

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

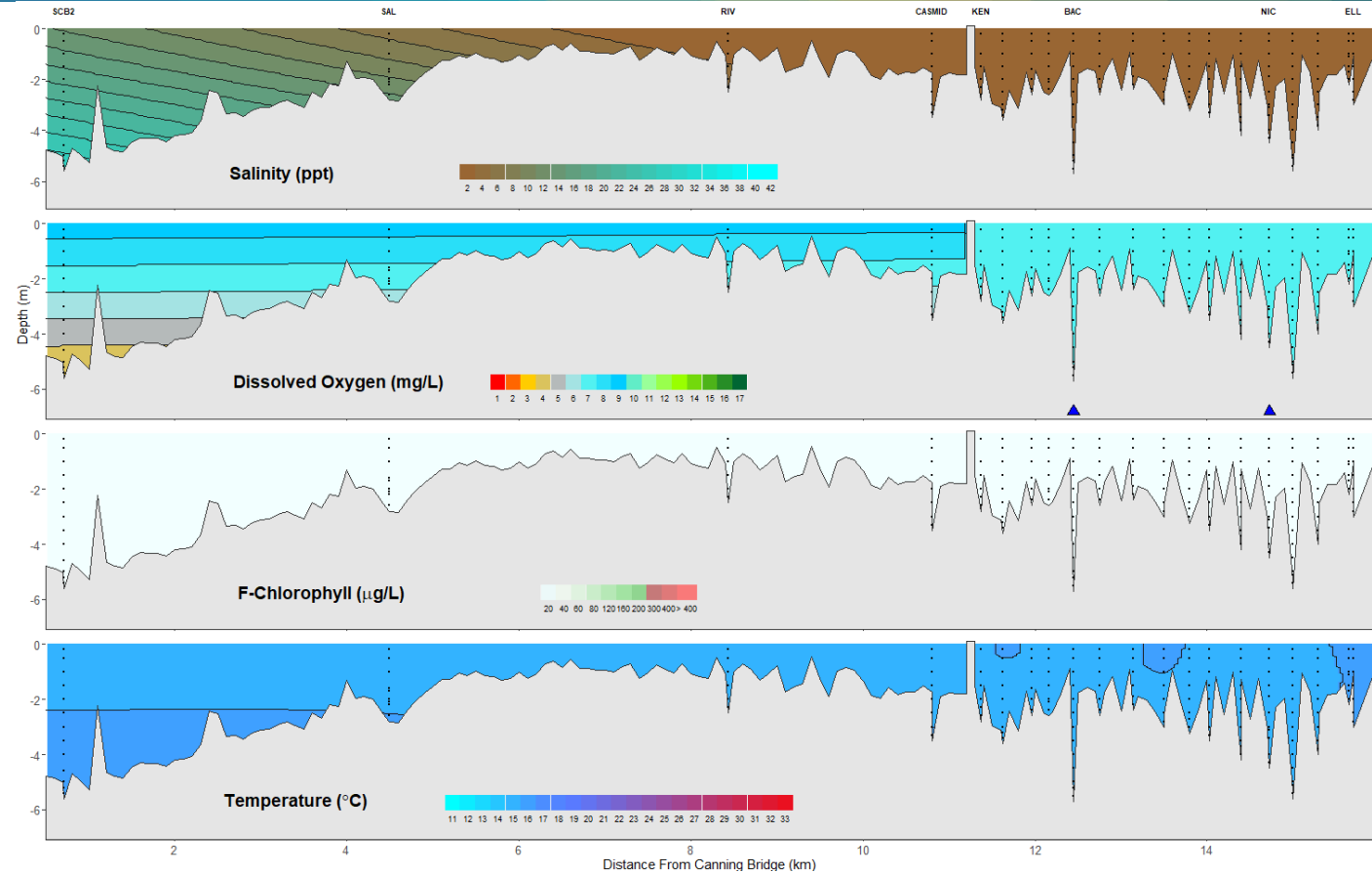
Canning Estuary and Lower Canning River

13th July 2021

Prepared by

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Canning Estuary and Lower Canning River - Water Quality Profiles – 13th July 2021



Date: 13th July 2021

NB: Kent Street Weir was opened to alleviate winter flows on 9 July 2021.

Weather & tide conditions: Conditions were patchy with a westerly breeze of up to 12 knots. The predicted tides at Barrack St were 1.23 m at 12:43 pm (high tide) and 0.75 m at 10:50 pm (low tide). Perth Airport recorded 86 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (SCB2 to CASMID): The Canning Estuary was brackish over saline at SCB2, brackish at SAL and fresh from RIV to CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen between SCB2 and SAL. Chlorophyll fluorescence low throughout this zone. Water temperature ranged from 14.4 to 15.4 °C.

Lower Canning River (upstream of KEN): The Lower Canning River was fresh, waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.9 to 15.1 °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 13th July 2021*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)