

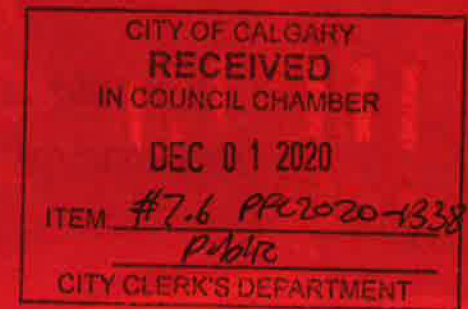


Cost to reintroduce Fluoride in the Water Treatment Process

Utilities and Environmental Protection

PFC2020-1338

ISC: Unrestricted





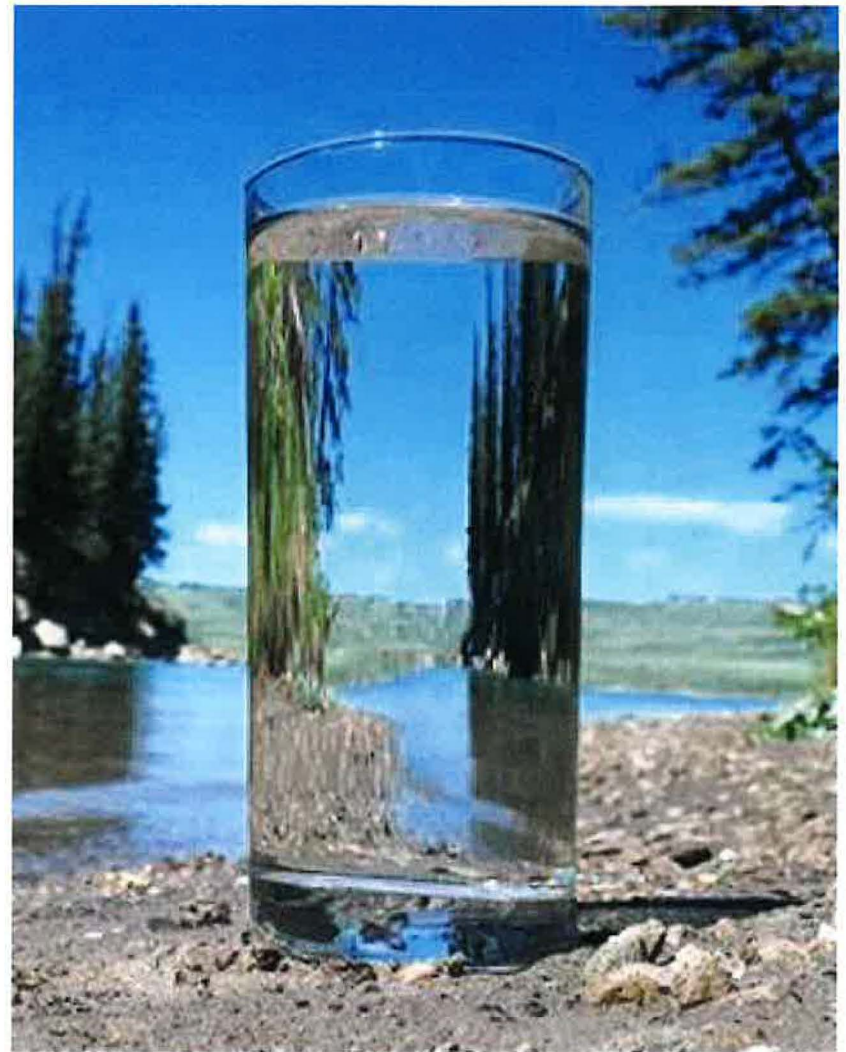
Why We Are Here:

On November 18, 2019 (CPS2019-0965) Council Directed administration to:

- Undertake a full cost analysis for the potential reintroduction of fluoride into the water system including ongoing projected operational cost,
- Provide clarity on The City's authority and jurisdiction with regard to fluoridation,
- Report on the potential impact to Utility Rates if fluoridation is reintroduced to the water treatment process.

Cost of Fluoride Reintroduction is influenced by

- Fluoride Selection and Dosing Requirements
- Regulations
- Capital and other Operational Costs





Fluoride Selection and Dosing Requirements

Alberta Environment and Parks standard and guidelines:

- Required to be certified for drinking water by the National Sanitation Foundation

Recommendation if Fluoridation is reintroduced:

- The same fluoride additive that Calgary used historically

Health Canada's *Guidelines for Canadian Drinking Water Quality*

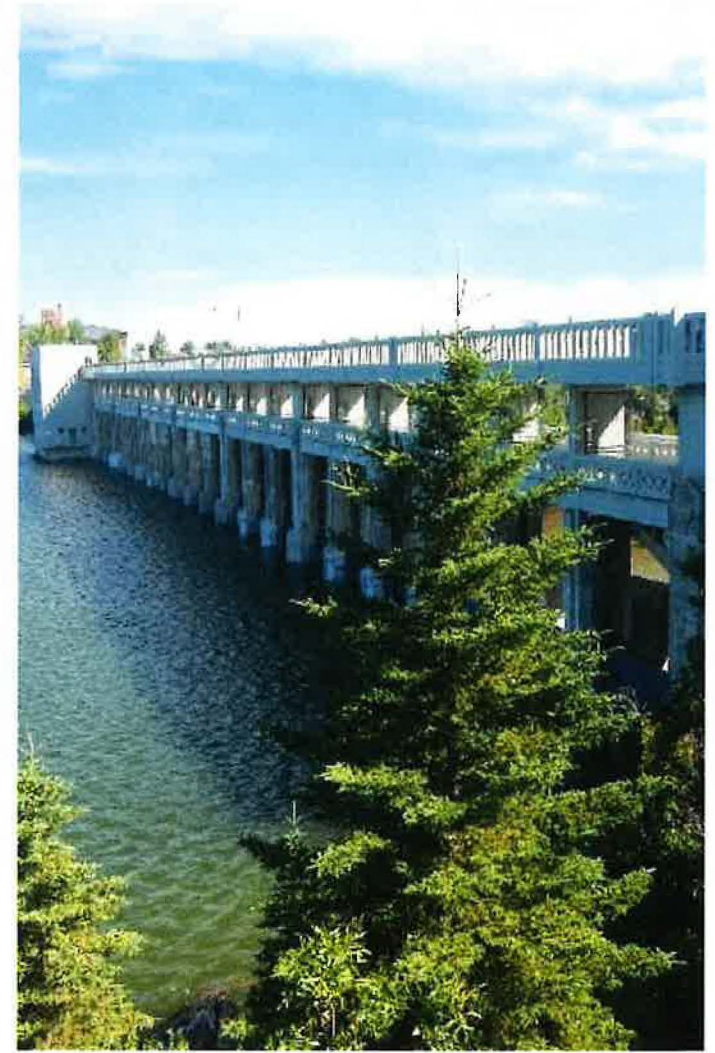
- Recommended dose is still 0.7 mg/L
- Maximum allowable concentration is still 1.5 mg/L





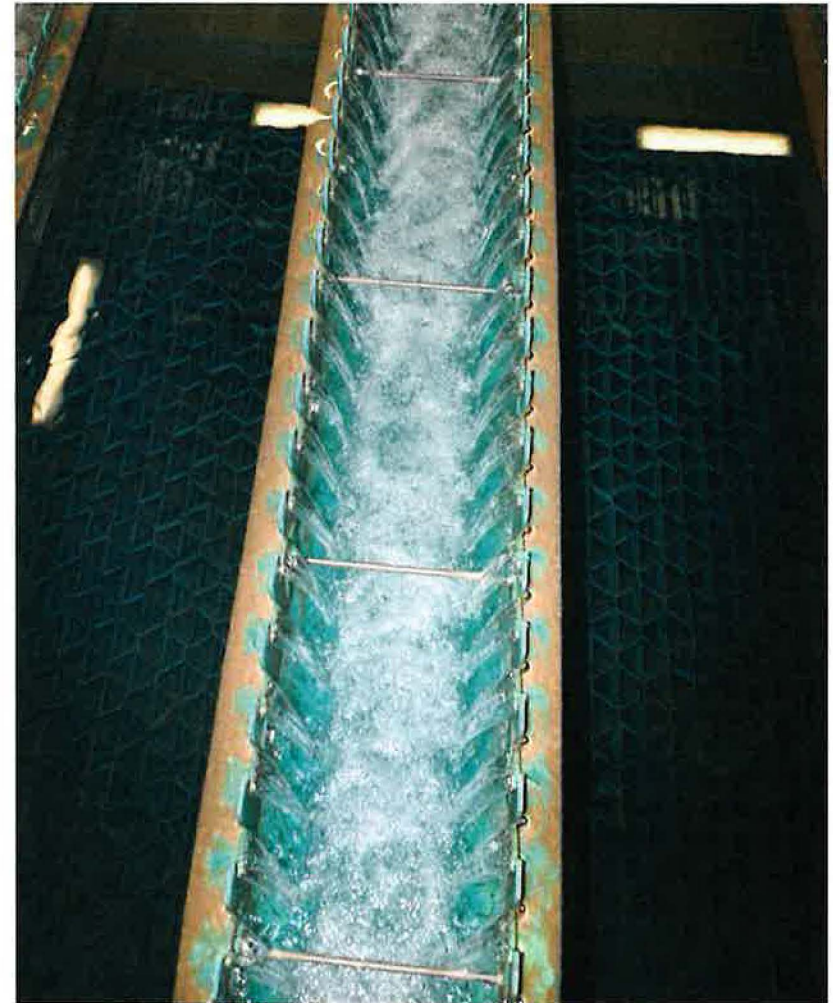
Regulation and Jurisdiction Considerations

- Municipal Government Act
 - The introduction of fluoride no longer requires a plebiscite or authorization through a bylaw.
- Alberta Environment Parks
 - Would require an amendment of our operating approval to reflect water fluoridation.



Cost Estimates to Reintroduce Fluoridation

- Estimated Cost to reintroduce fluoridation:
 - Capital Costs - \$10.1 M (-30% / + 50% estimate)
 - Annual Operating and Maintenance costs – approximately \$1.0 M
- Current operating and capital budgets do not include the costs associated with drinking water fluoridation. Should Council direct this work in the future, a budget request will be prepared.
- The investment and expenditure due to the reintroduction of fluoride would not require an increase to Water Rates.





Recommendations

That the Priorities and Finance Committee recommends that Council receive this report for the Corporate Record and subsequent Council discussion.