

Derbal Yirragan

Swan waterway

Weekly water quality report

10 & 11 August 2026

Monitoring conducted on Whadjuk Noongar Country

Prepared by:

Rivers and Estuaries Science

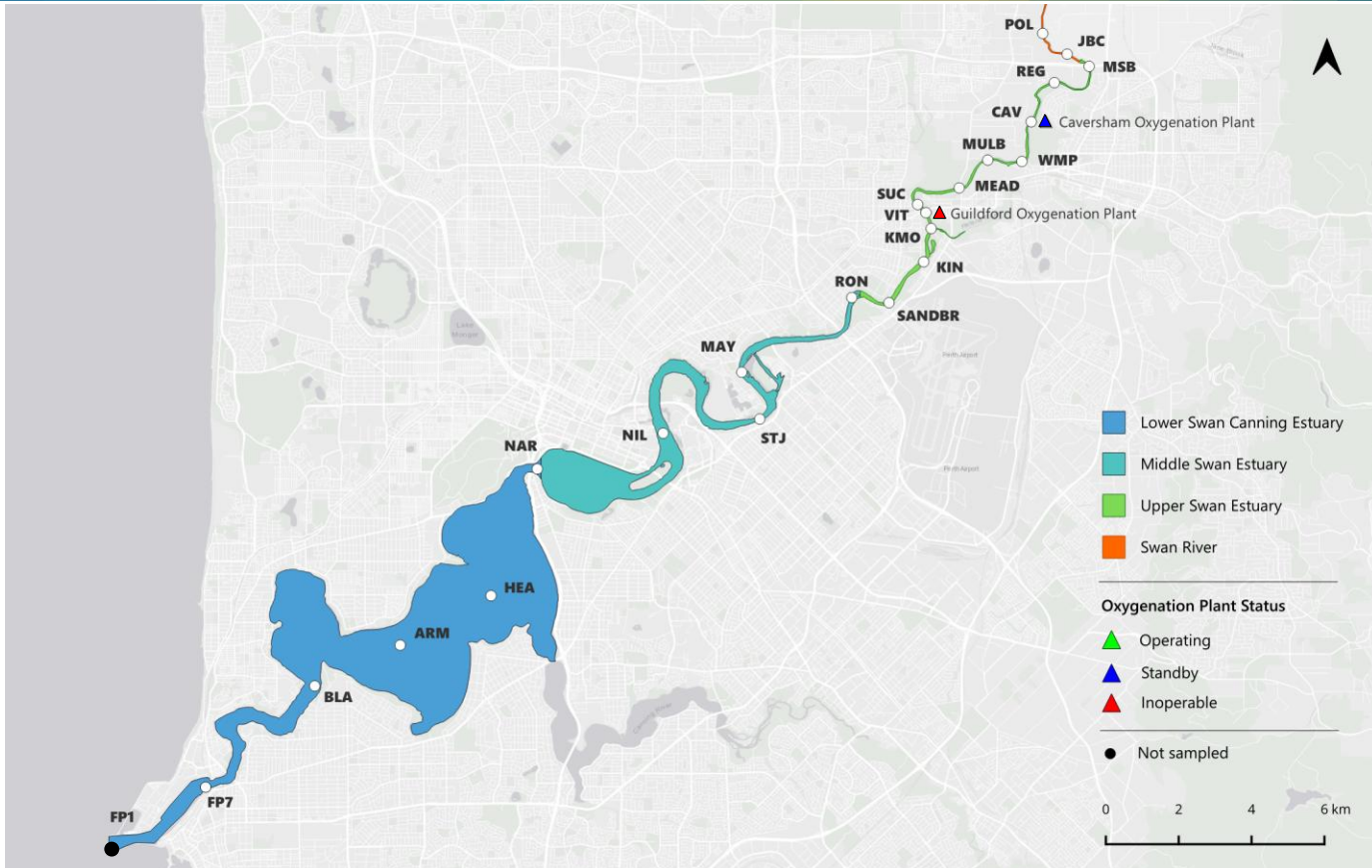
Biodiversity and Conservation Science

Department of Biodiversity, Conservation and Attractions

Photo – DBCA

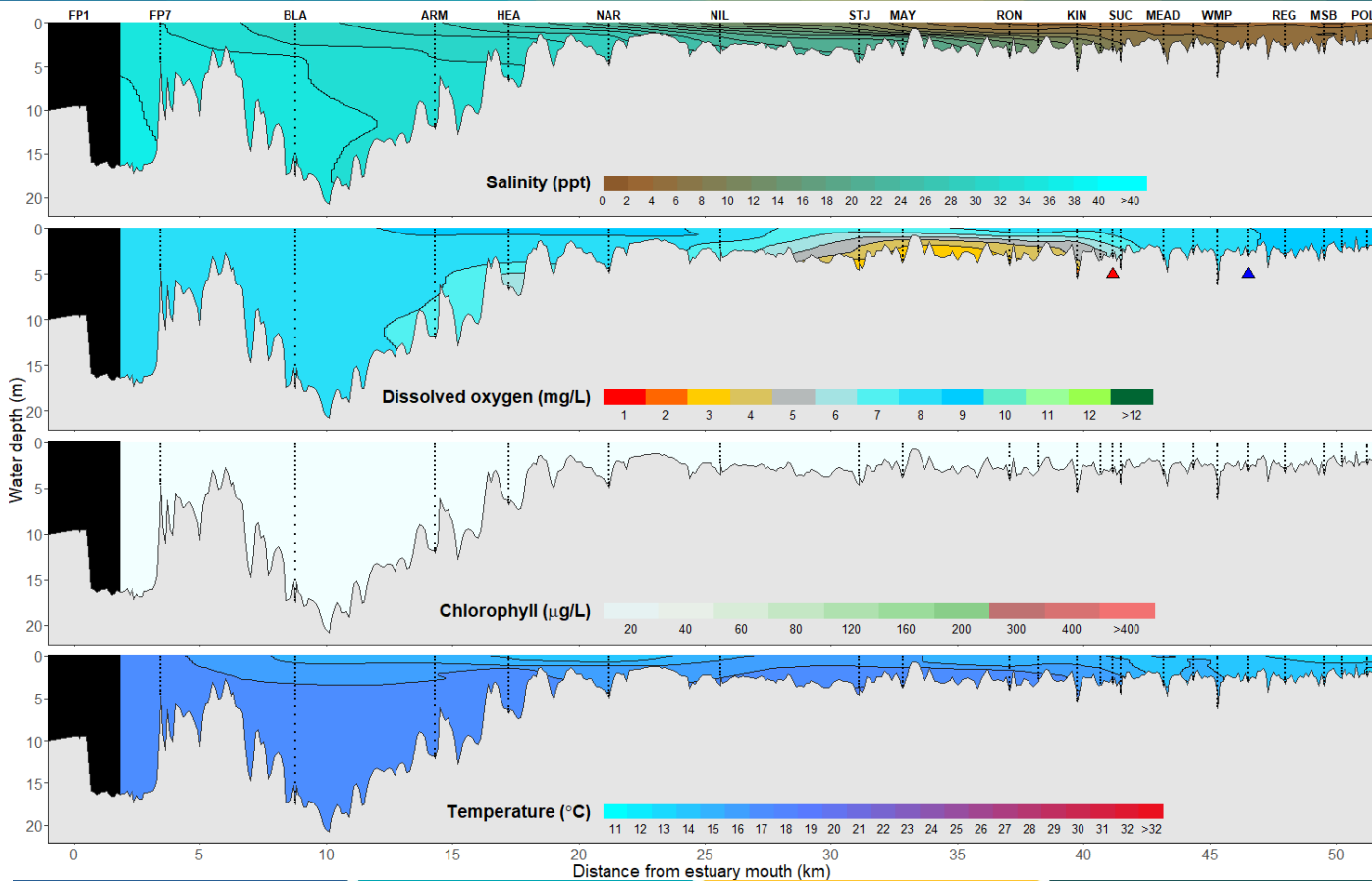
Derbal Yirragan water quality monitoring sites

10 & 11 August 2026



Derbal Yirragan water quality profile

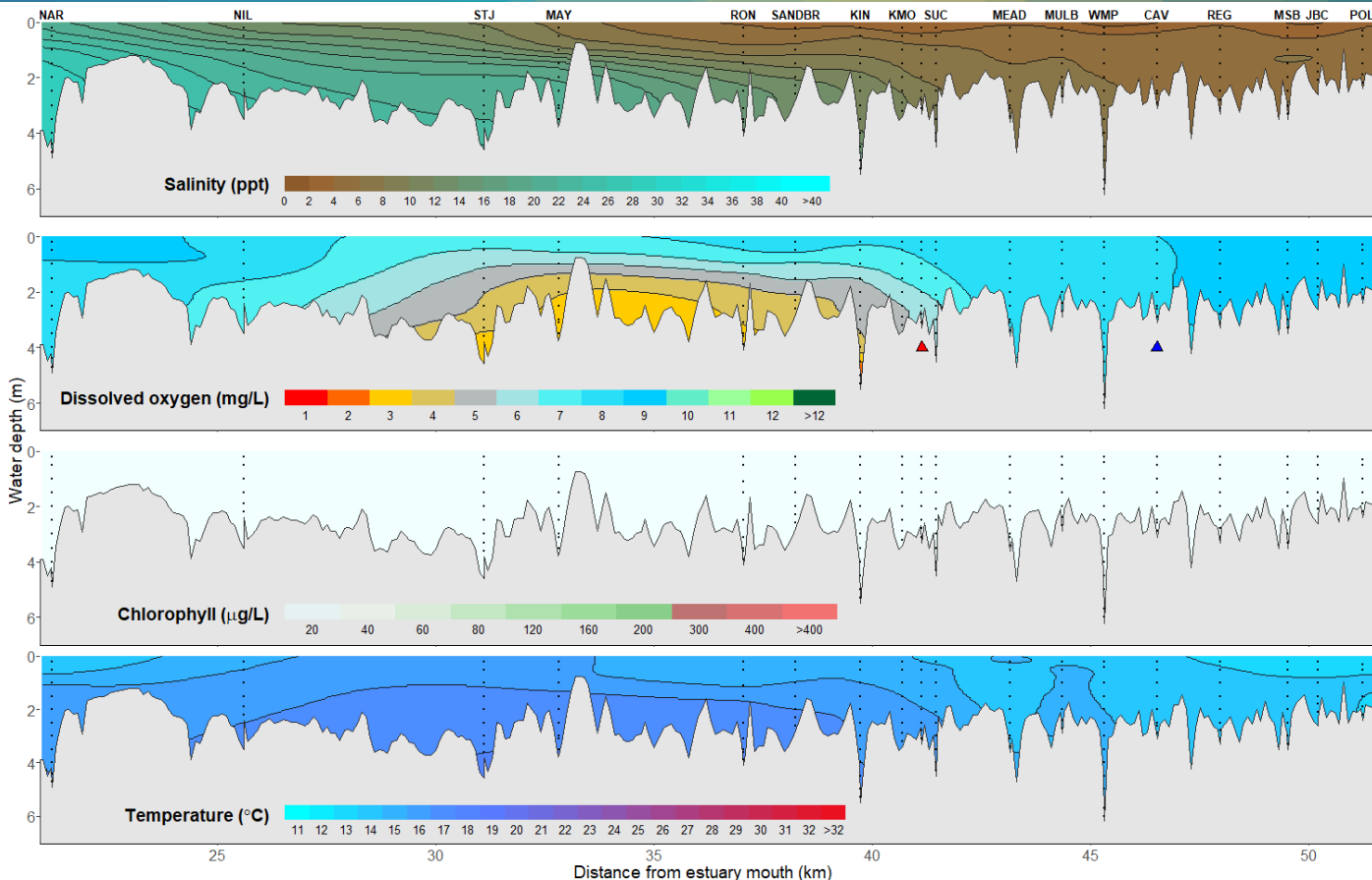
10 & 11 August 2026



Note: Profile plots are visual interpolations of measured parameters only. Detailed data are available at wir.water.wa.gov.au.

Derbal Yirragan water quality profile

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Derbal Yirragan water quality summary

10 & 11 August 2026

Lower Swan Canning Estuary: Waters were euhaline throughout and polyhaline in the surface waters from ARM to HEA and throughout the water column at NAR. Chlorophyll fluorescence was low throughout, indicating low phytoplankton activity. Waters were oxygenated or well-oxygenated and water temperatures ranged from 13.4 to 16.8 °C.

Middle Swan Estuary: Waters were predominately mesohaline with polyhaline in bottom waters from NIL to MAY and oligohaline in surface waters at RON. Waters were oxygenated or well oxygenated throughout except for bottom waters from STJ to RON, which were in low oxygen. Chlorophyll fluorescence was low throughout, indicating low in phytoplankton activity. Water temperatures ranged from 14.3 to 17 °C.

Upper Swan Estuary and Swan River: Waters were predominantly oligohaline over mesohaline, with polyhaline bottom waters at KIN. Waters were predominately oxygenated to well oxygenated except for bottom waters at SANDBR and KIN which were low in oxygen and hypoxic, respectively. Chlorophyll fluorescence was low throughout, indicating low phytoplankton activity. Water temperatures ranged from 12.1 to 17 °C.

NB: Due to inclement weather on the 10th, sampling at FP7 was undertaken on the 10th and BLA to POL on the 11th.

Season			
Djilba		First spring	
Predicted tides ¹			
High Tide		Low Tide	
1.27 m	10:13	0.61 m	8:39 pm

Recorded weather conditions	
Skies	Cloudy
Wind direction	Variable
Wind speed (max)	6.2 knots
Air temperature ² (max)	16.1 °C
Rainfall ² (within week prior)	56.2 mm

Definitions

Salinity (ppt)³ – fresh: <0.5; oligohaline: 0.5 – 5; mesohaline: >5 – 18; polyhaline: >18 – 30; euhaline: >30 – 40; hyperhaline: >40.

Dissolved oxygen (mg/L)⁴ – anoxic: 0; hypoxic: >0 – 2; low oxygen: >2 – 4; oxygenated: >4 – 6; well oxygenated: >6.

Chlorophyll fluorescence (µg/L)⁵ – low: <50; moderate: 50 – 150; high: >150 – 400, very high: >400.

References

1. DTMI (Department of Transport and Major Infrastructure) (2025) [Tide predictions](#), DTMI, accessed 10 & 11 August 2026.
2. BOM (Bureau of Meteorology) (2026) [Perth Western Australia Daily Weather Observations](#), BOM, accessed 10 & 11 August 2026.
3. (2003) 'The Venice System for the Classification of Marine Waters According to Salinity', *Limnology and Oceanography*, 3, [doi: 10.4319/lo.1958.3.3.0346](#).
4. DWER (Department of Water and Environmental Regulation) (2018) [Oxygenating the Vasse estuary exit channel: the results of a two year trial 2025 - 2017](#), DWER, Government of Western Australian.
5. Chlorophyll definitions were internally developed from historical trends within the Swan Canning Riverpark.

Recommended reference for this report

Department of Biodiversity, Conservation and Attractions, 2026. *Swan Water Quality Report, 10 & 11 August 2026*. Rivers and Estuaries Science (<https://www.dbca.wa.gov.au/management/swan-canning-riverpark/swan-canning-riverpark-water-quality-monitoring>)