



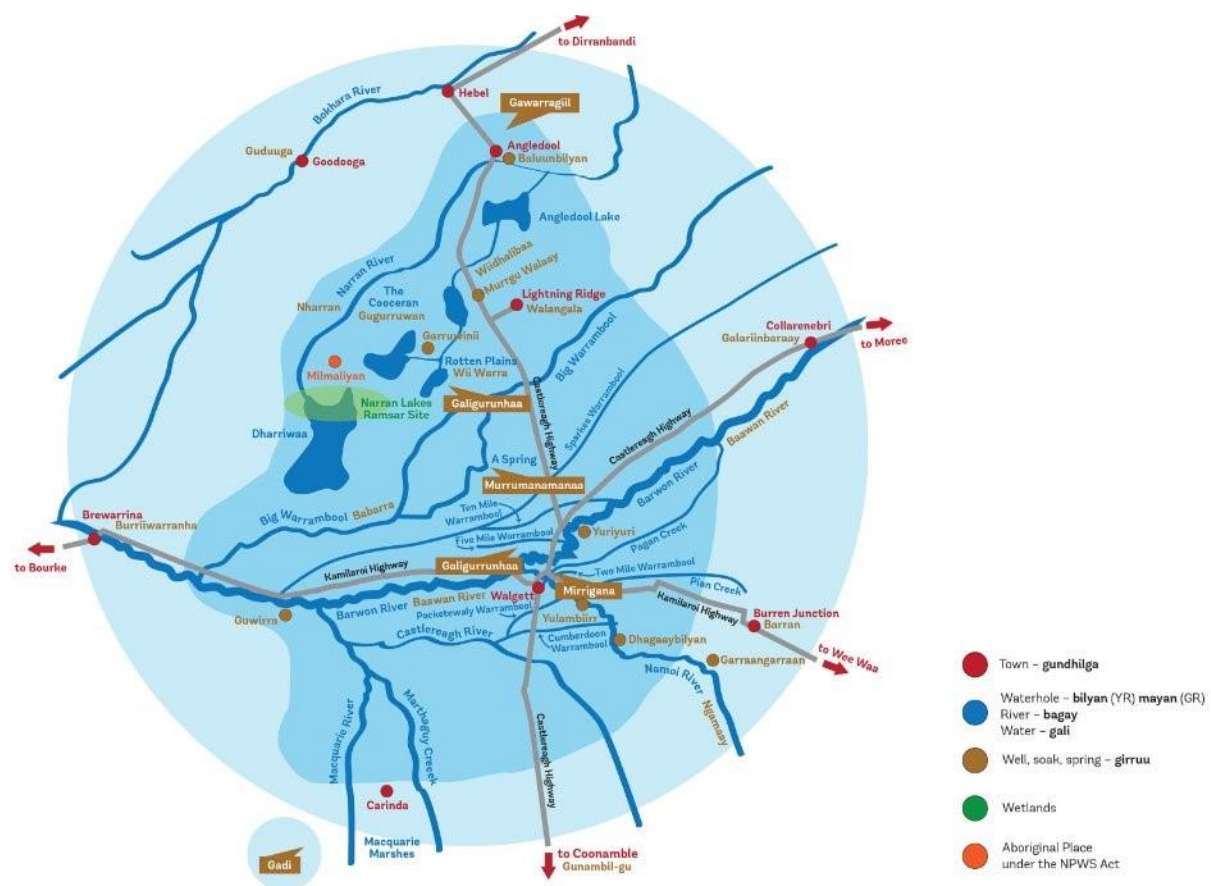
Weekly River Monitoring Report

13th January 2025

Introduction

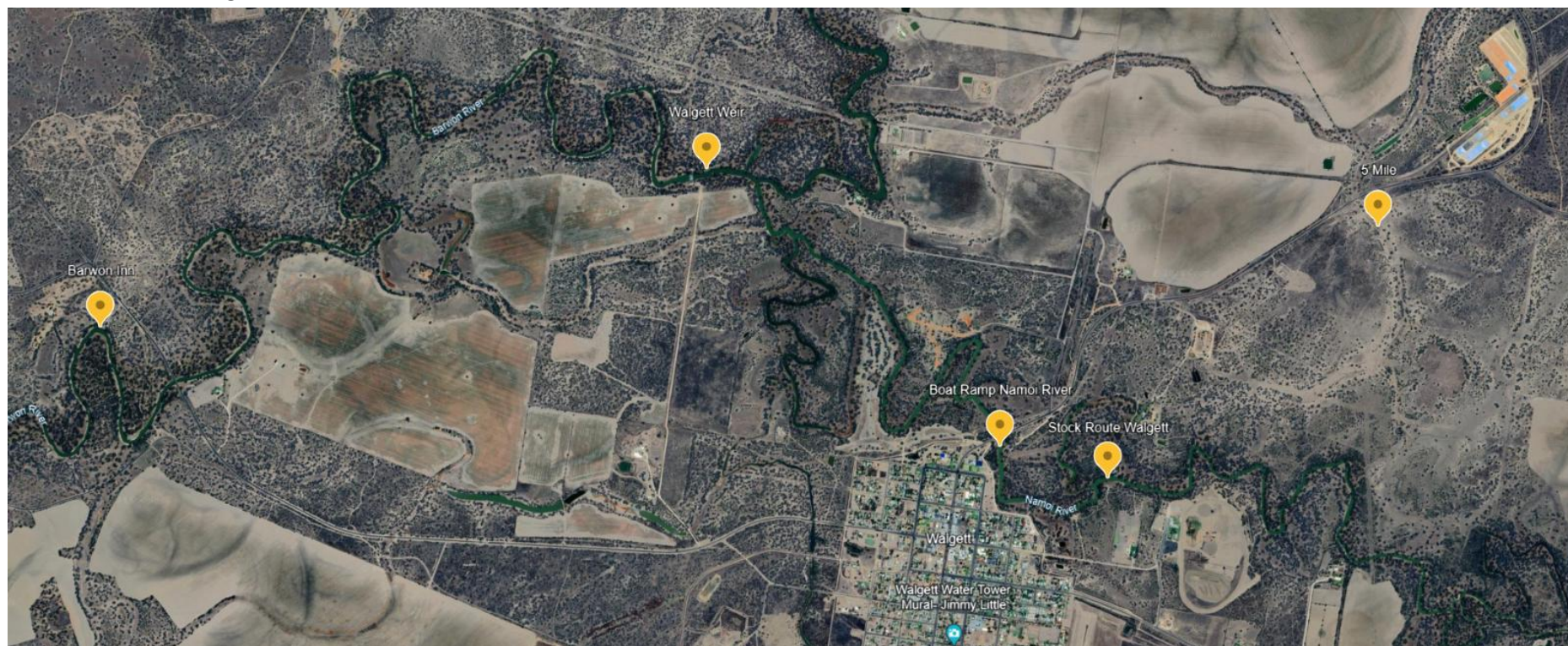
This data was collected on Monday 13th January 2025 between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

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.

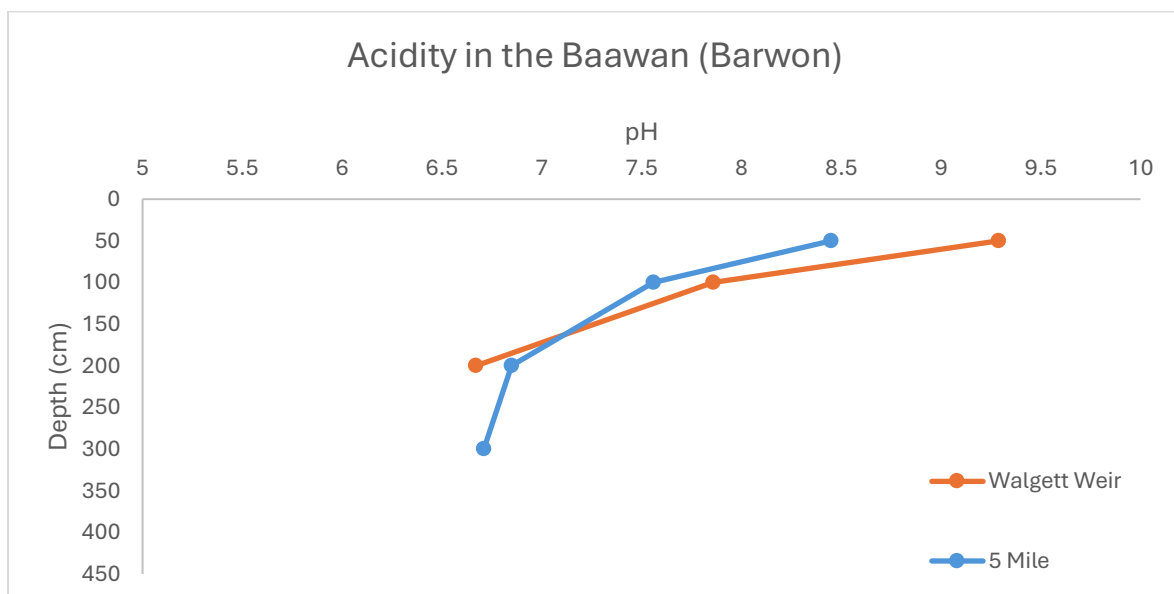
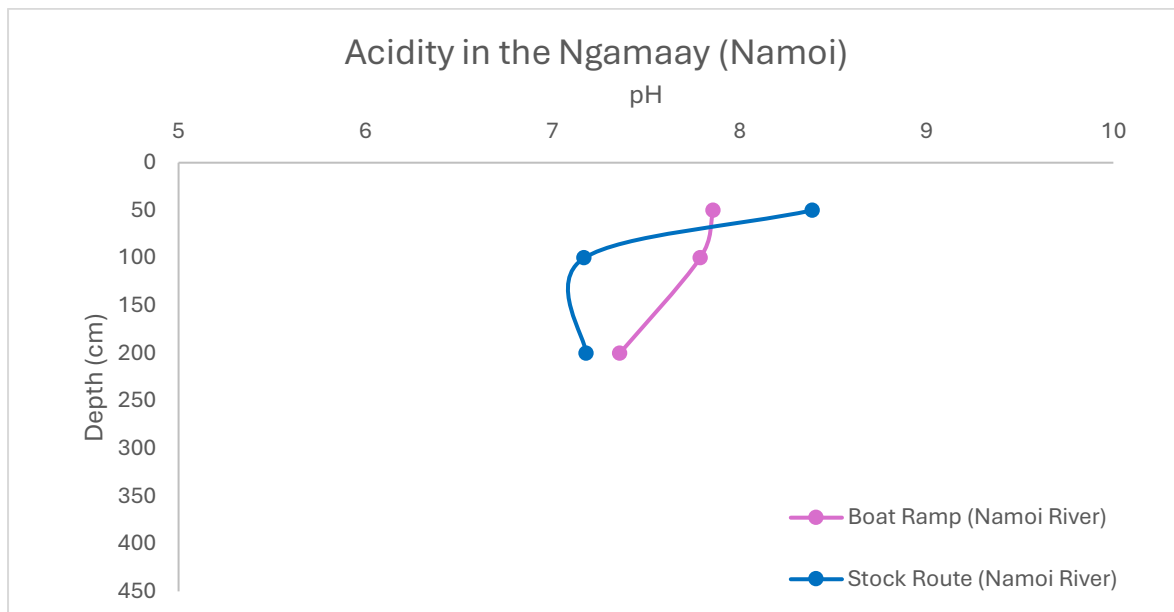


(Picture: Dharriwaa Elders Group area of interest)

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



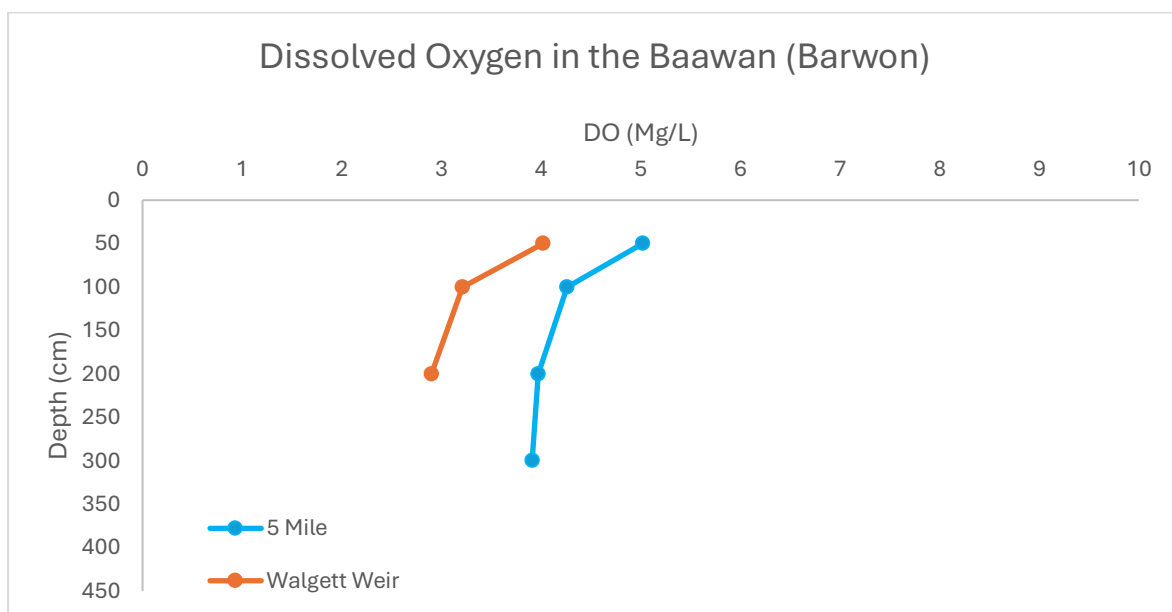
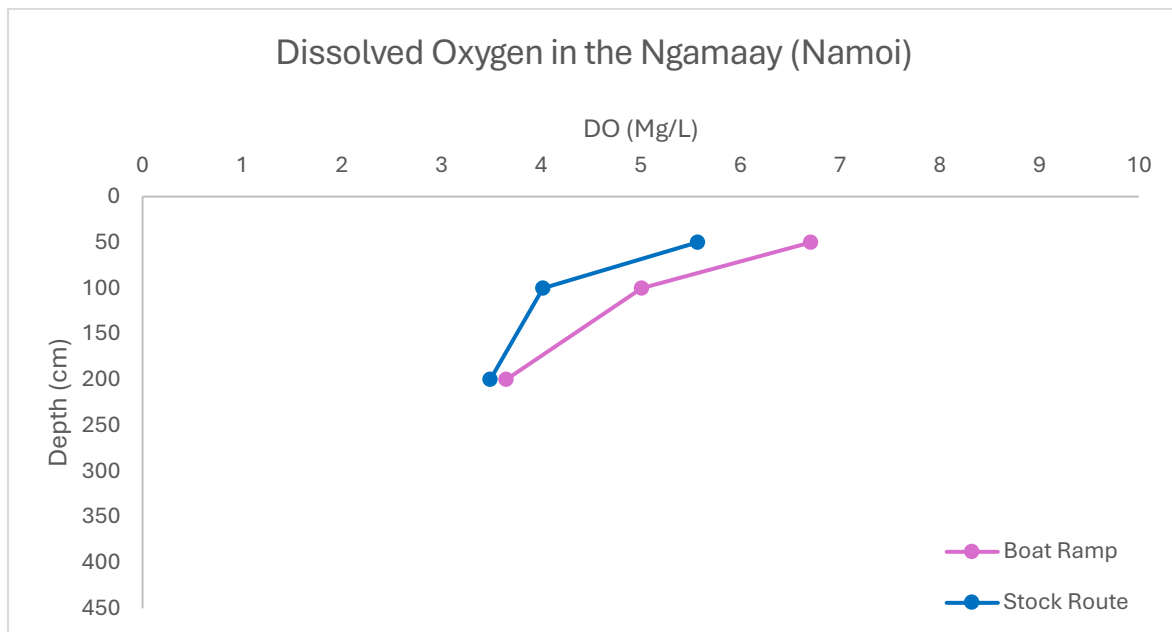
Acidity in the Ngamaay and Baawan River



The pH at the 5 Mile (Baawan River), Stock Route and Boat Ramp (Ngamaay River) are within a healthy range. The first reading at the Walgett Weir (Baawan River) is outside the healthy range the rest of the readings at the Walgett Weir is within the healthy range.

Healthy range: 6.5 - 8.5 pH

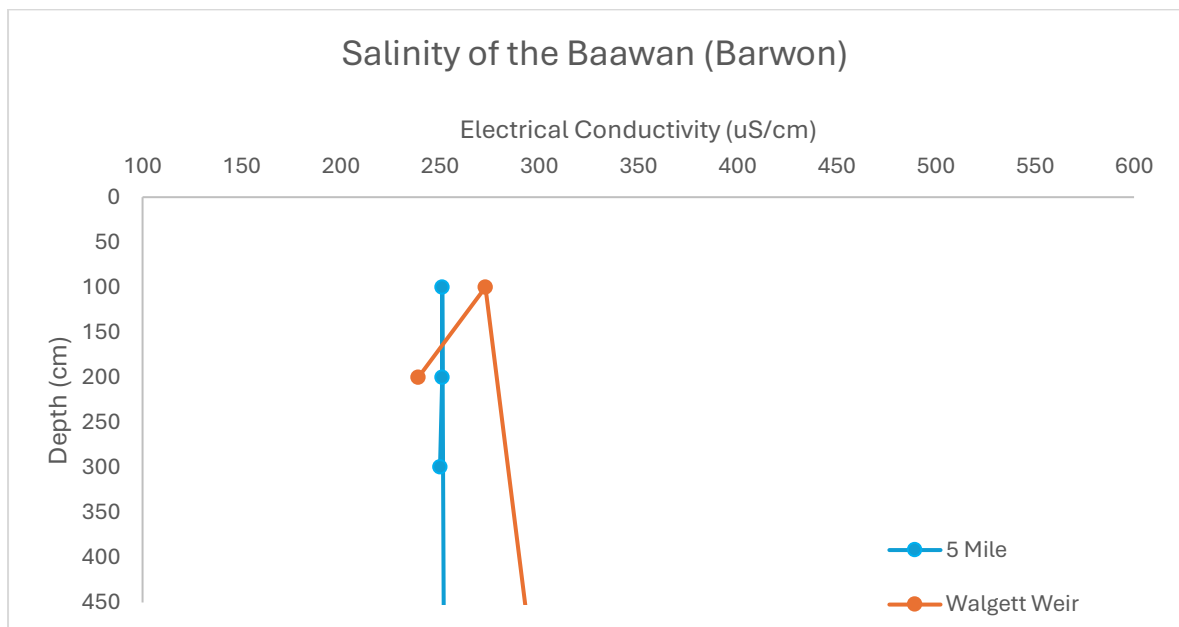
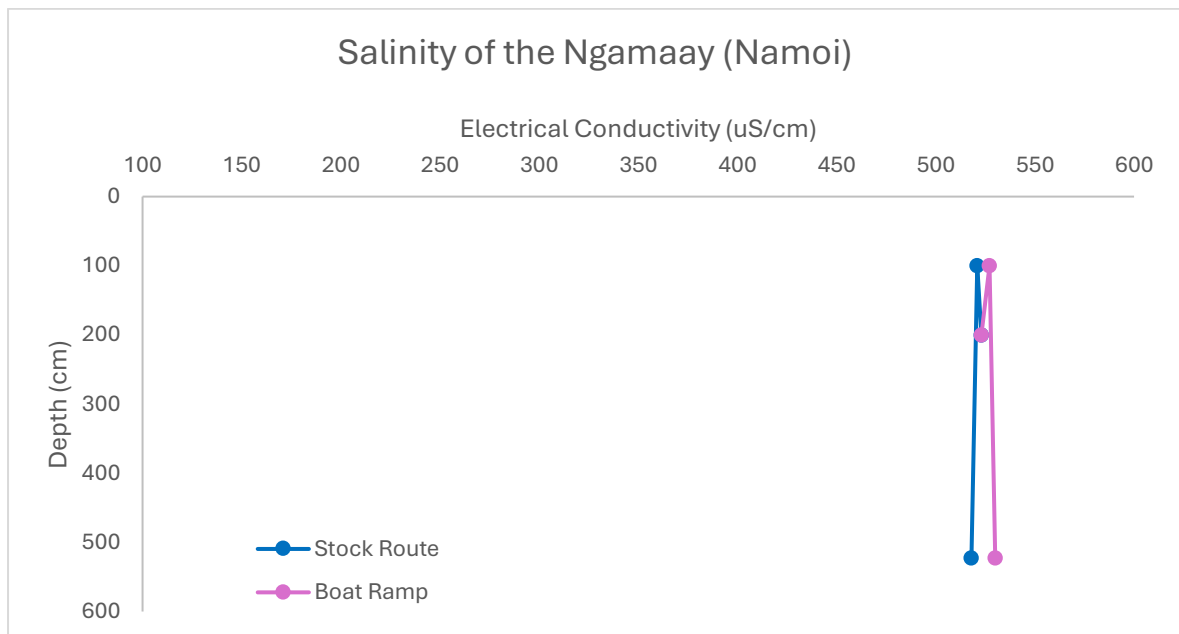
Dissolved Oxygen in the Ngamaay and Baawan River



The dissolved oxygen readings at the 5 Mile, Walgett Weir (Ngamaay River) and the Stock Route (Baawan River) are outside the healthy range. The first reading at the Boat Ramp (Ngamaay River) is inside the healthy range the rest of the readings at outside the healthy range.

Healthy Range: 6 - 8 (Mg/L)

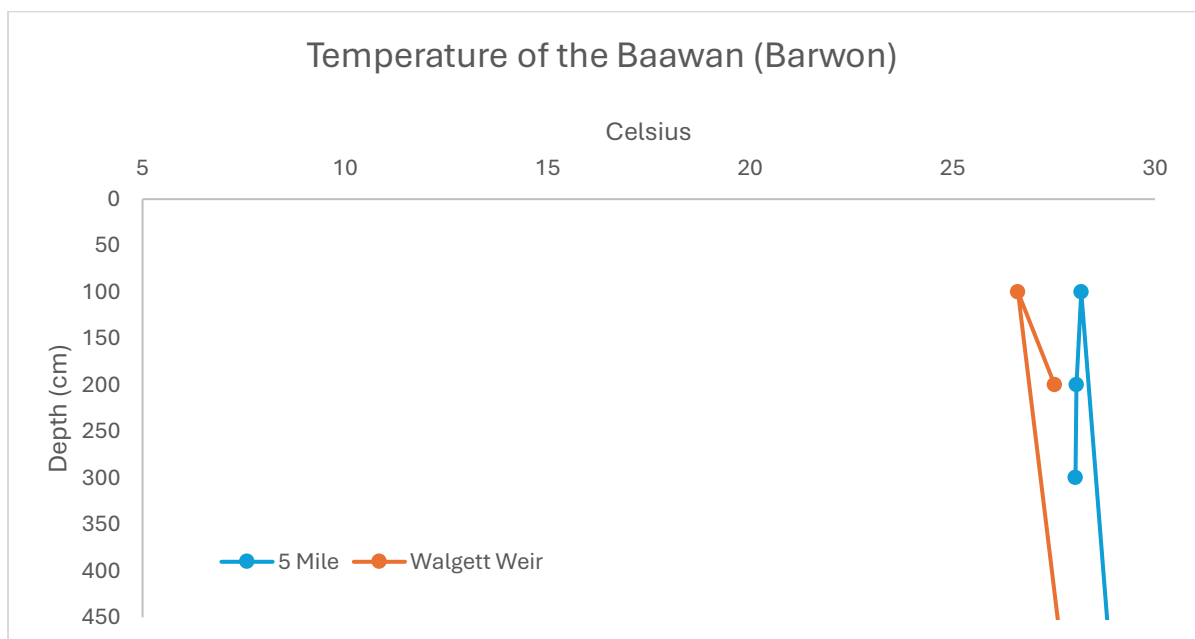
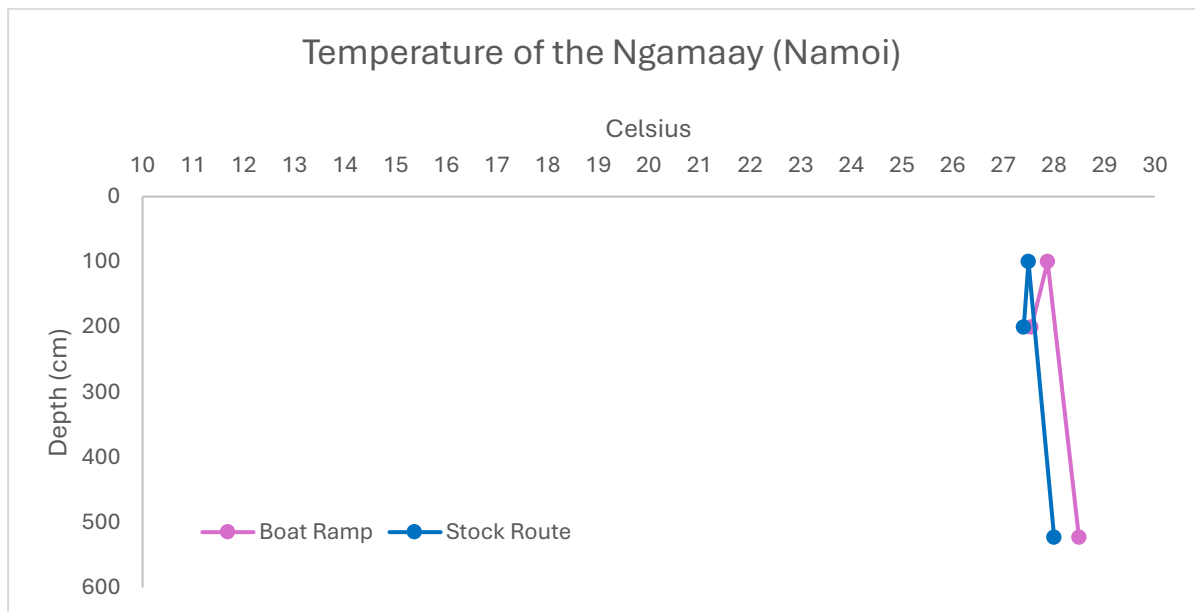
Salinity in the Ngamaay and Baawan River



The salinity at all sites and depths are within a healthy range. This is good for freshwater fish.

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan River



The temperature reading at the 5 Mile (Baawan River) is outside the healthy range. The readings at the Walgett Weir (Baawan River) are within the healthy range. The first readings at both the Stock Route and Boat Ramp (Ngamaay River) are outside the healthy range. The rest of the readings at both sites are within the healthy range.

Healthy Range: 18-28 degrees (Celsius)

Conclusion

The pH levels and salinity levels at all sites along the Ngamaay and Baawan Rivers are within the healthy range.

The dissolved oxygen at the 5 Mile (Baawan River), Stock Route and Boat Ramp (Ngamaay River) are outside the healthy range but are at an okay level. The dissolved oxygen at the Walgett Weir is at a dangerous level. Below 3mg/L fish kills can occur.

The temperature at the Walgett Weir (Baawan River), Stock Route and Boat Ramp are within a healthy range. The temperature at the 5 Mile (Baawan River) is outside the healthy range but is at an okay level.