



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
Conservation Science

*We're working for
Western Australia.*

Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

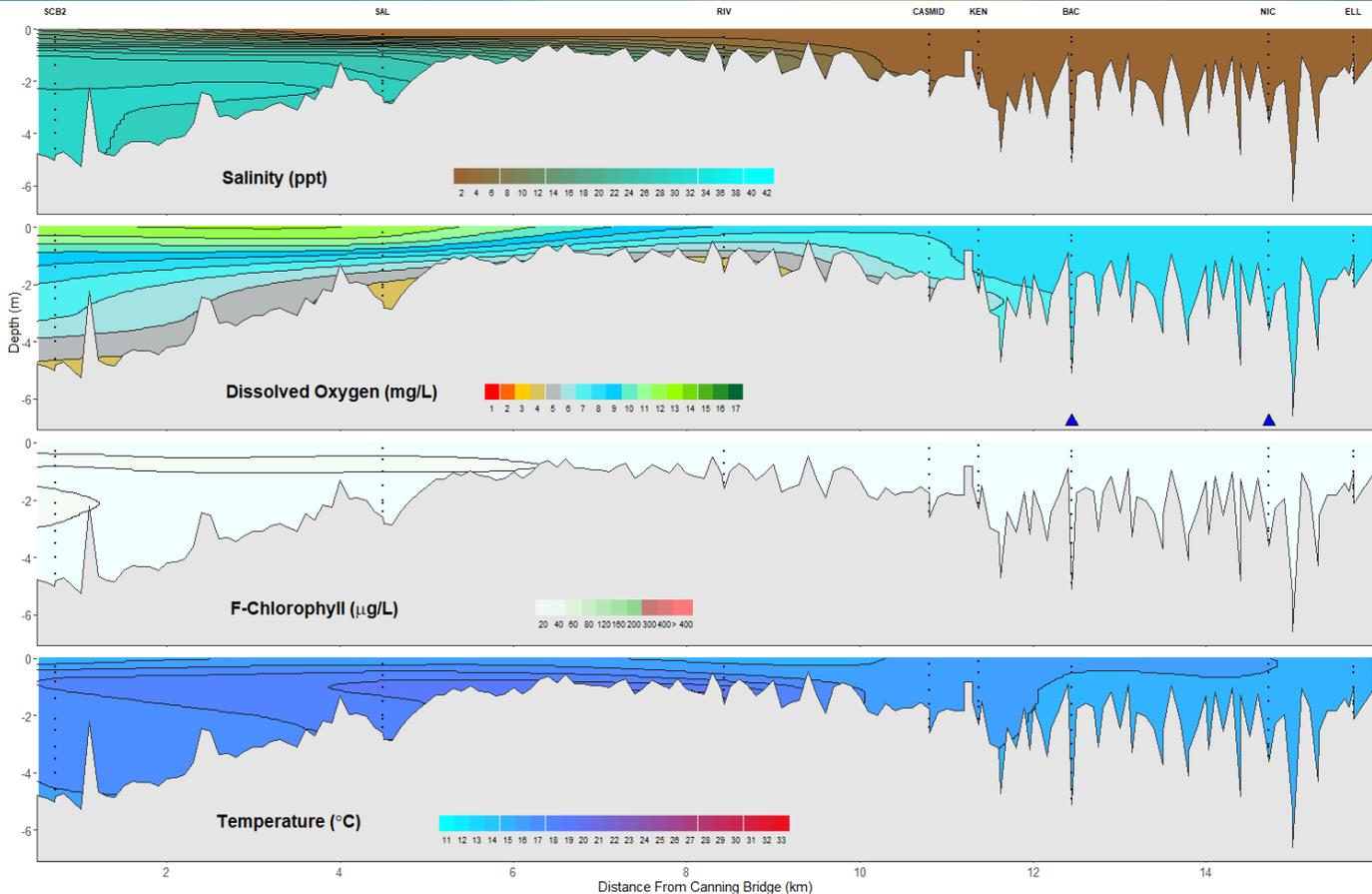
Canning Estuary and Lower Canning River

25th August 2020

Prepared by

Rivers and Estuaries Science
Biodiversity and Conservation Science
Department of Biodiversity, Conservation and Attractions

Canning Estuary and Lower Canning River- Water Quality Profiles- 25th August 2020



Date: 25th August 2020

Weather & tide conditions: Conditions were cloudy with a variable breeze of up to 3 knots. The predicted tides at Barrack St were 0.95 m at 3:30 am (high tide) and 0.64 m at 5:11 pm (low tide). Gosnells recorded 1.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

NB: Kent St Weir had been opened to allow downstream discharge in the Canning Estuary.

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 brackish over saline at SCB2 and SAL, fresh over brackish at RIV and fresh at CASMID. Surface waters were well oxygenated and the bottom waters were low in oxygen. Chlorophyll fluorescence was higher at SBC2 and SAL, indicating higher microbial activity in these areas. Water temperature ranged from 15.1 to 19.2 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh, waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.5 to 15.5 °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