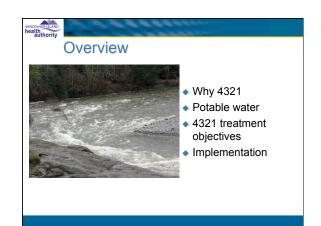


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Why 4321

- Address the concern for emerging pathogens
- Improve existing systems by adding additional barriers to reduce risk
- Catch up with the rest of the developed countries and the rest of Canada
- New water systems in VIHA with surface water have been required to meet 4-3-2-1 since1997.



authority

Potable Water BC Drinking Water Protection Act

- Water supply systems must provide <u>potable</u> water
- Surface water must be <u>disinfected</u>
- Water must be <u>safe</u> to drink without further treatment



4321 Treatment Objectives

- 4 log removal/inactivation of viruses
- 3 log removal/inactivation of Giardia cysts and Cryptosporidium oocysts
- 2 processes of operation (filtration & disinfection or
- two disinfectants) **1** – NTU turbidity in finished
- 1 NTU turbidity in finished water



ANCOUVER ISLAND nealth authority Implementation

- Policy applies to systems serving more than 500 person/day approx 22 systems
 Water suppliers developed a plan to meet 4-3-2-1
- Operating permit amended to reflect the plan and treatment requirements
- Time required to comply depends on the individual system and degree of improvements needed

