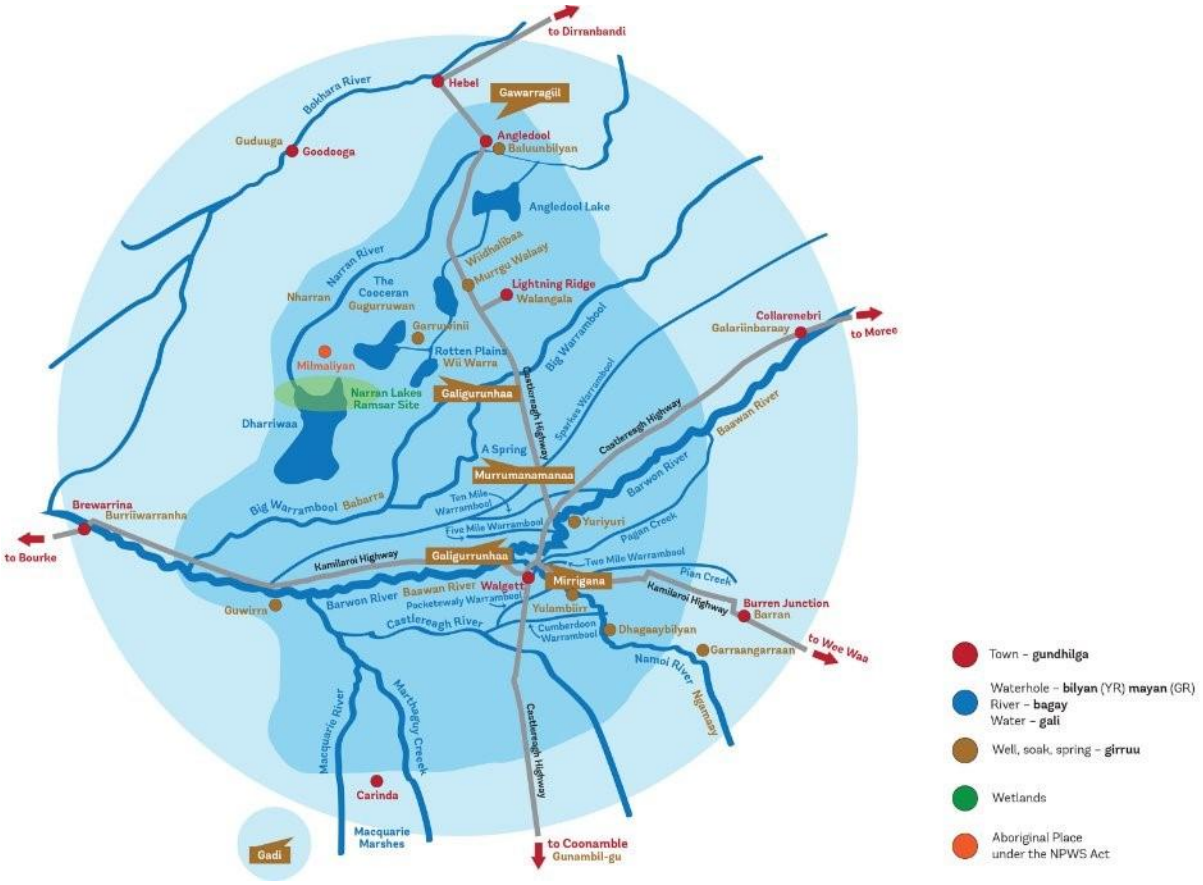
Water Quality Monitoring Report

5th June 2026

Introduction

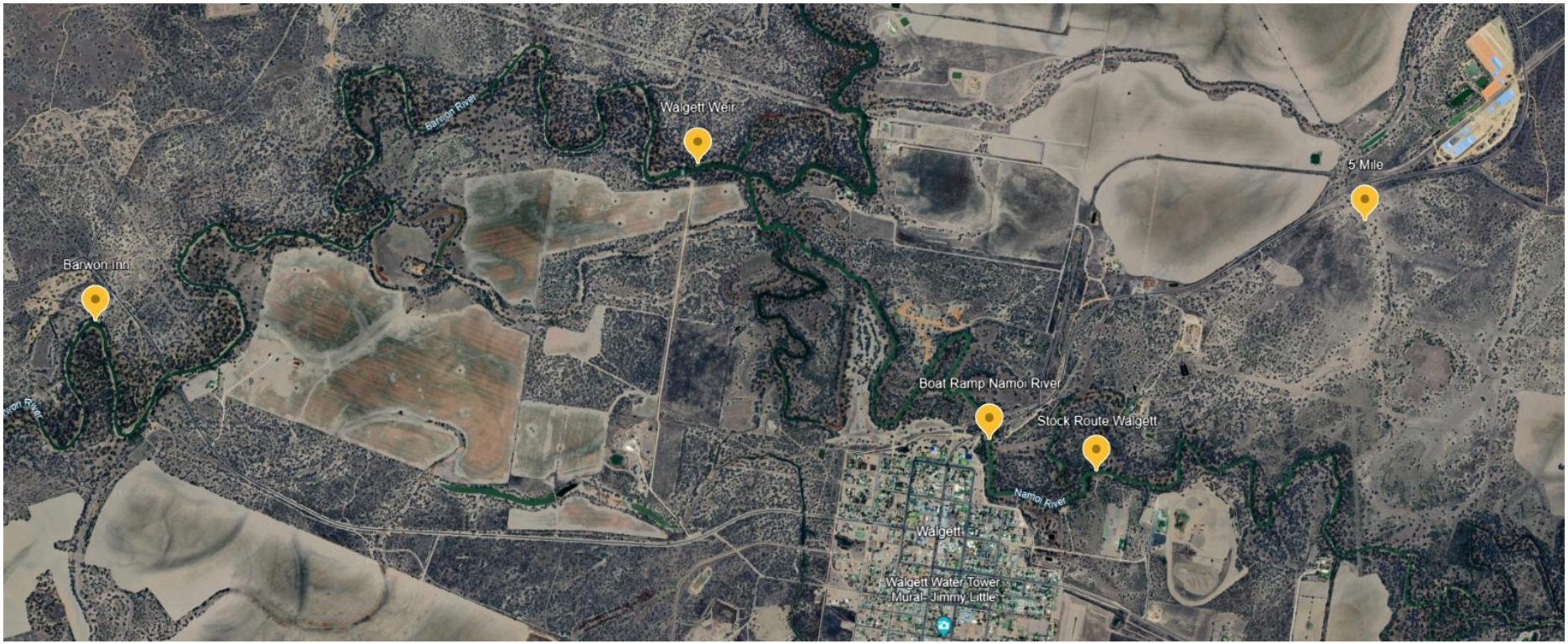
This data was collected on Friday 5th June 2026 between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

The Dharriwaa Elders Group River Rangers are conducting weekly water quality testing, measuring a range of factors that affect the quality of the river water. Different results affect the health of native animals and plants, and the health of the people that rely on the river for food and water.

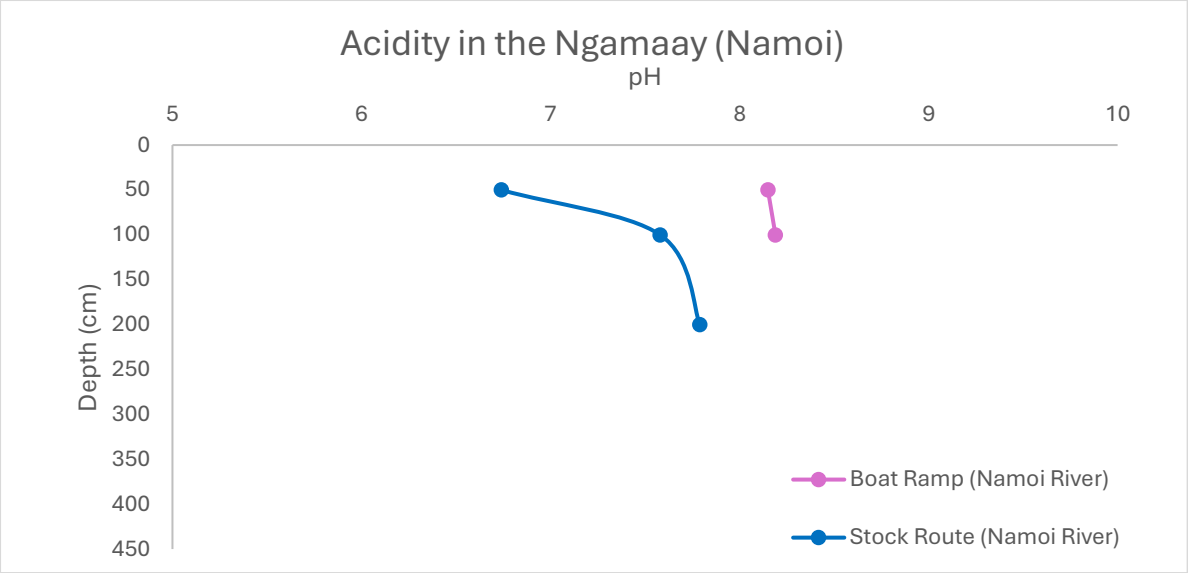


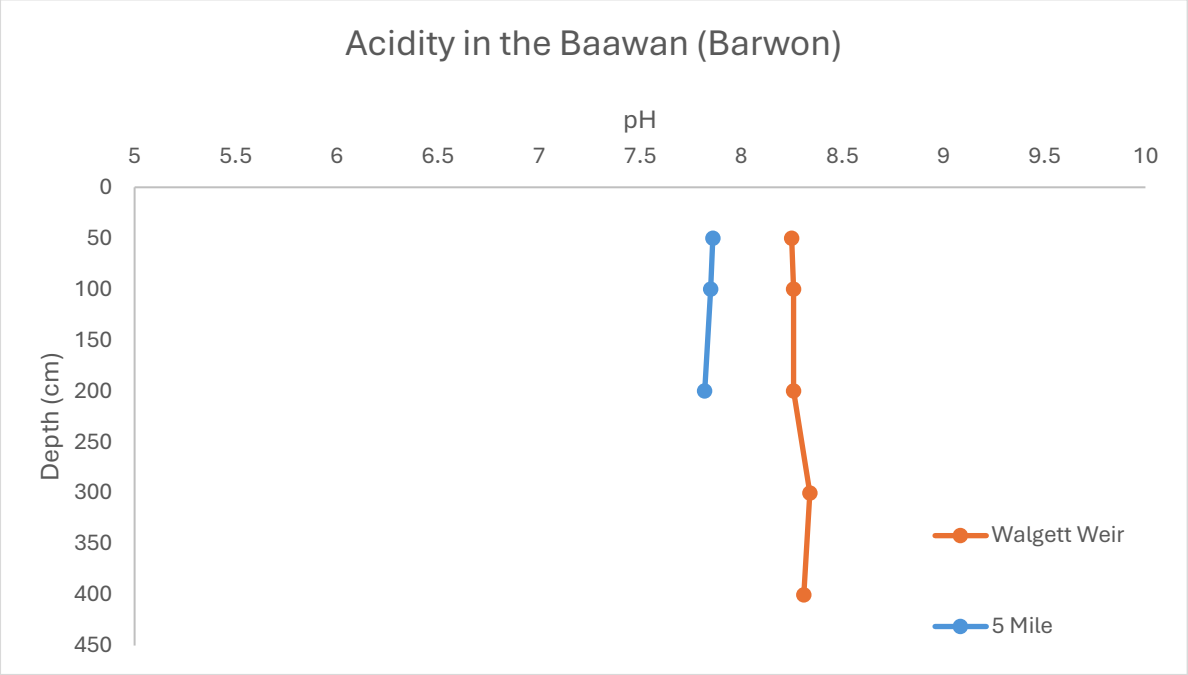
(Picture: Dharriwaa Elders Group area of interest)

Picture: Map of the Baawan (Barwon) River and Ngamaay (Namoi) River where the DEG River Rangers do their water quality monitoring.



Acidity in the Ngamaay and Baawan Rivers

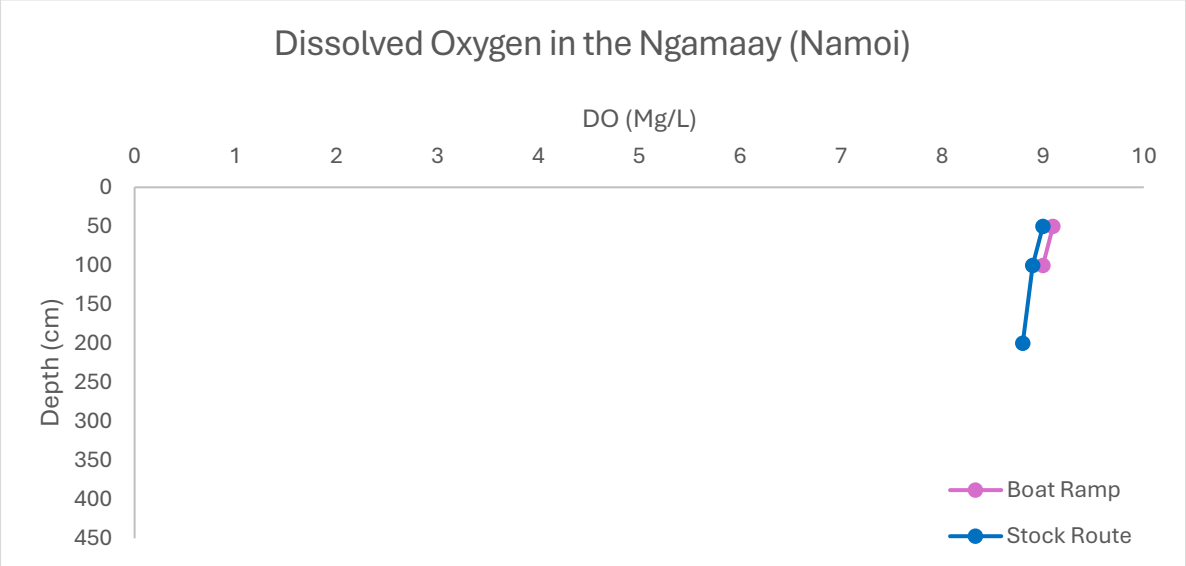


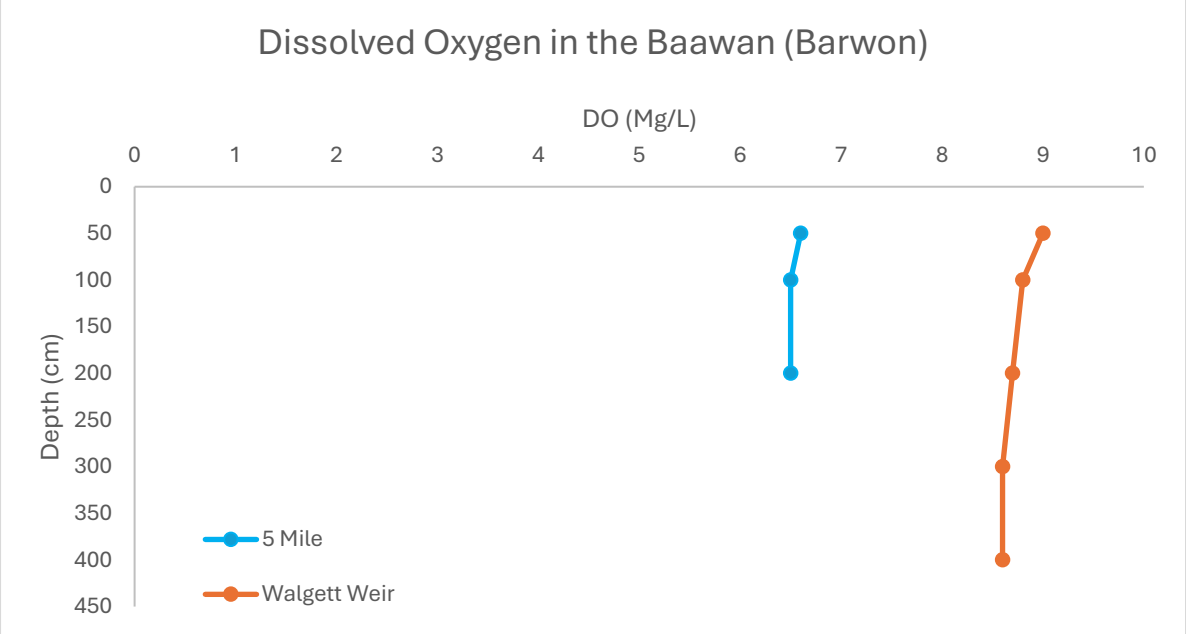


The pH readings in both rivers at both sites are within the healthy range. The highest reading is 8.25 at the Walgett Weir (Baawan River). The lowest reading is 6.74 at the Stock Route (Ngamaay River).

Healthy range: 6.5 - 8.5 pH

Dissolved Oxygen in the Ngamaay and Baawan Rivers

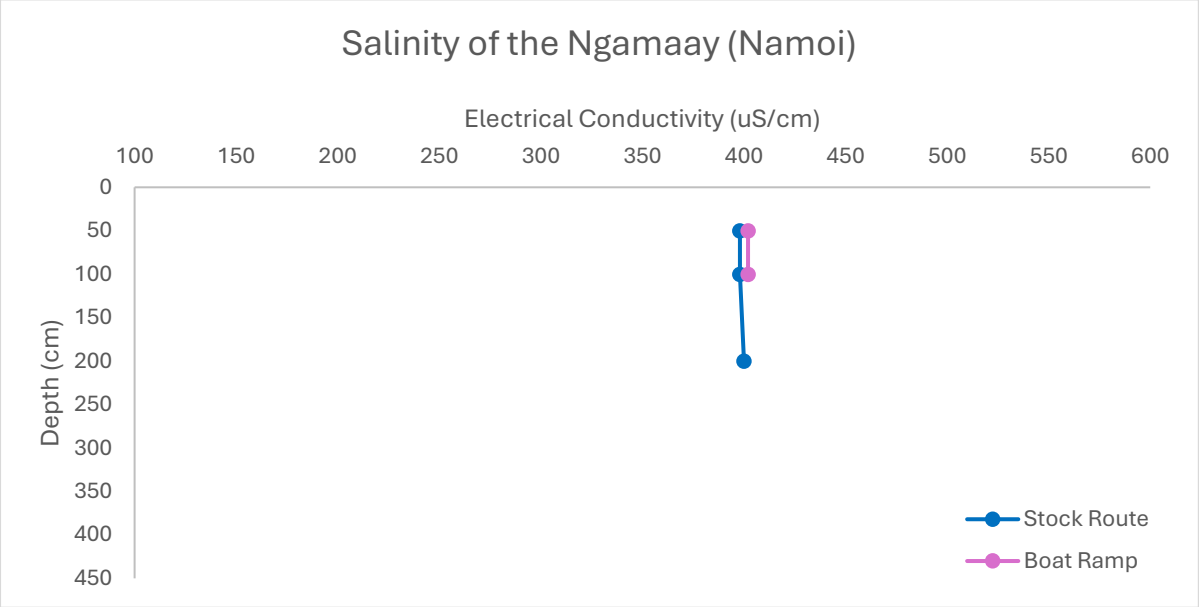


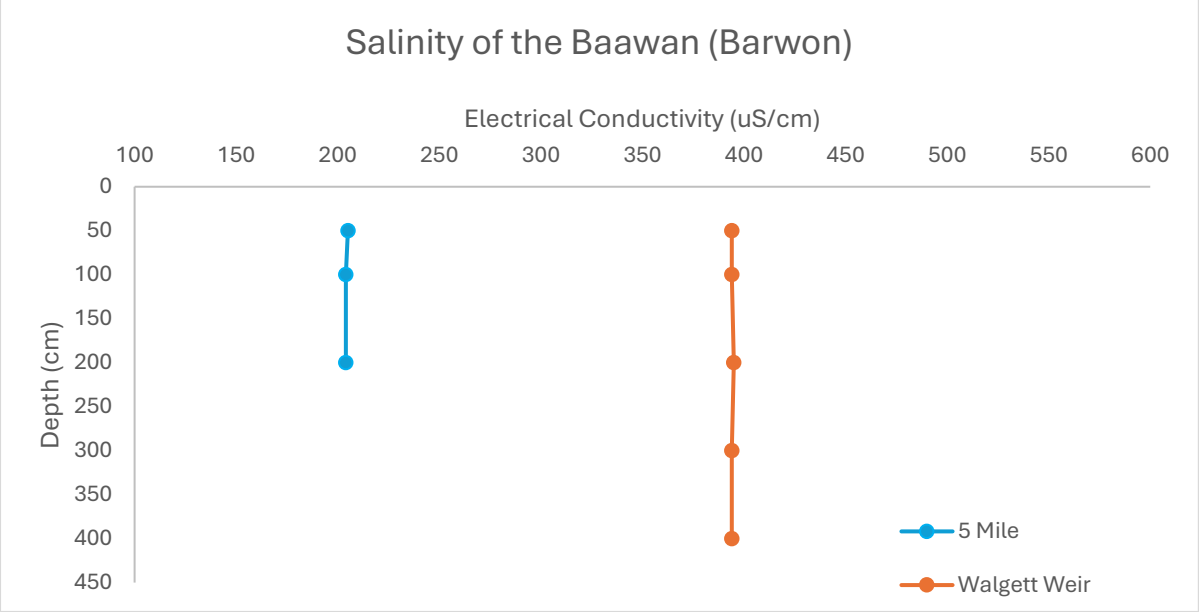


The dissolved oxygen at the 5 Mile (Baawan River) is within the healthy range. At the Walgett Weir (Baawan River), Boat Ramp and Stock Route (Ngamaay River) is outside the healthy range. The highest reading is 9.1 at the Boat Ramp (Ngamaay River). The lowest reading is 6.5 at the 5 Mile (Baawan River).

Healthy Range: 6 - 8 (Mg/L)

Salinity in the Ngamaay and Baawan Rivers

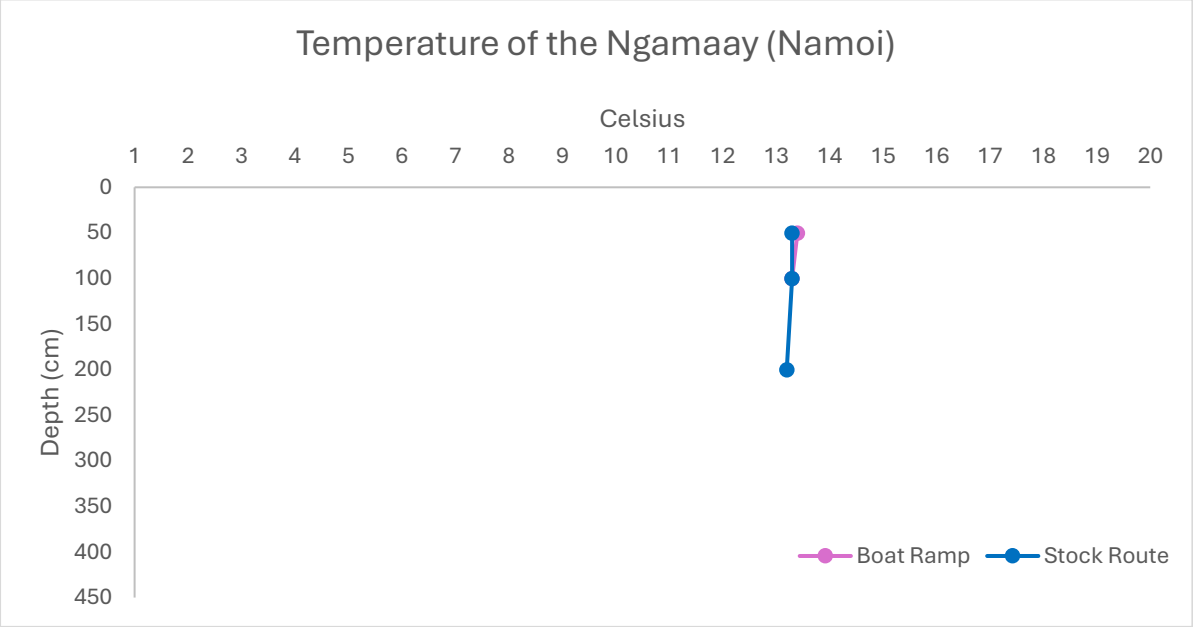


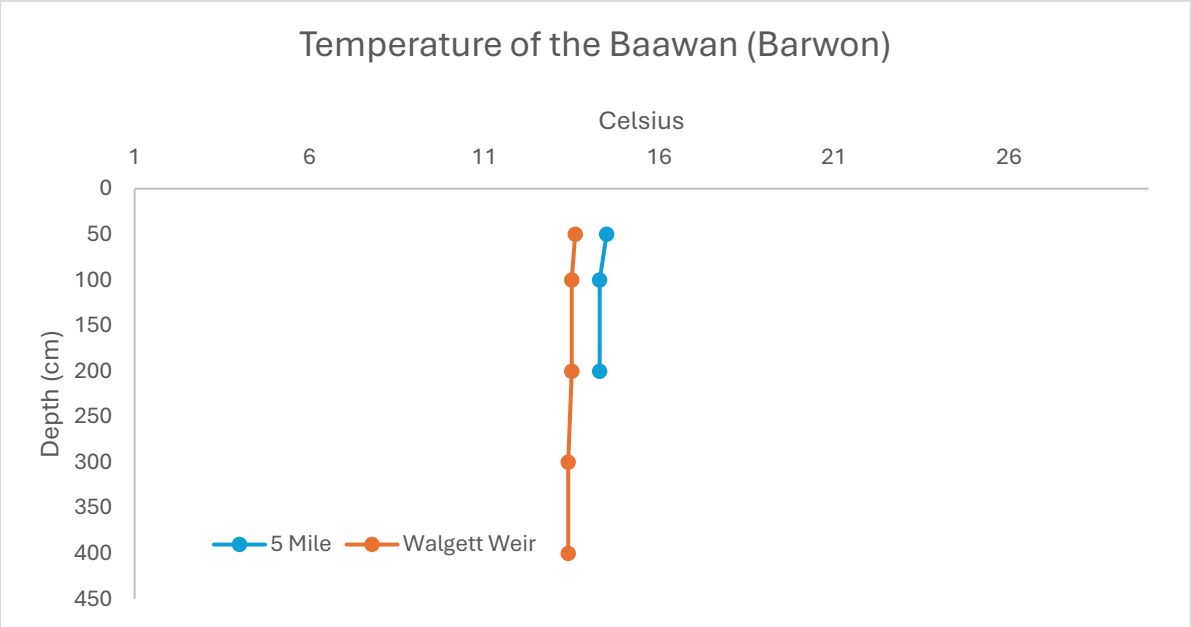


The salinity at all sites in both the Ngamaay and Baawan Rivers are within the healthy range. The highest reading is 402 at the Boat Ramp (Ngamaay River). The lowest reading is 204 at the 5 Mile (Bawaan River).

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan Rivers





The temperature at all sites on both rivers are outside the healthy range. The highest reading is 14.5 at the Walgett Weir (Baawan River). The lowest reading is 13.2 at the Stock Route (Ngamaay River).

Healthy Range: 18-28 degrees (Celsius)

Conclusion

The pH readings are all in the healthy range. This means that the water is not too acidic and not too alkaline. The salinity is also within the healthy range, this is good for freshwater aquatic life.

The dissolved oxygen is on the higher end at majority of the sites in both rivers. This does not mean that it is dangerous it may be a good for the fish.

The temperature is also outside the healthy range. This is to be expected as we now go into the cooler months.