



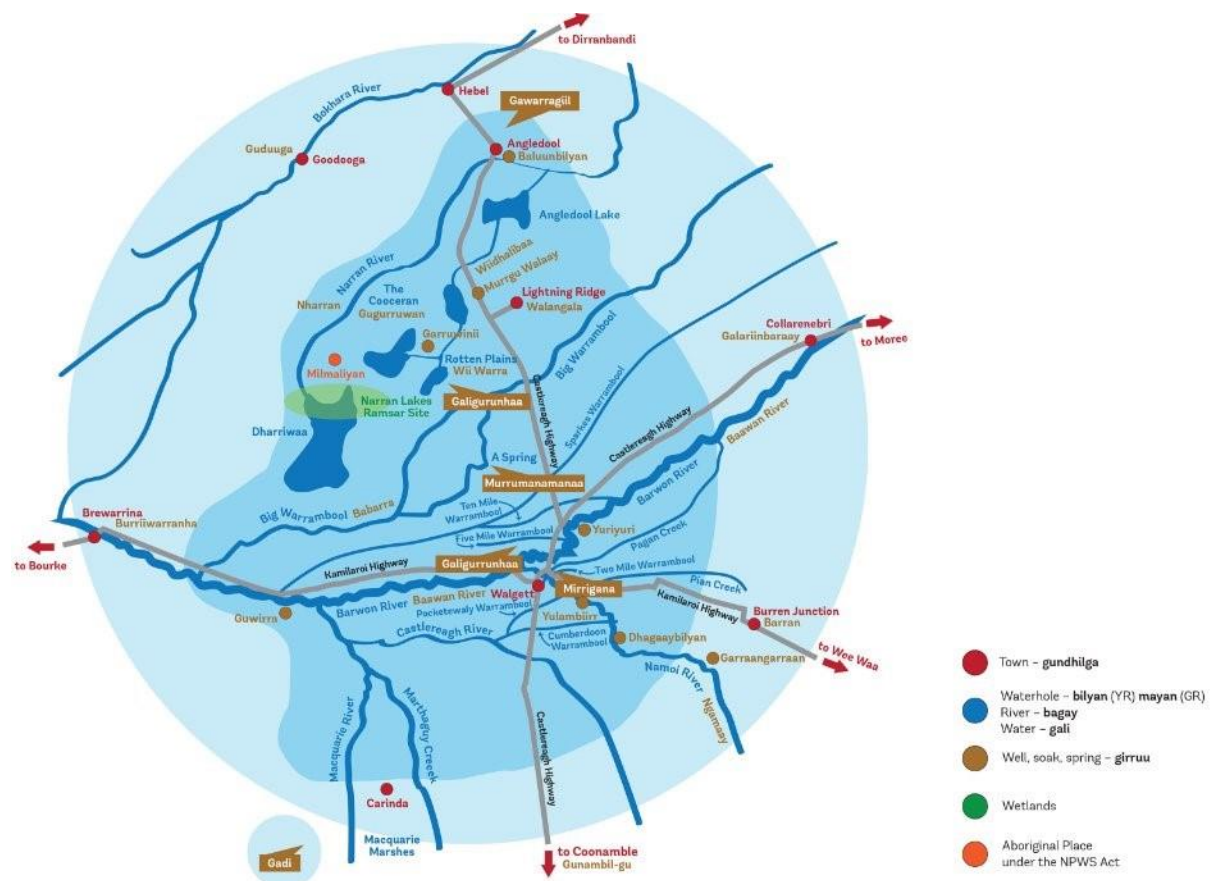
Weekly River Monitoring Report

10th October 2024

Introduction

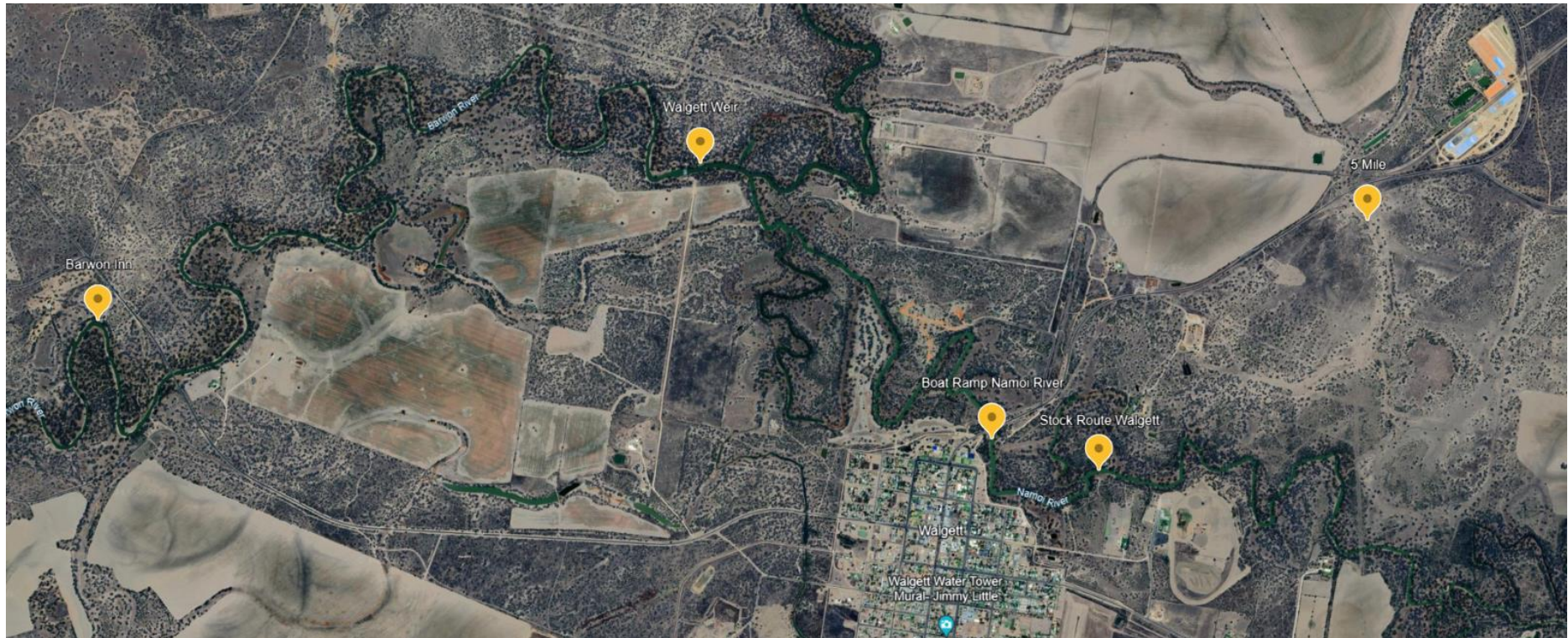
This data was collected on Thursday 10th October between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

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.

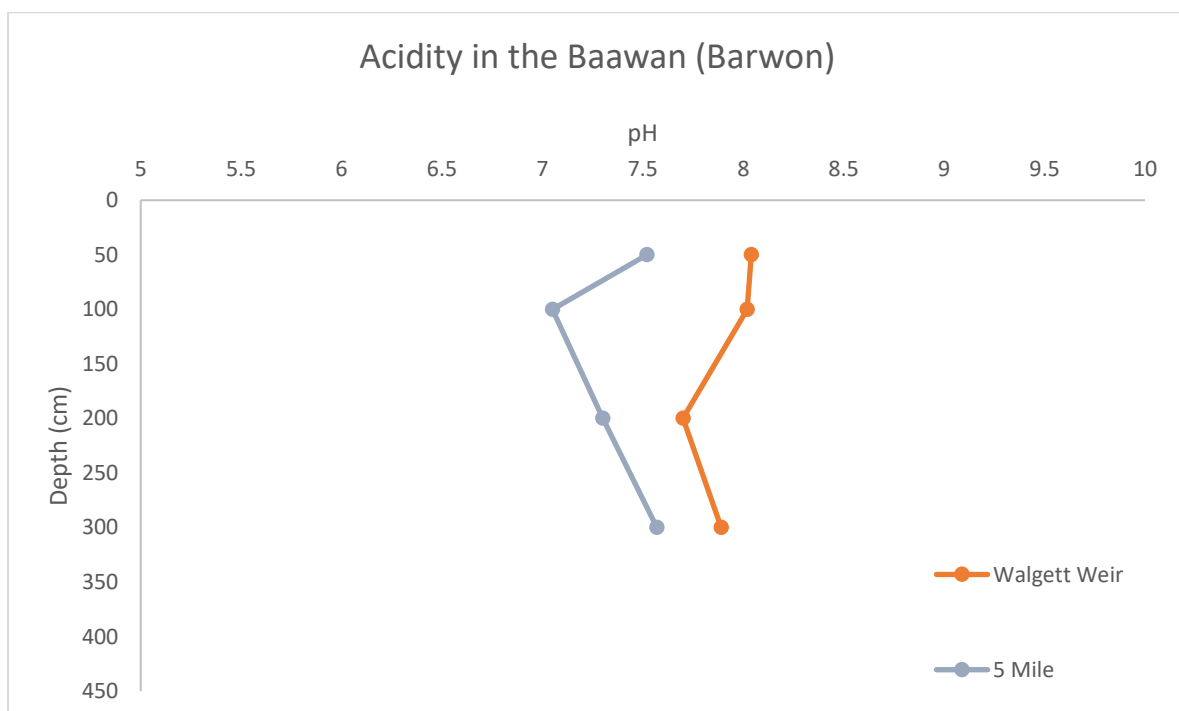
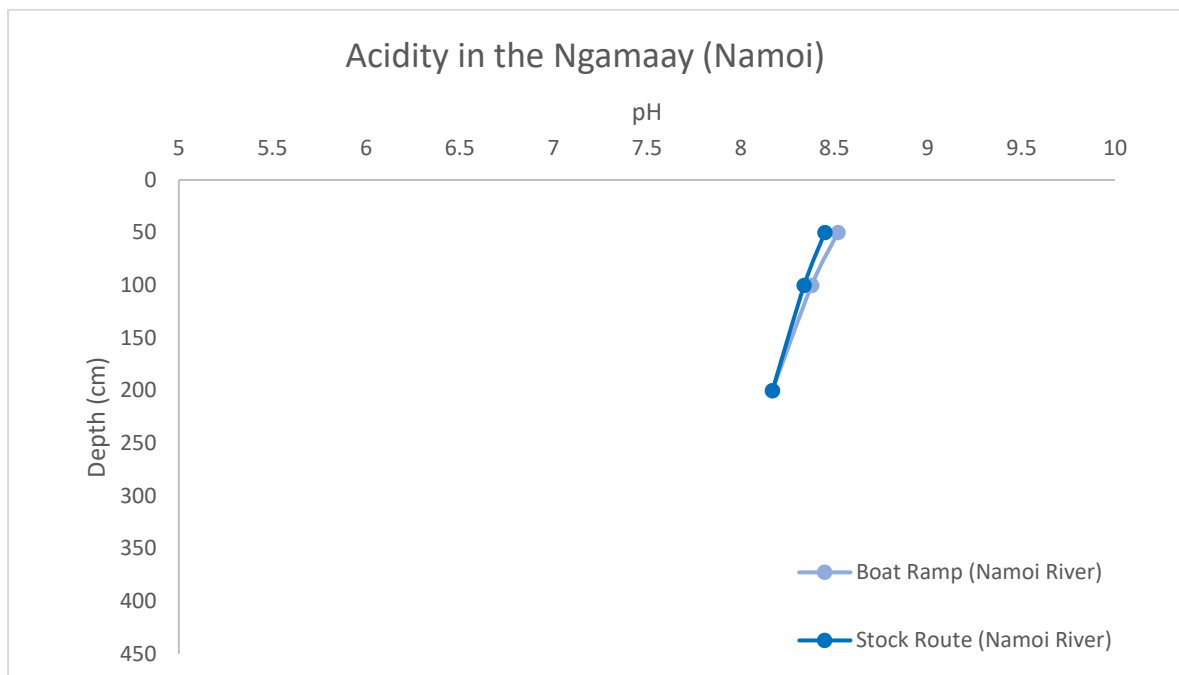


(Picture: Dharriwaa Elders Group area of interest)

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



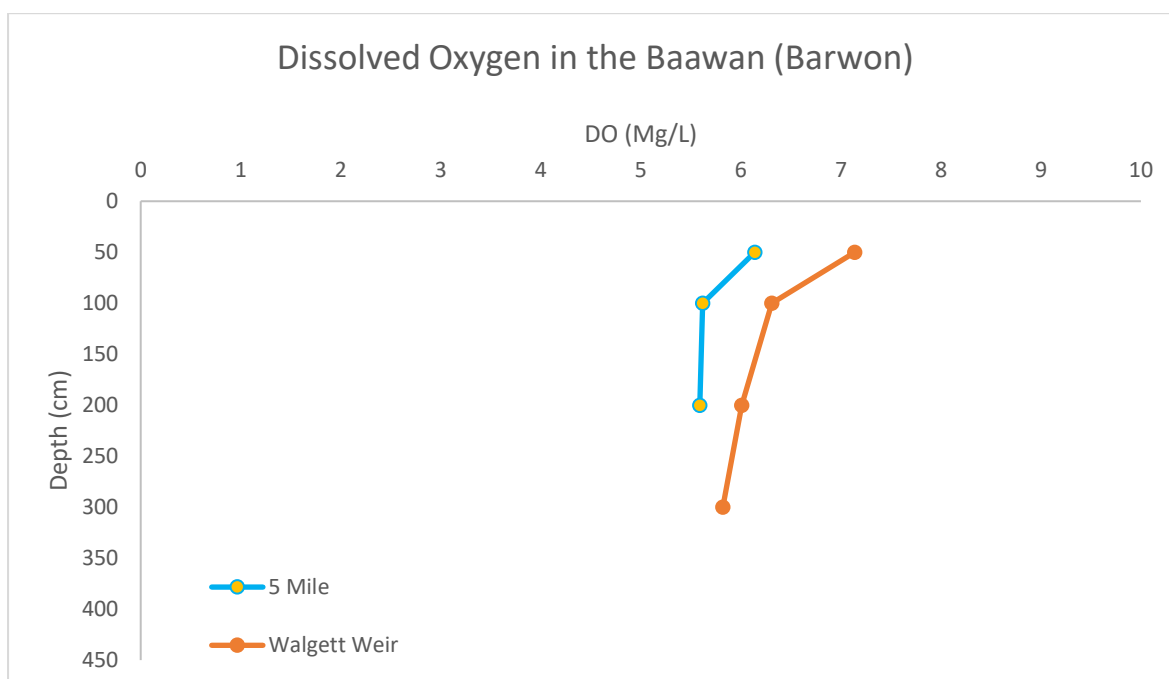
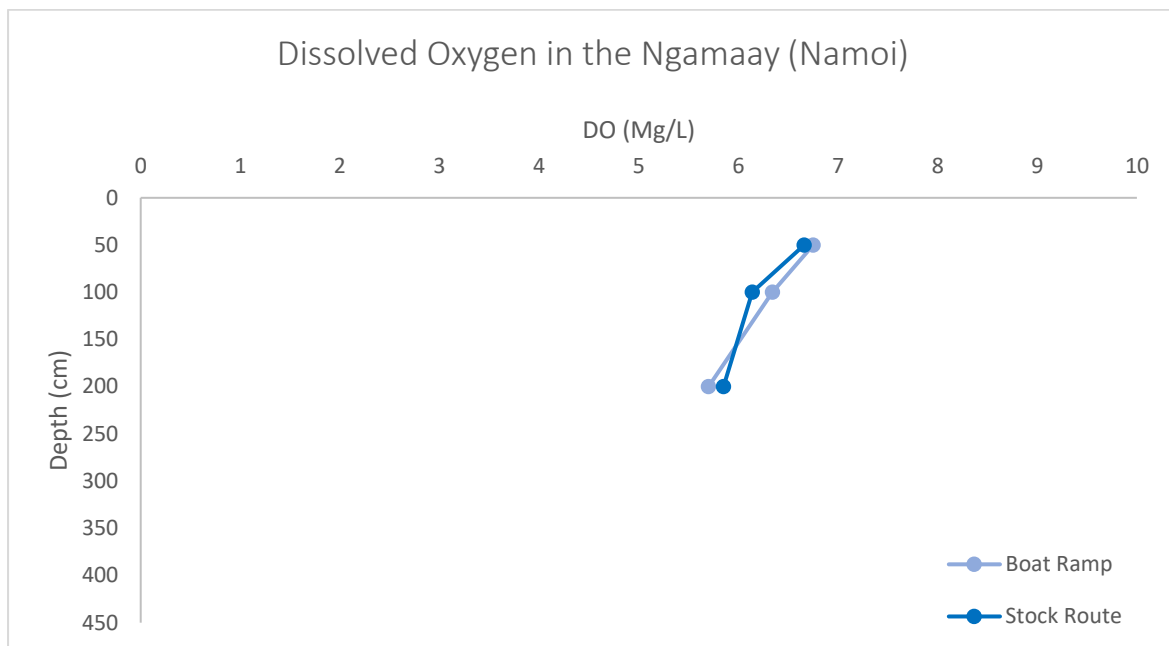
Acidity in the Ngamaay and Baawan Rivers



The pH is in the healthy range at the Stock Route (Ngamaay River), Walgett Weir and 5 Mile (Baawan River). The first reading at the Boat Ramp (Ngamaay River) is outside the healthy range. The maximum reading is 8.52 and the minimum reading is 7.05.

Healthy range: 6.5 - 8.5 pH

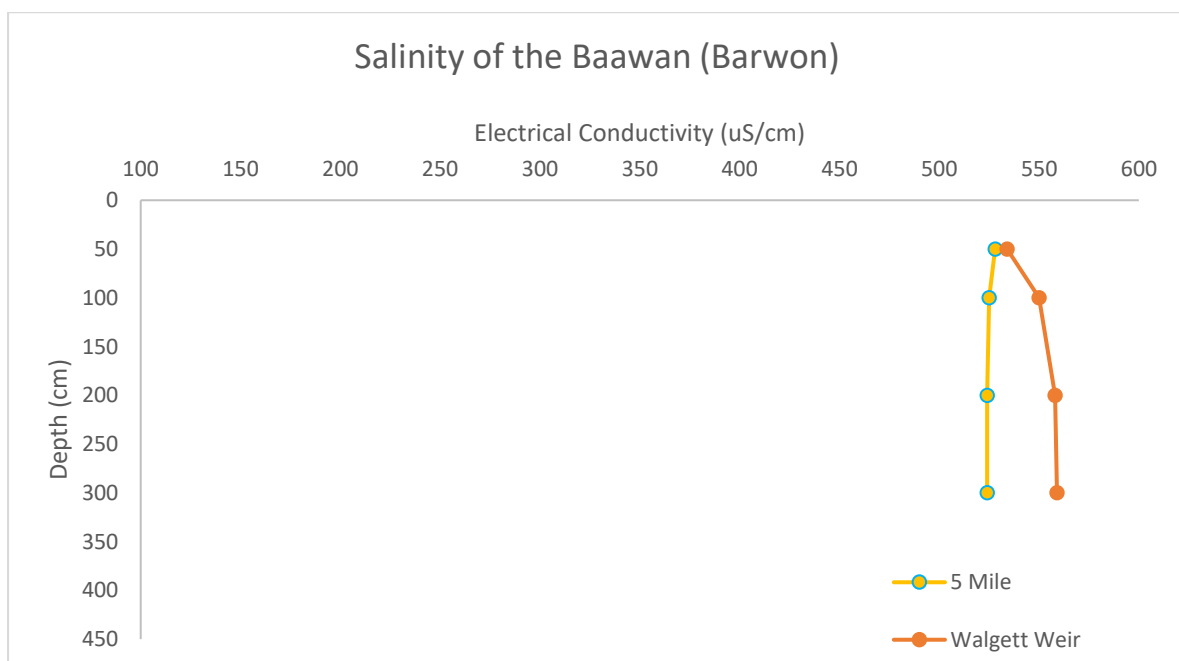
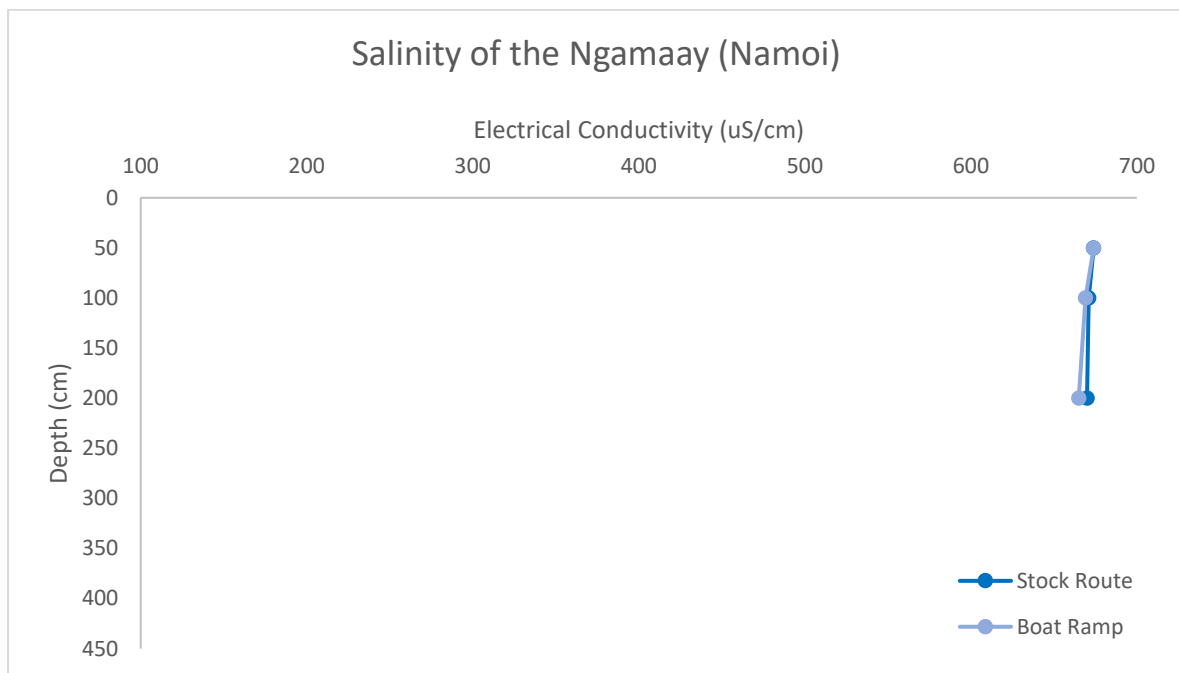
Dissolved Oxygen in the Ngamaay and Baawan Rivers



The first two readings of dissolved oxygen at the Boat Ramp and Stock Route (Ngamaay River) is within the healthy range but the last reading at both sites are outside the healthy range. The first reading at the 5 Mile (Baawan River) is in the healthy range, the last two readings are outside the healthy range. The first three readings at the Walgett Weir (Baawan River) is in the healthy range, the last reading is outside the healthy range. The maximum reading is 7.14 and the minimum reading is 5.59.

Healthy Range: 6 - 8 (Mg/L)

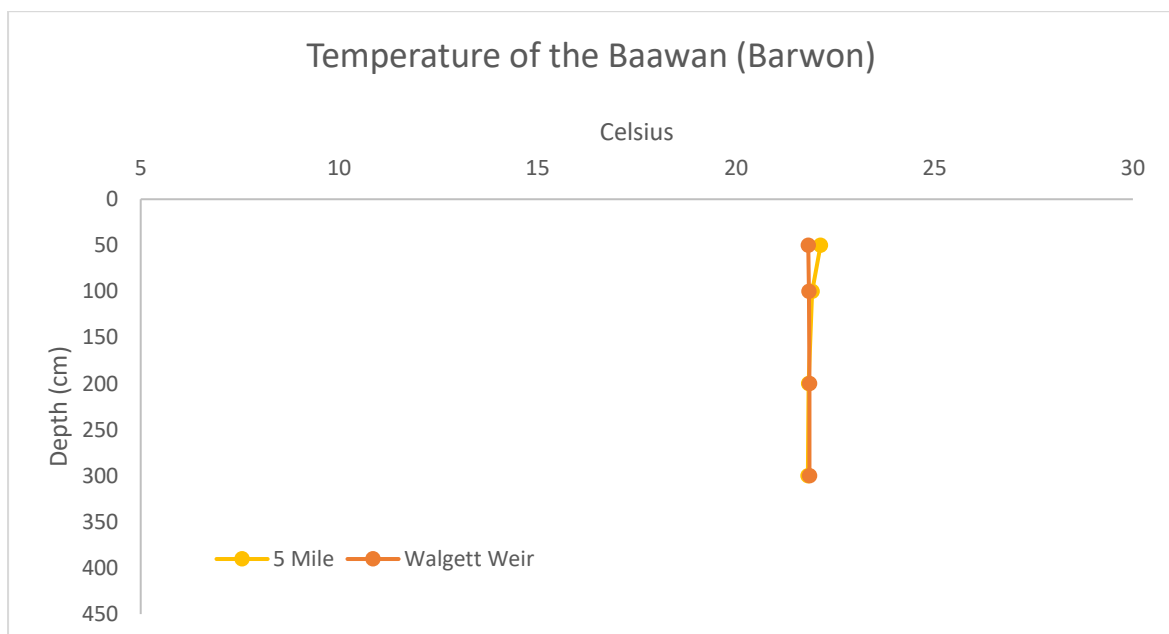
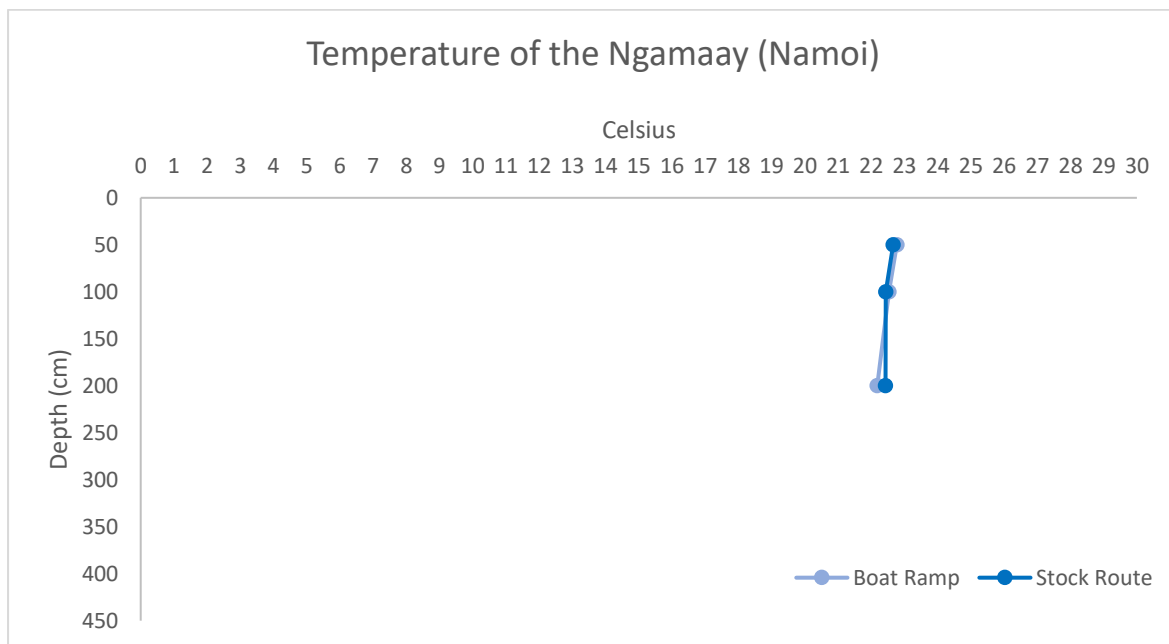
Salinity in the Ngamaay and Baawan Rivers



The salinity at all sites in the Ngamaay and Baawan Rivers is within a healthy range. The maximum reading is 674 and minimum reading 524.

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan Rivers



The temperature at all sites and all depths in the Ngamaay and Baawan Rivers are in a healthy range. The maximum reading is 22.77 and the minimum reading is 21.81.

Healthy Range: 18-28 degrees (Celsius)

Conclusion

The pH readings in the Ngamaay and Baawan Rivers are within the healthy range. There is only one reading at the Boat Ramp (Ngamaay River) that is outside the healthy range.

Majority of the dissolved oxygen readings in the Ngamaay and Baawan Rivers is in the healthy range.

The salinity is in the healthy range. This is good for the freshwater fish. The temperature in both Rivers are in the healthy range.