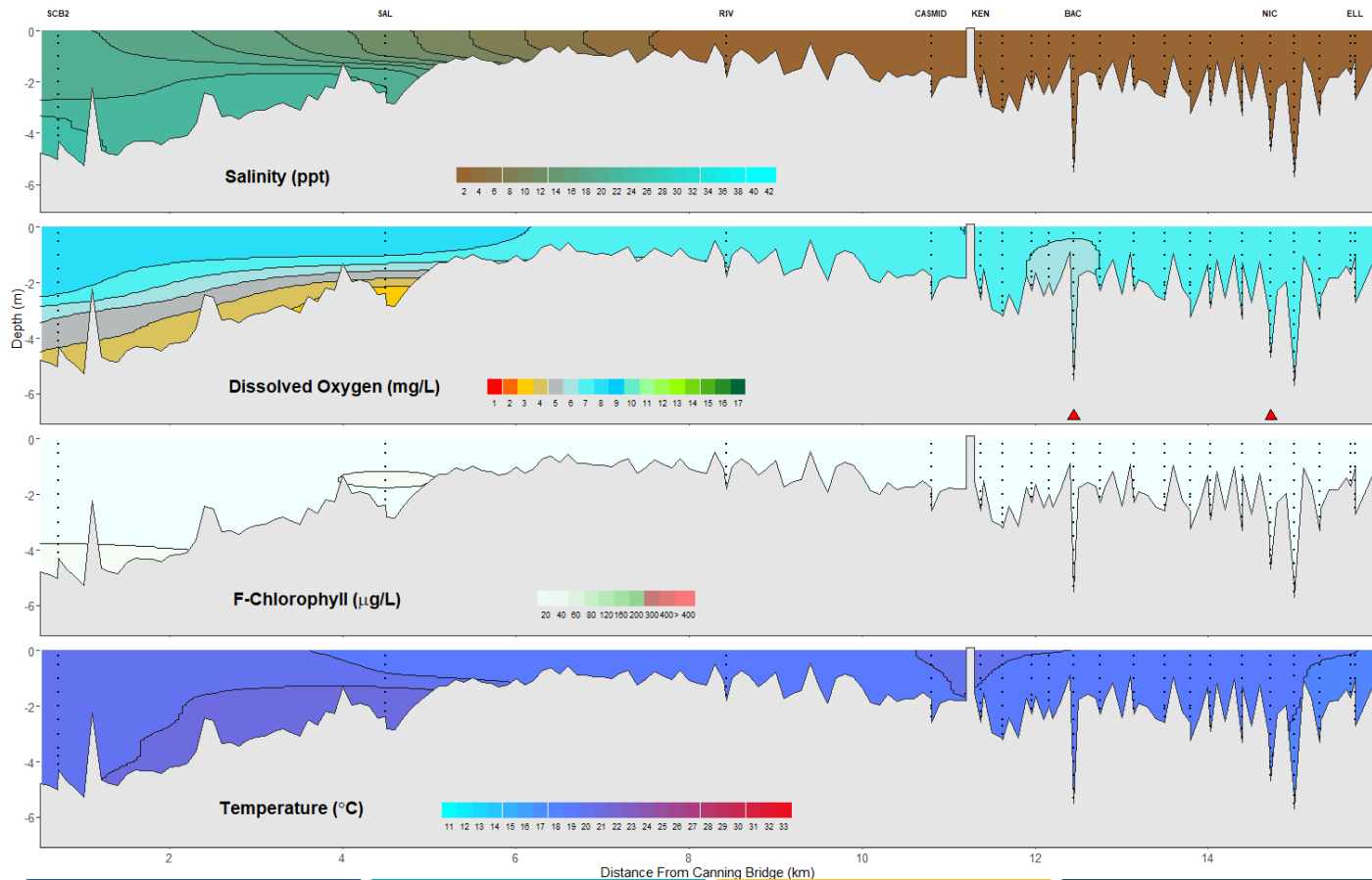
Canning Estuary and Lower Canning River

2 November 2021

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Canning Estuary and Lower Canning River - Water Quality Profiles – 2 November 2021



Date: 2 November 2021

Weather & tide conditions: Conditions were overcast with a north westerly breeze of up to 8 knots. The predicted tides at Barrack St were 0.73 m at 4:12 am (low tide), 0.85 m at 9:49 am (high tide) and 0.71m at 3:41 pm (second low tide). Perth recorded 28.6 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were not operational in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was brackish from SCB2 to SAL and fresh from RIV to CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen at SAL. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 17.7 to 20.7 °C.

Lower Canning River (upstream of KEN): The Lower Canning River was fresh, waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 17.7 to 19.3 °C.

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

Recommended reference: Department of Biodiversity, Conservation and Attractions 2021. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 2 November 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)