

WCWC Pilot Testing

Conventional Treatment Optimization for Big Grassy First Nation

In 2019, the Walkerton Clean Water Centre (WCWC) completed a project with Big Grassy First Nation in Northwestern Ontario, which has been on a long-term boil water advisory since 2017. The community's source water is Lake of the Woods which can have high turbidity during lake turnover events. WCWC performed jar testing to optimize conventional treatment for the reduction of turbidity and colour naturally present in the raw water. The water quality was monitored and results for varying doses of coagulants and polymers and pH adjustments were provided to the community. The project was beneficial for the community and their engineering consultant in

designing the drinking water treatment system expansion.

Visit our online library at wcwc.ca/Drinking-Water-Resource-Library to view the full report and other pilot testing reports and presentations.

To learn more about WCWC's pilot testing services, visit wcwc.ca/pilottesting or contact us at 1-866-515-0550 or inquiry@wcwc.ca.



Jar testing experiments being performed for conventional treatment optimization in the WCWC laboratory

Do you experience any of the following water quality issues?

- organics
- disinfection by-products
- iron and manganese
- arsenic
- taste & odour
- turbidity and more

Pilot and bench scale testing units include:

- conventional
- dissolved air flotation
- membrane filtration
- granular activated carbon
- ion exchange
- slow sand filtration
- ozone
- ultraviolet light
- advanced oxidation processes