



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

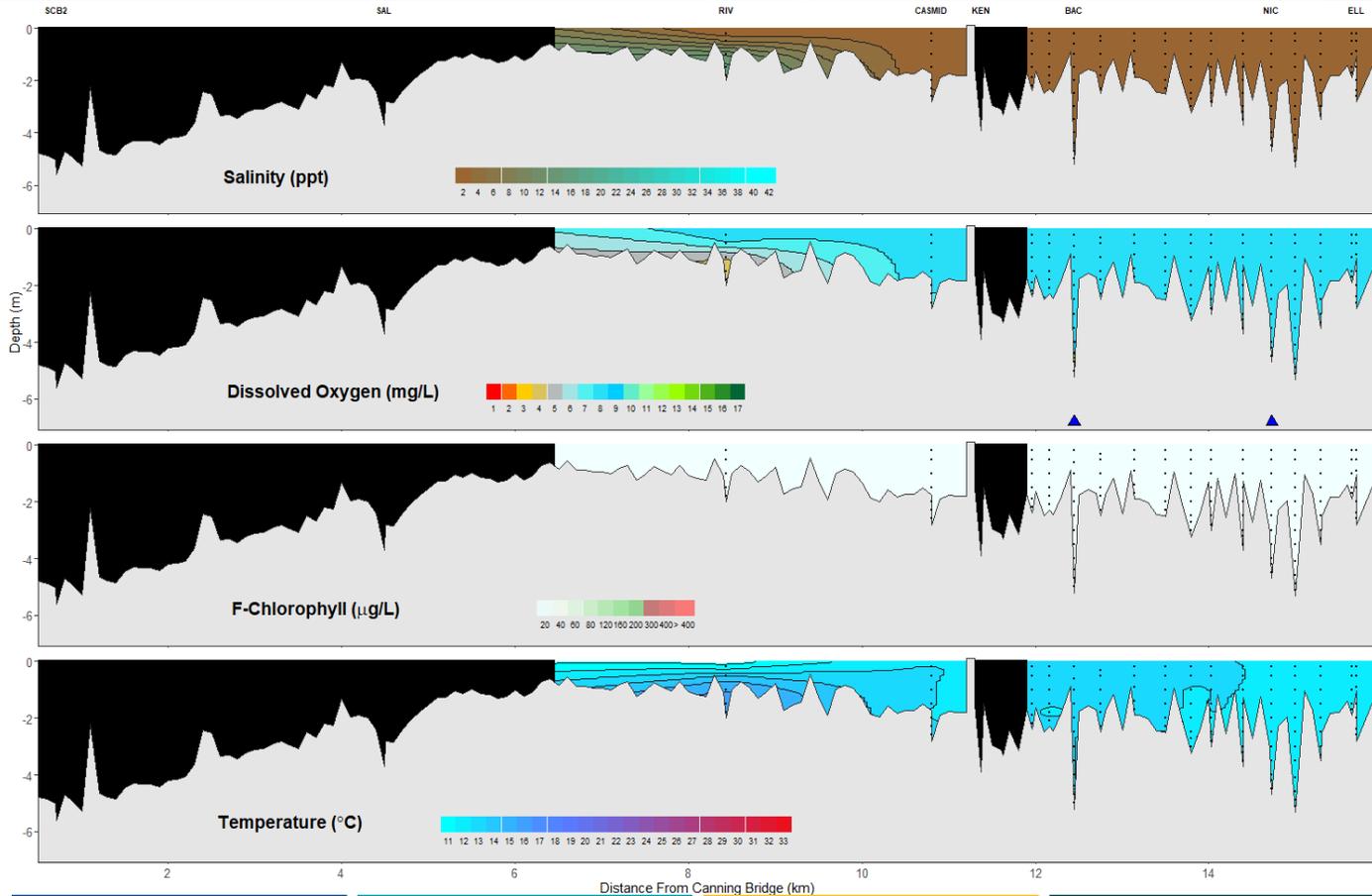
Canning Estuary and Lower Canning River

22nd June 2021

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Canning Estuary and Lower Canning River - Water Quality Profiles – 22nd June 2021



Date: 22nd June 2021

Weather & tide conditions: Conditions were clear with a light easterly breeze of up to 2 knots. The predicted tide at Barrack St was 1.27 m at 9:09 am (high tide) and 0.74 m at 7:37 pm (low tide). Perth Airport recorded 34.2 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

NB: Reliable data was not available from SCB2, SAL and KEN this week.

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

Canning Estuary (RIV to CASMID): The Canning Estuary was fresh over brackish at RIV and fresh at CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen at RIV. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 10.2 to 15.7 °C.

Lower Canning River (upstream of KENU300): The Lower Canning River was fresh over brackish from KENU300 to BAC and fresh from BACU300 to ELL. Waters were oxygenated or well oxygenated and bottom waters were super saturated between KENU300 and BAC. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 11.6 to 15.4 °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 >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 22nd June 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)