



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

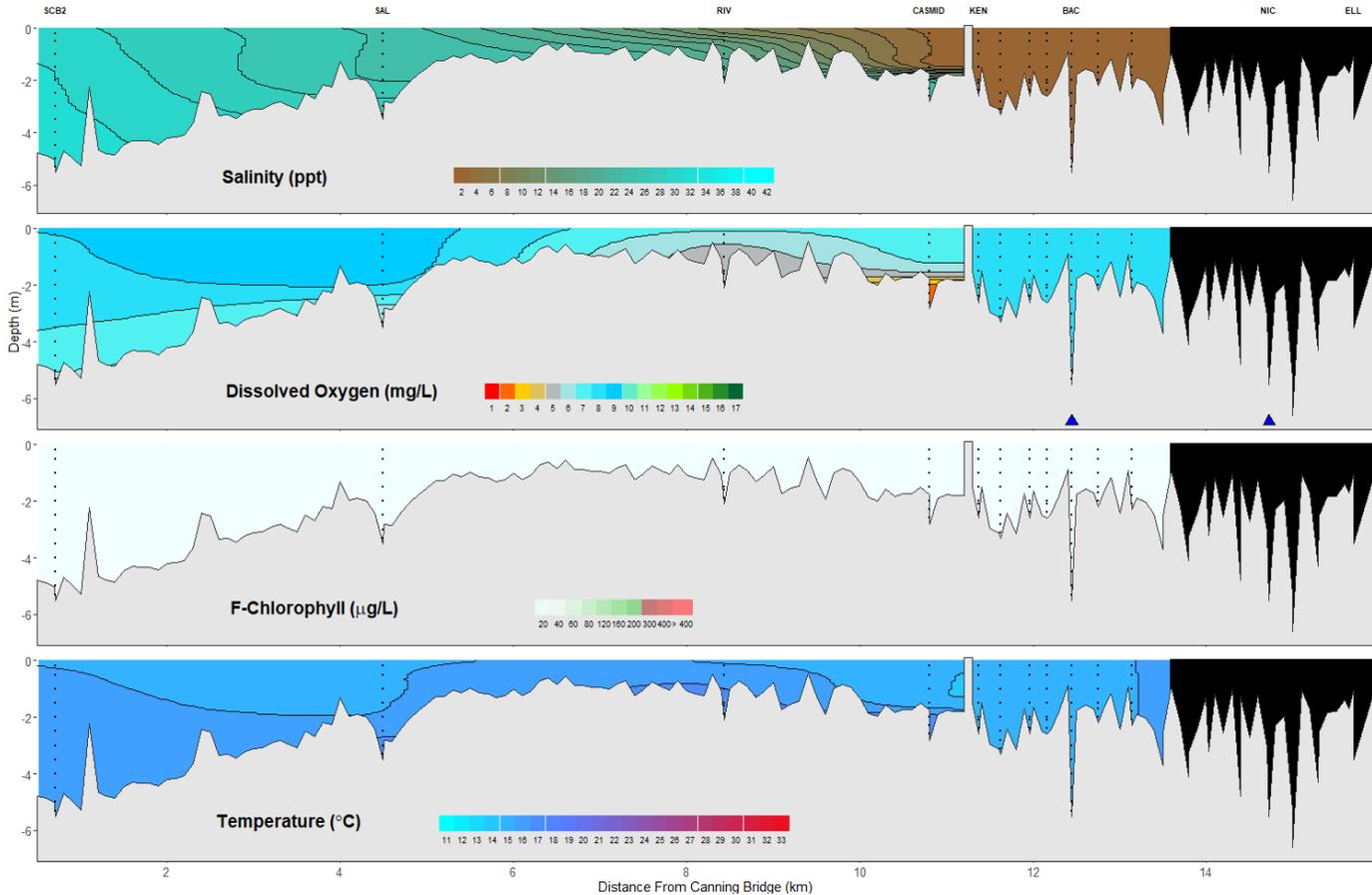
Canning Estuary and Lower Canning River

14th July 2020

Prepared by

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Canning Estuary and Lower Canning River- Water Quality Profiles- 14th July 2020



Date: 14th July 2020

Weather & tide conditions: Conditions were overcast with a predominantly westerly breeze of up to 8 knots. The predicted tides at Barrack St were 1.03 m at 7:02 am (high tide) and 0.78 m at 8:08 pm (low tide). Flow was observed at Kent St Weir. Reliable rainfall data was not available from the Gosnells weather station for the week prior to sampling (Bureau of Meteorology).

NB: The monitoring vessel was unable to navigate beyond Greenfields Bridge (GRE) due to highly elevated water levels in the Canning River.

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

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline at SCB2, brackish over saline at SAL, brackish at RIV and fresh over brackish at CASMID. Waters were oxygenated or well oxygenated except bottom waters at CASMID which were hypoxic. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.9 to 16.6 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and waters were well oxygenated from KEN to PO2 (data not available from GRE to ELL). Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.1 to 14.9 °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