

BIMES AGM April 2025 Water Quality Annual Report Mossom Creek Hatchery

Presented by

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Mossom Creek and Schoolhouse North Creek Water Quality



This is our sixth year of monitoring the water quality which started in October of 2019. Water temperature, dissolved oxygen, pH, Conductivity, Total Dissolved Solids, Turbidity, Phosphates, Nitrates and Ammonia are the parameters we measure.

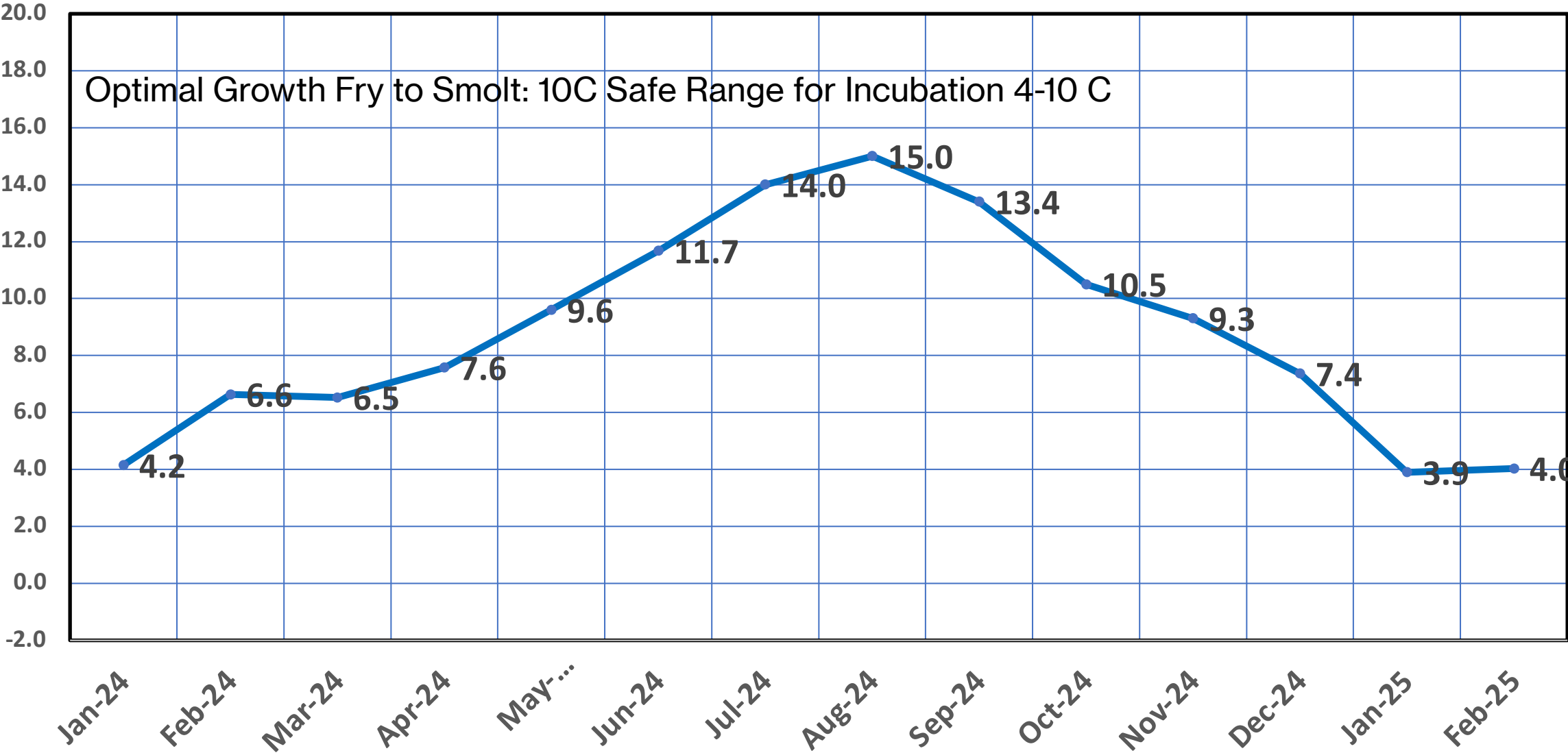


In 2024 our team tested Mossom Creek for 49/52 Sundays and Schoolhouse North Creek for 38/52 Sundays. Water Quality Data from January to December 2024 indicates good water quality within the BC Water Quality Guidelines .

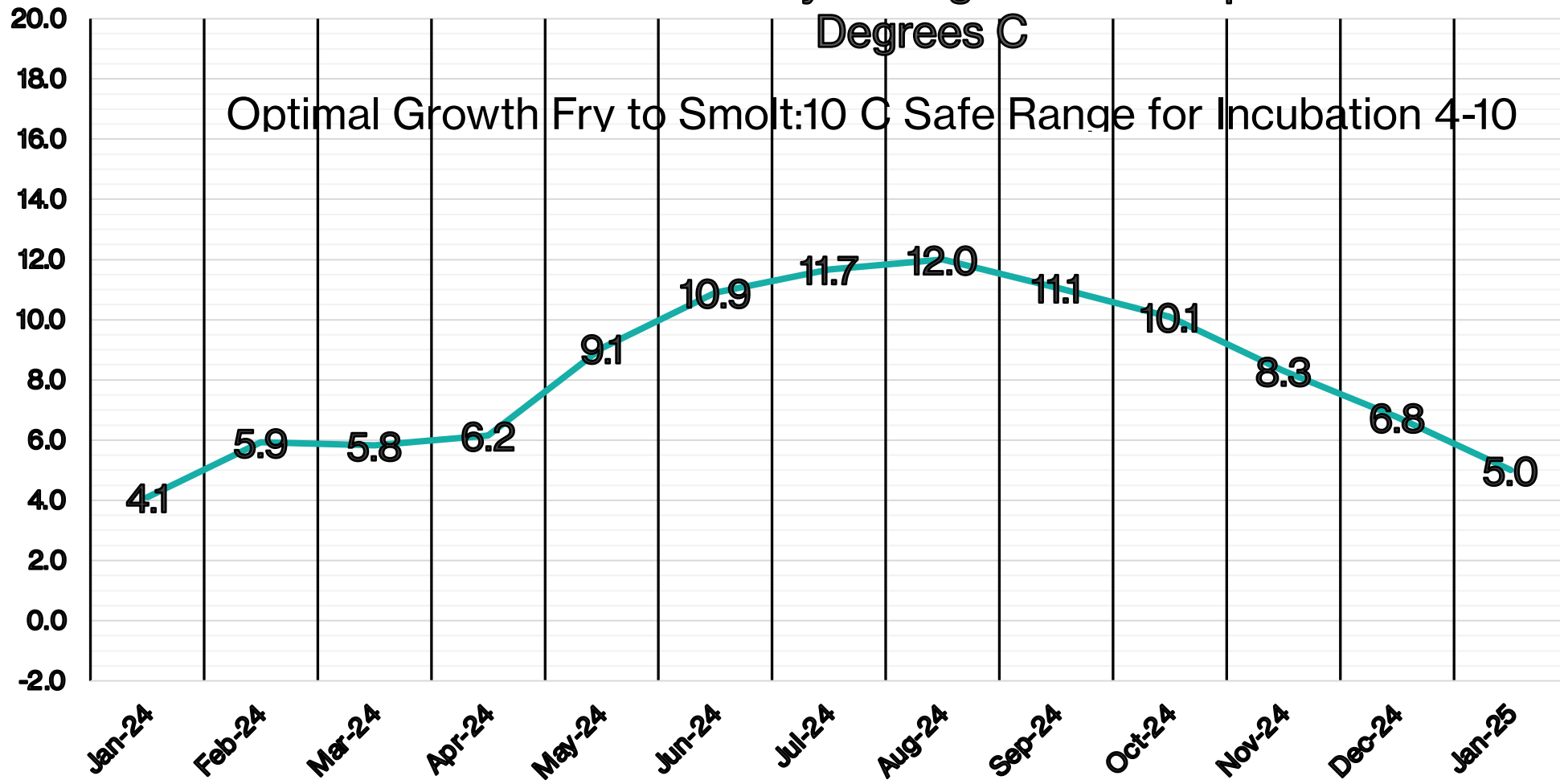


Access values for parameters BC Water Quality Guidelines at [bcgov/shinywqg](https://bcgov.shinywqg)

Schoolhouse North Creek - Monthly Average Water Temperature 2024 Degrees C



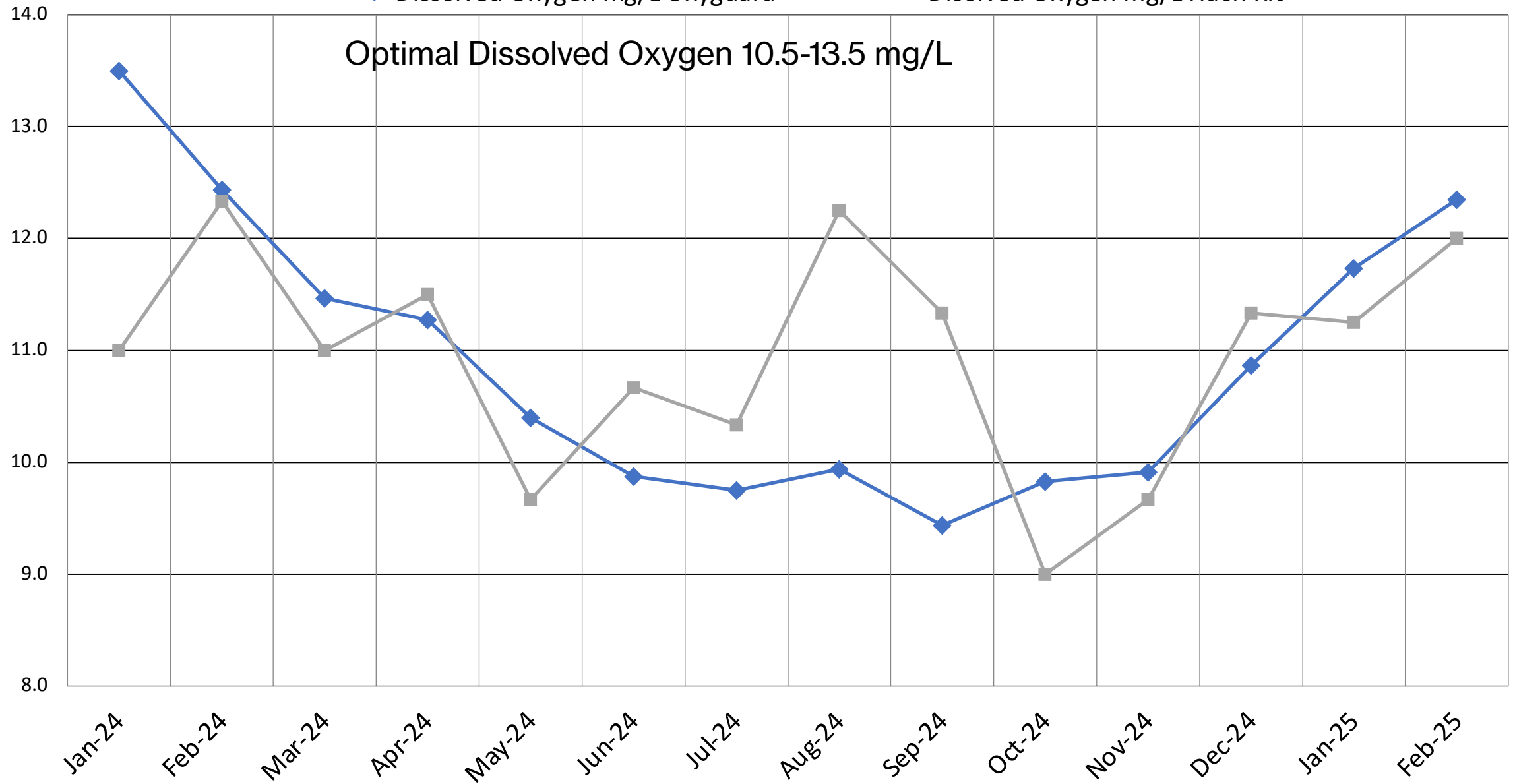
Mossom Creek – Monthly Average Water Temperature 2024- Degrees C



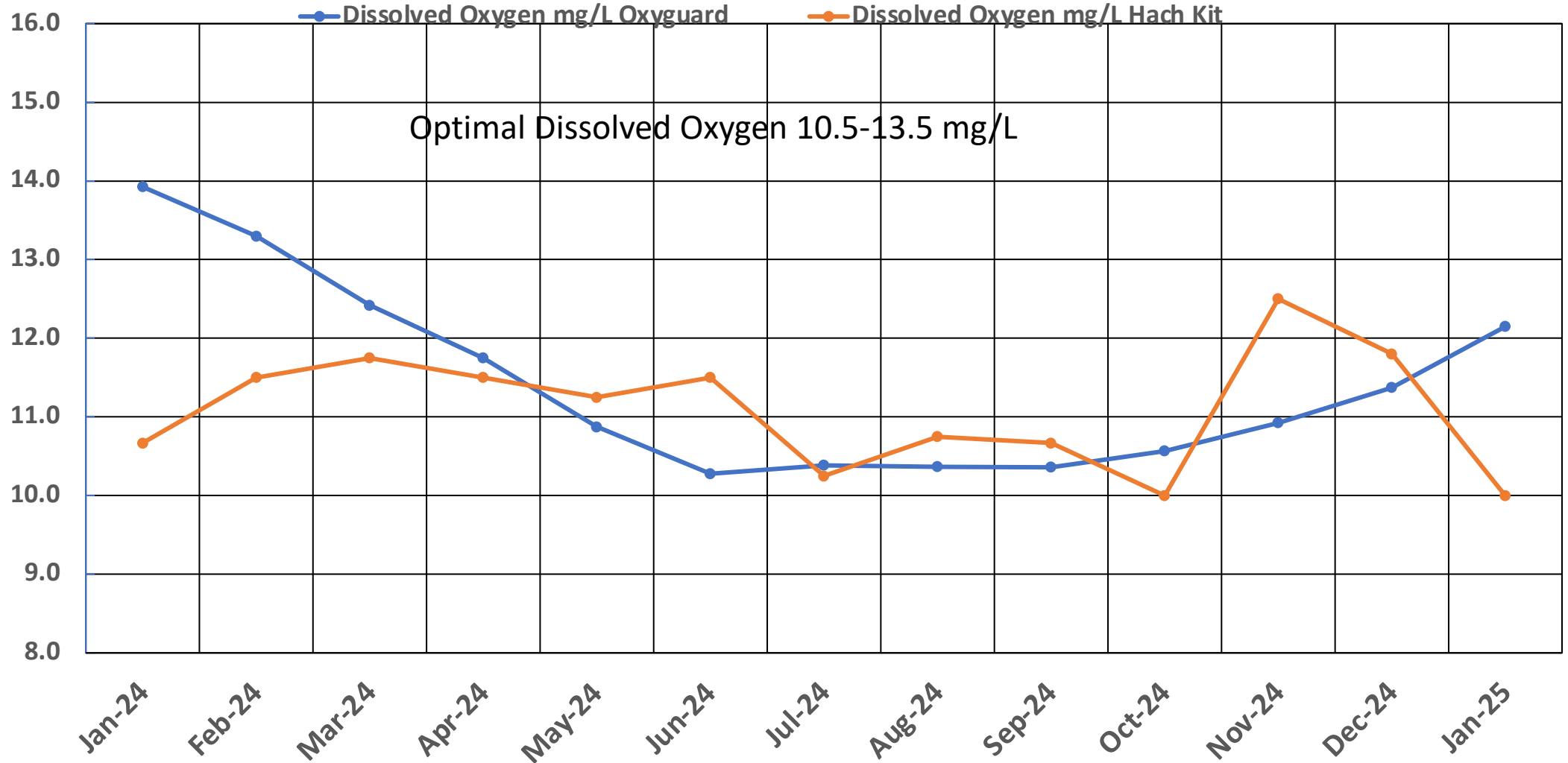
Schoolhouse N. Creek - Dissolved Oxygen 2024

◆ Dissolved Oxygen mg/L Oxyguard ■ Dissolved Oxygen mg/L Hach Kit

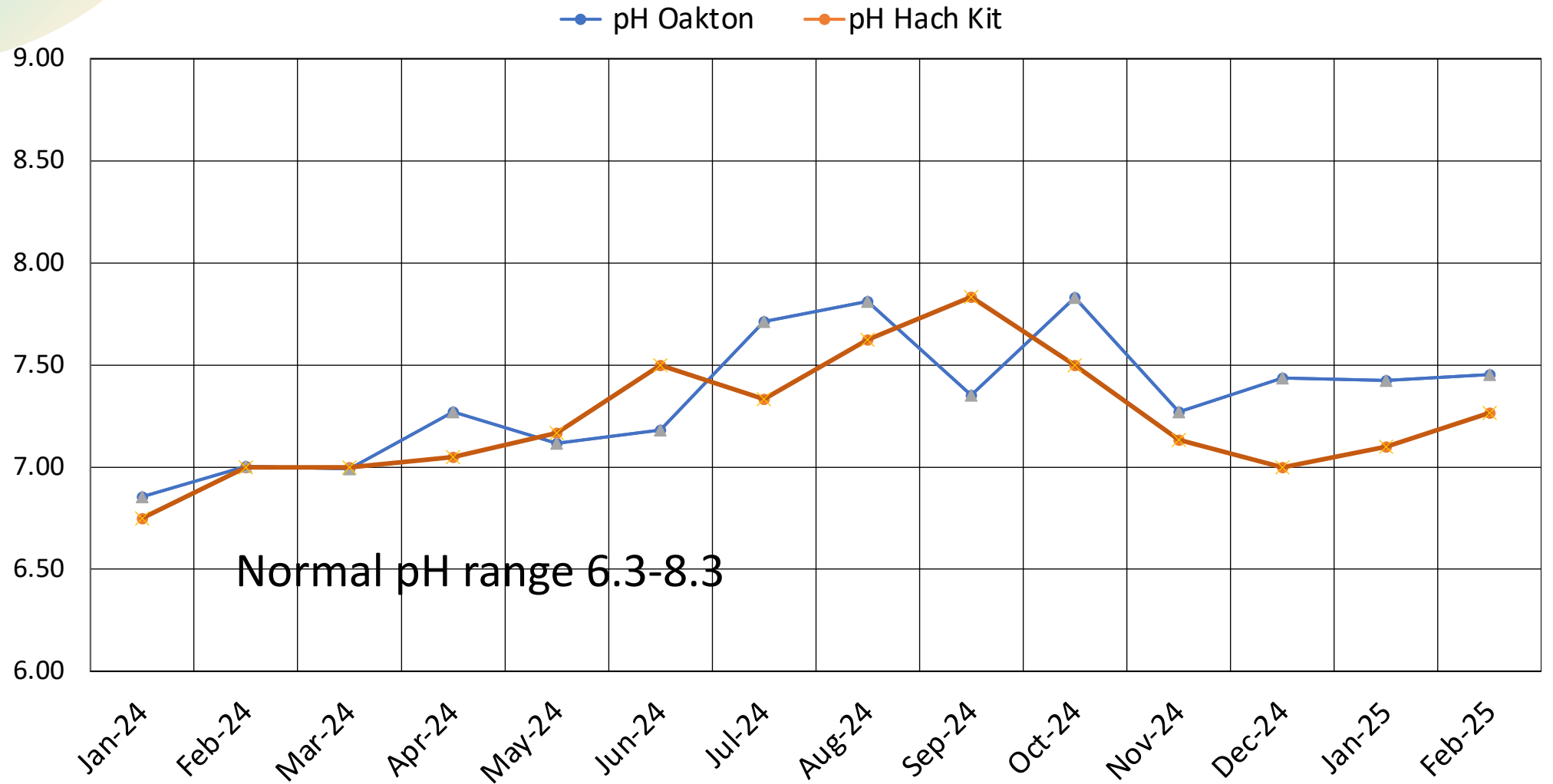
Optimal Dissolved Oxygen 10.5-13.5 mg/L



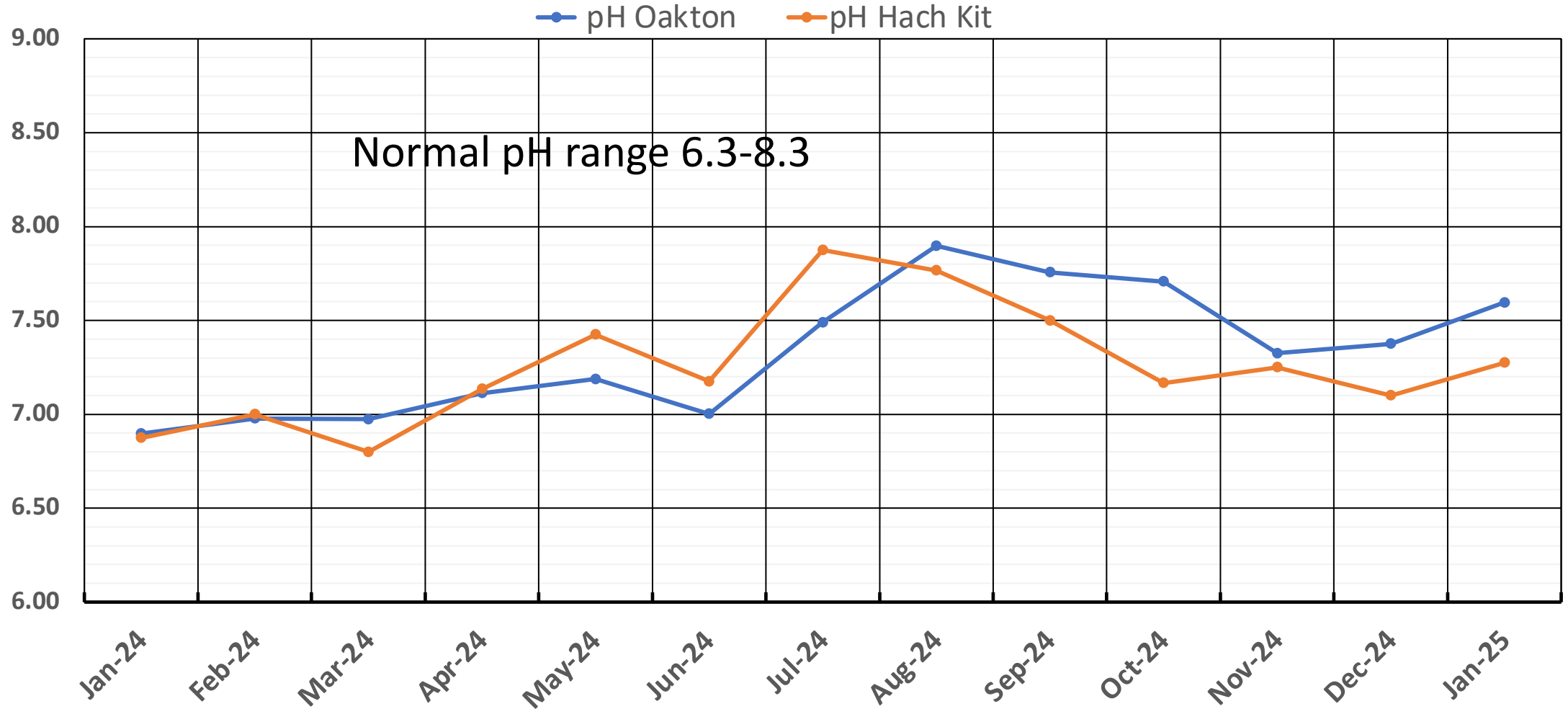
Mossom Creek - Dissolved Oxygen - Monthly Average 2024



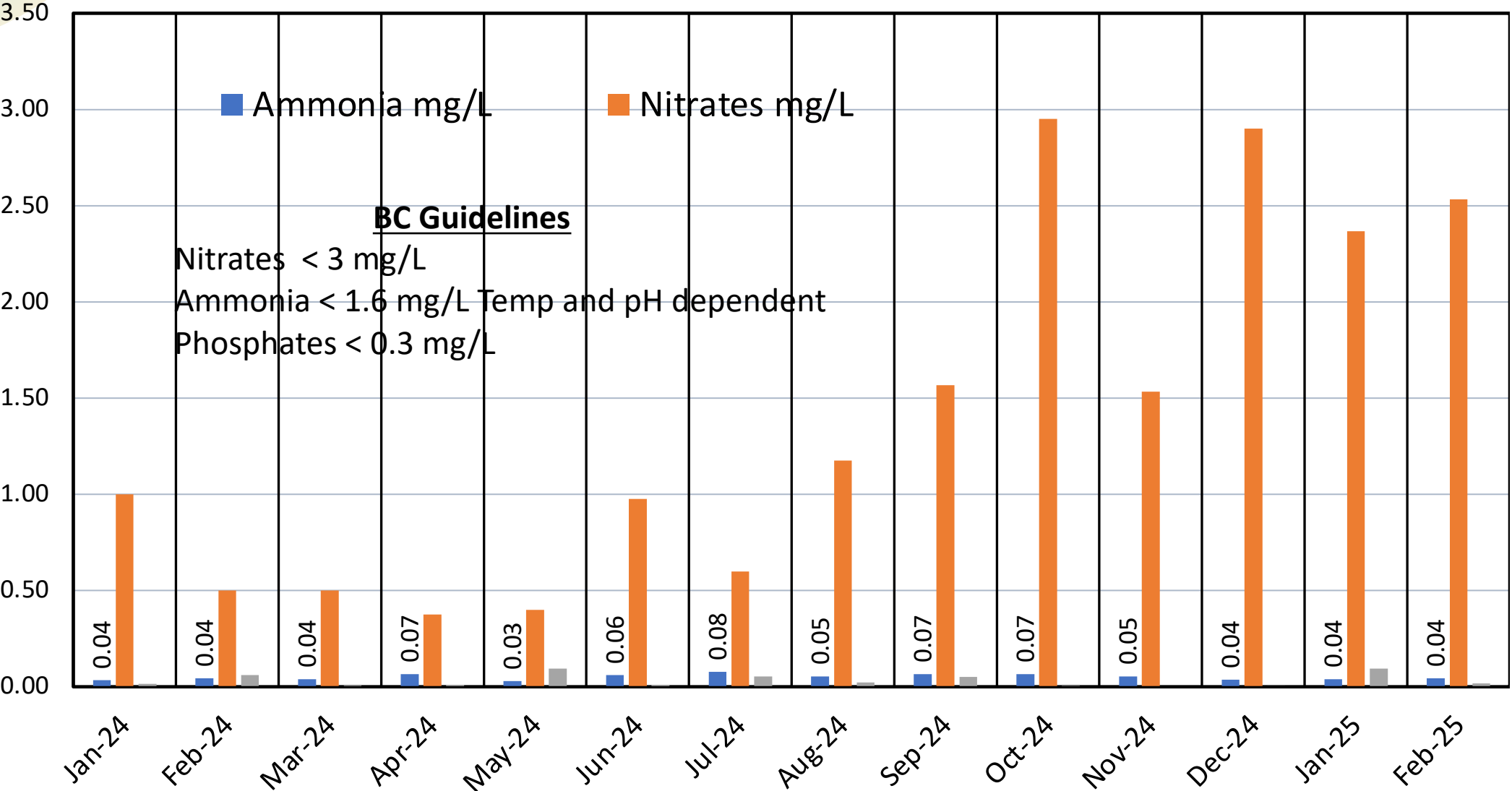
Schoolhouse N. Creek - Monthly Average pH values 2024



Mossom Creek - pH Monthly Averages 2024

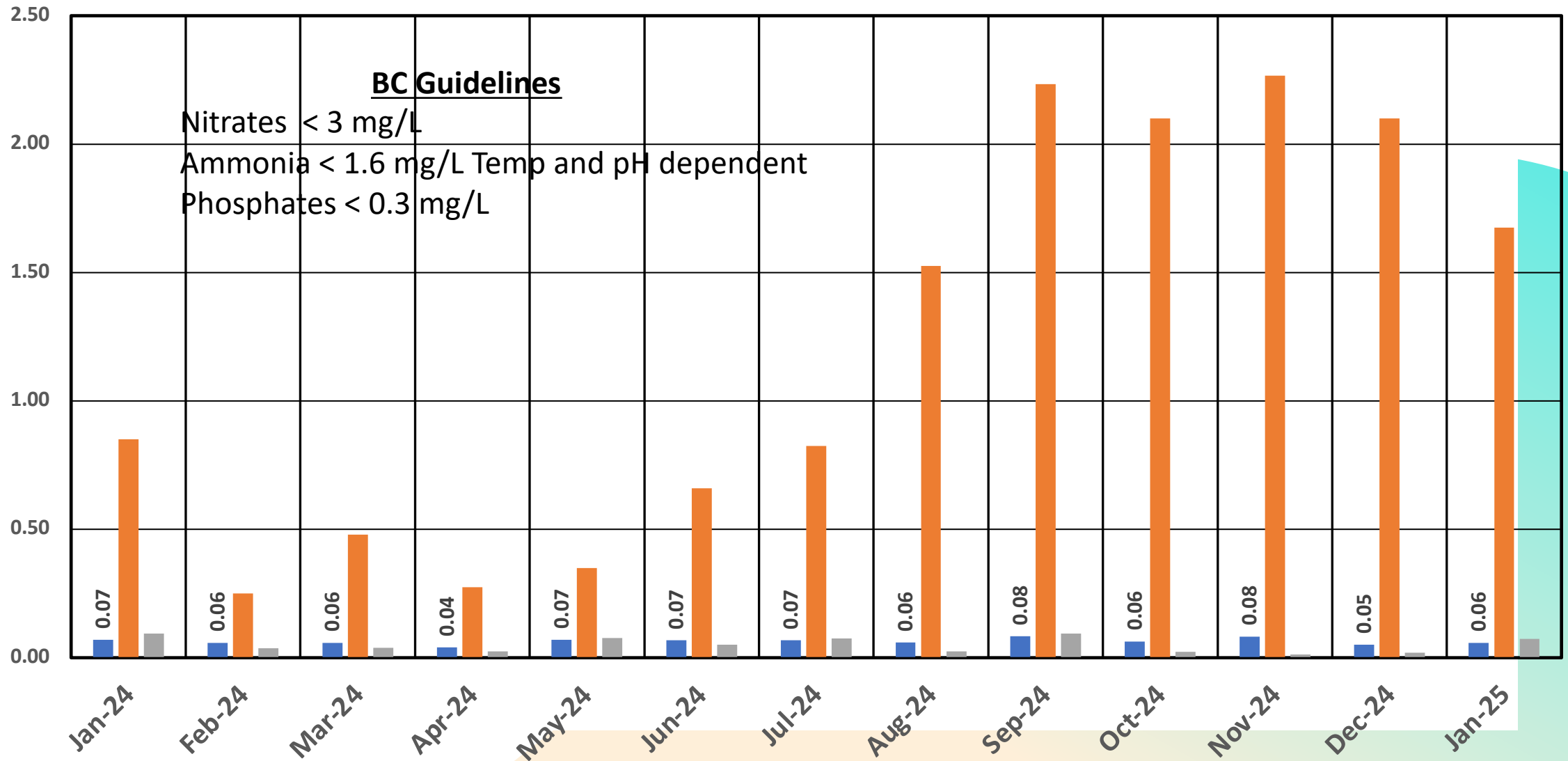


Schoolhouse N.Creek - Monthly Averages 2024; NH3 , NO3, PO4

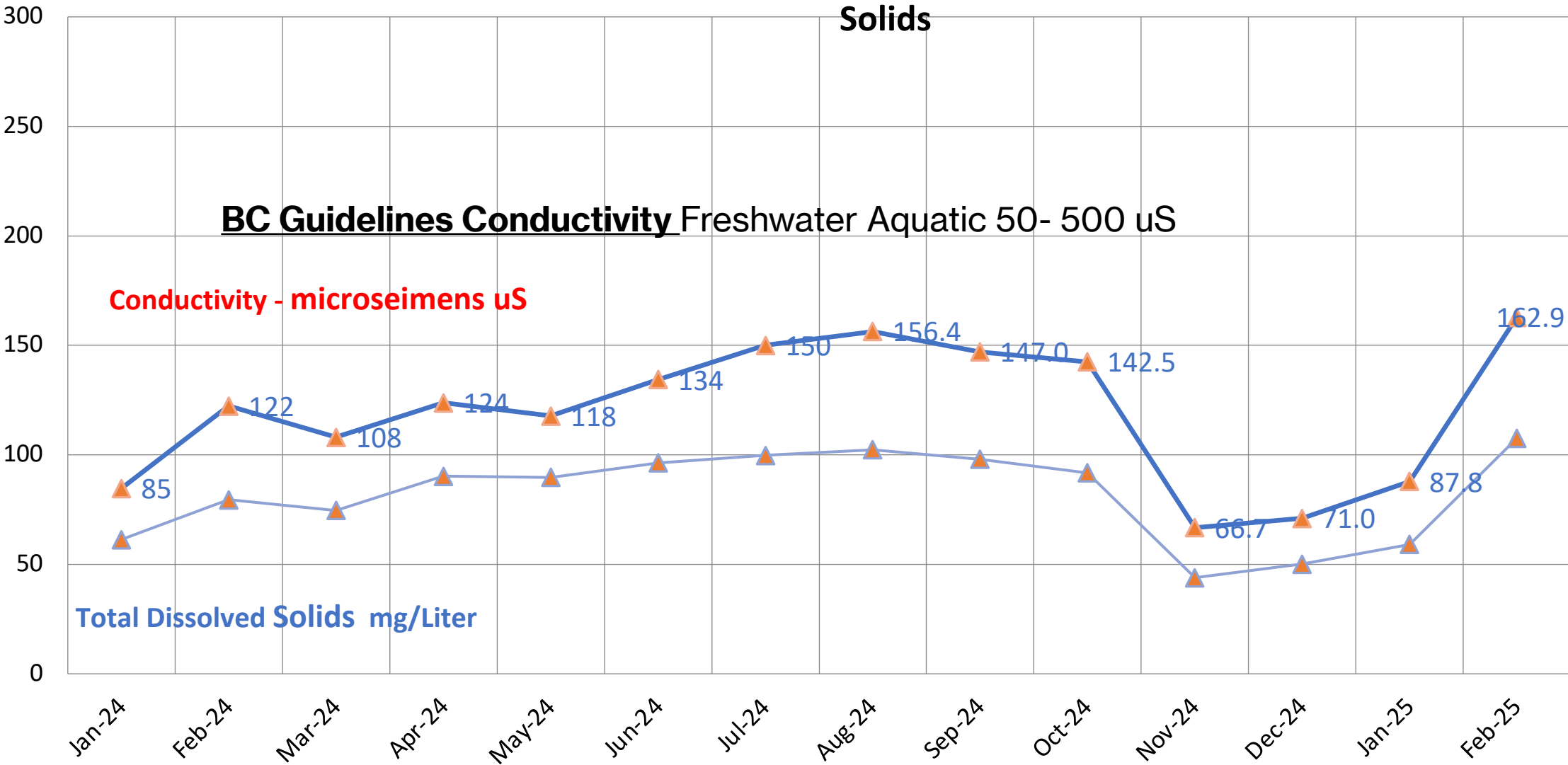


Mossom Creek - Monthly Averages; NH3 , NO3, PO4 - 2024

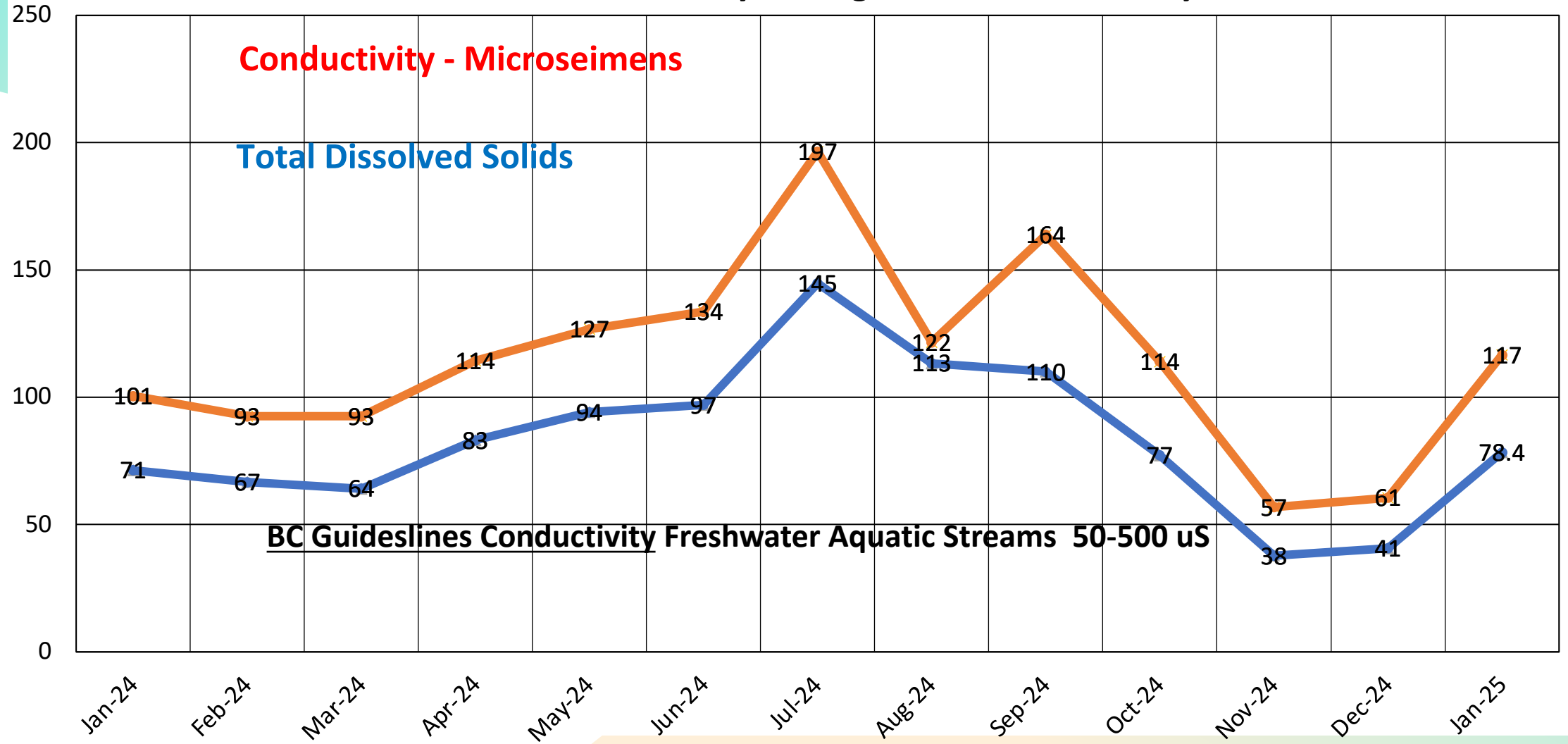
Ammonia mg/L Nitrates mg/L Phosphates mg/L



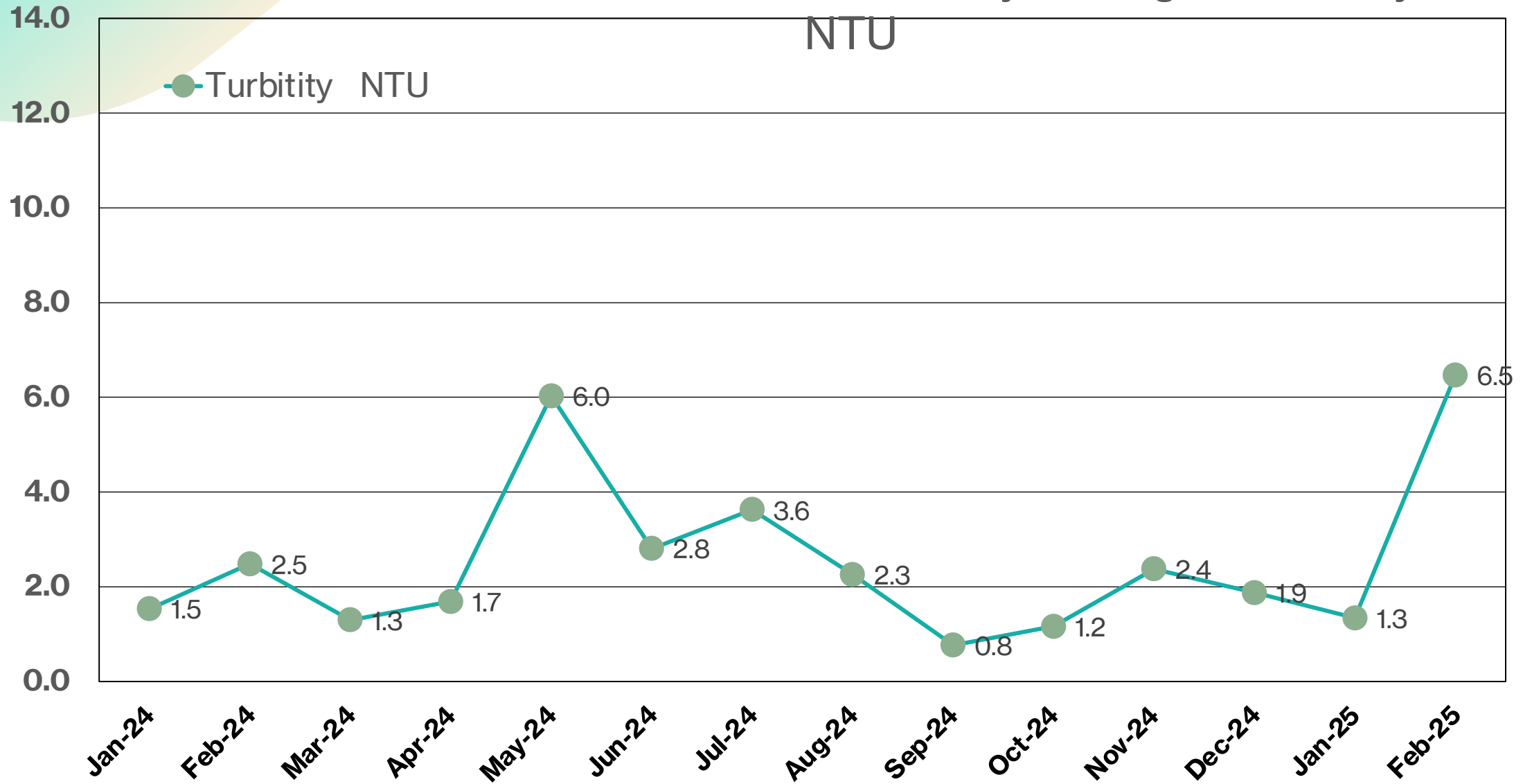
Schoolhouse N. Creek Monthly Average 2024 - Conductivity & Total Dissolved Solids



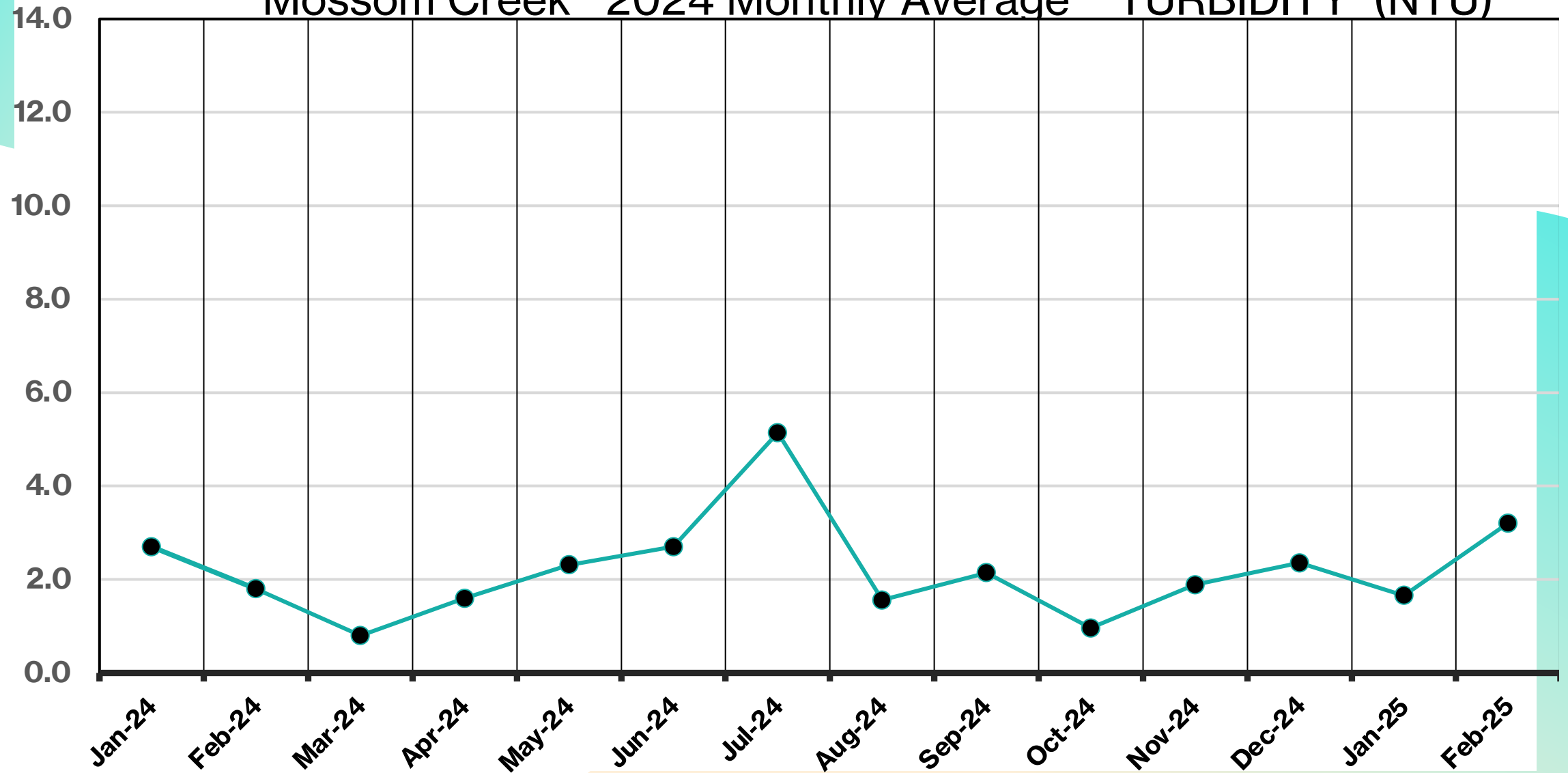
Mossom Creek Monthly Average 2024 - Conductivity&Total Dissolved Solids



Schoolhouse North Creek - Monthly Averages Turbidity



Mossom Creek 2024 Monthly Average TURBIDITY (NTU)



DataStream Canada wide platform for Water Quality Data

- Since May 3 of 2022 our water quality data from 2021 to 2025 has been uploaded to the Pacific Region DataStream Platform <https://doi.org/10.25976/yerz-pz92>
- Approximately every three months our new data is uploaded thanks to Neil Laffra. Nell Libera is our Pacific Region DataStream Advisor based in Vancouver.
- This open data sharing platform advances scientific knowledge and supports collaboration. It connects communities to their watersheds and allows us to see any changes, positive or negative over time.
- This knowledge can be translated into action to help protect the health of our watersheds on which our salmon and biotic environments depend.

A big thank you to our incredible Mossom Creek Water Quality team! We couldn't do this work without you!

Daniel and Harrison are into their third year of volunteering with us on a regular basis. Ethan and Justin have learned over 90% of the testing methods. Many others offer to pitch in when we need extra help like Paulette. We love getting the younger volunteers to do some Water quality testing as well.

A special thanks to Vicki and Aniela who take over when I'm away. Also, Vicki leads our five year Road Salt and Salmon Study which is now into its third year. See Vicki's AGM report of the work this team completed .





This huge tree fell sometime after a storm in the fall.

We take our Mossom water sample just above the Intake. During this time the dissolved oxygen is measured using the Oxyguard Polaris C meter and water temperature is also taken.



Daniel and Tyler



Ethan



Addy and June assist with measuring O_2 using the Hach titration method.

Liam and Aniela take over when I'm away.





Vicki and Dominik. Vicki leads the Road Salt and Salmon Project for Mossom Creek.



Neil replaces the membrane and electrolyte on Oxyguard Meter. He also does the uploading of our water quality data to DataStream.

A big thanks to Paul Steeves for the awesome photos of all our volunteers and visitors on Salmon Sundays plus other Mossom events

We are very grateful for the generosity of all our individual donors plus the Pacific Salmon Foundation, Pacific Streamkeepers Federation and DFO team for help with funding our Water Quality Program.

Finally, we thank our BIMES Board for their enthusiastic support of our Water Quality team.

