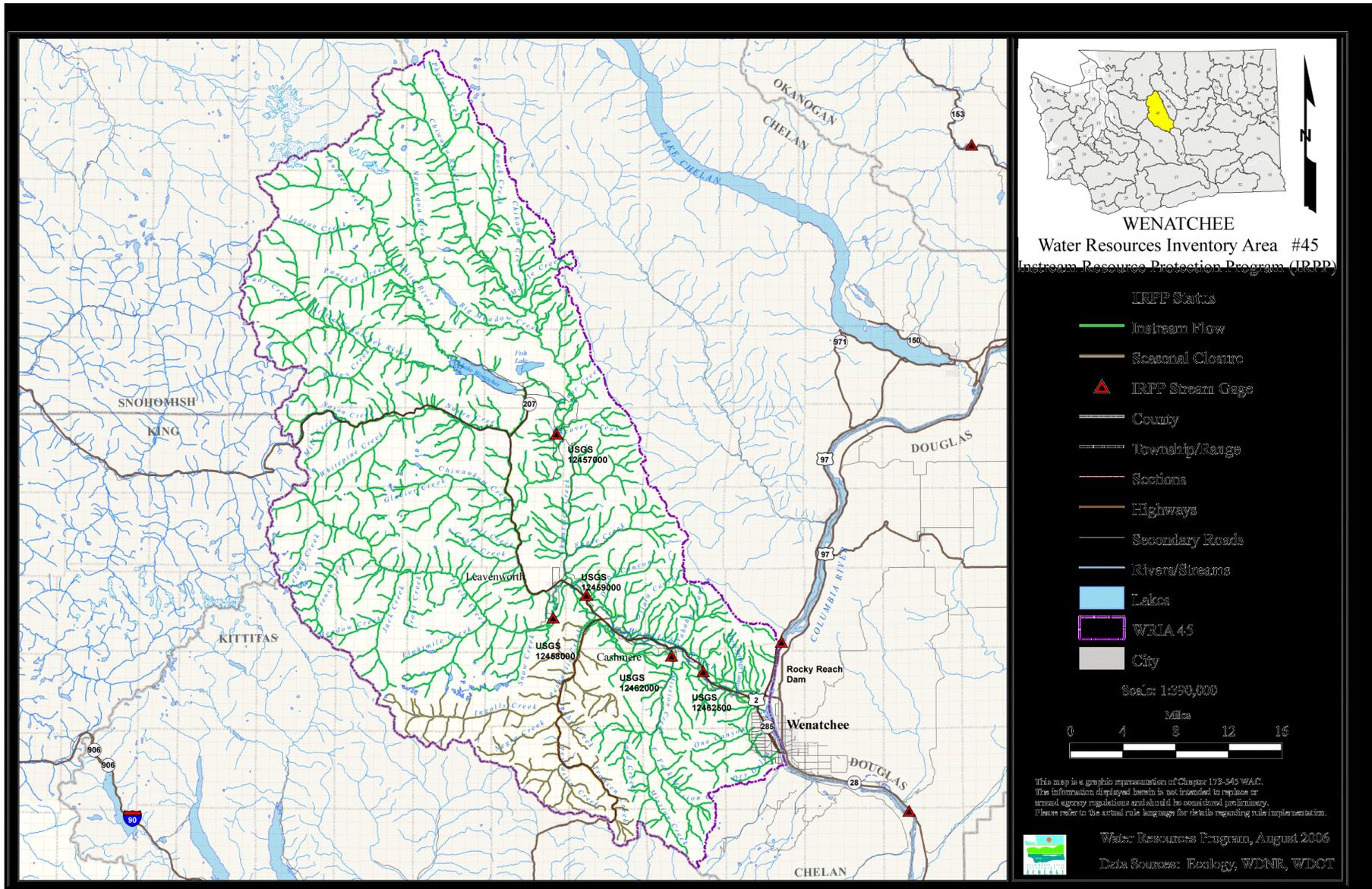


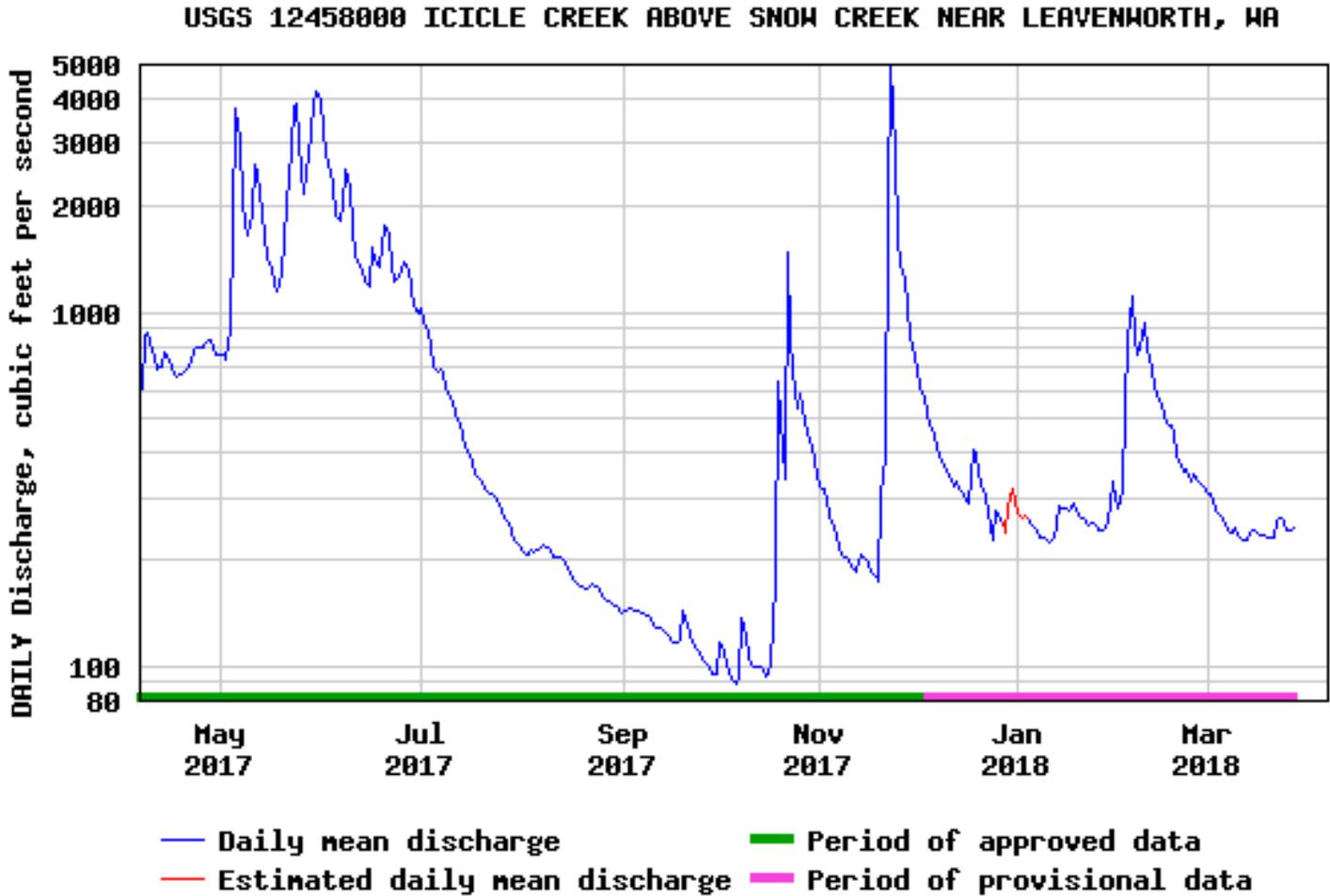
Watershed and Water Treatment



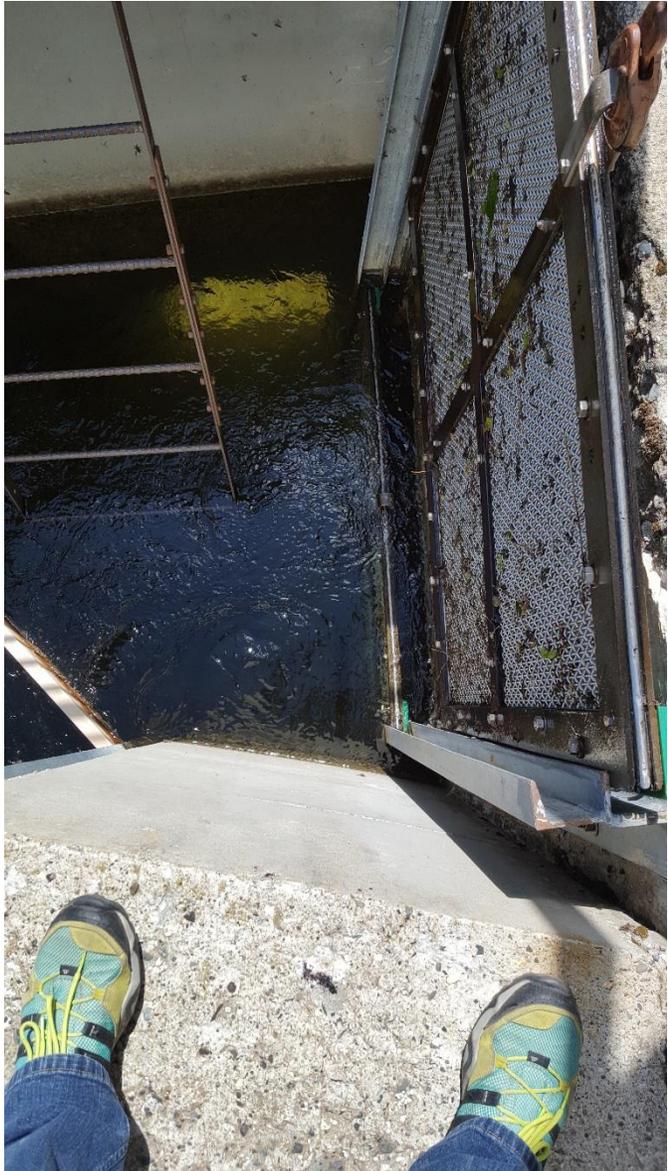
Wenatchee Watershed



USGS data

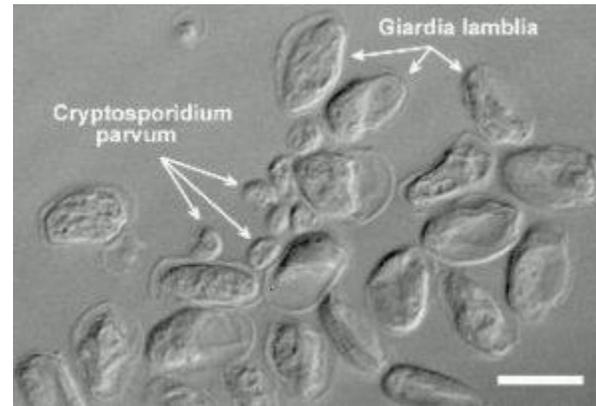


Icicle Creek Intake

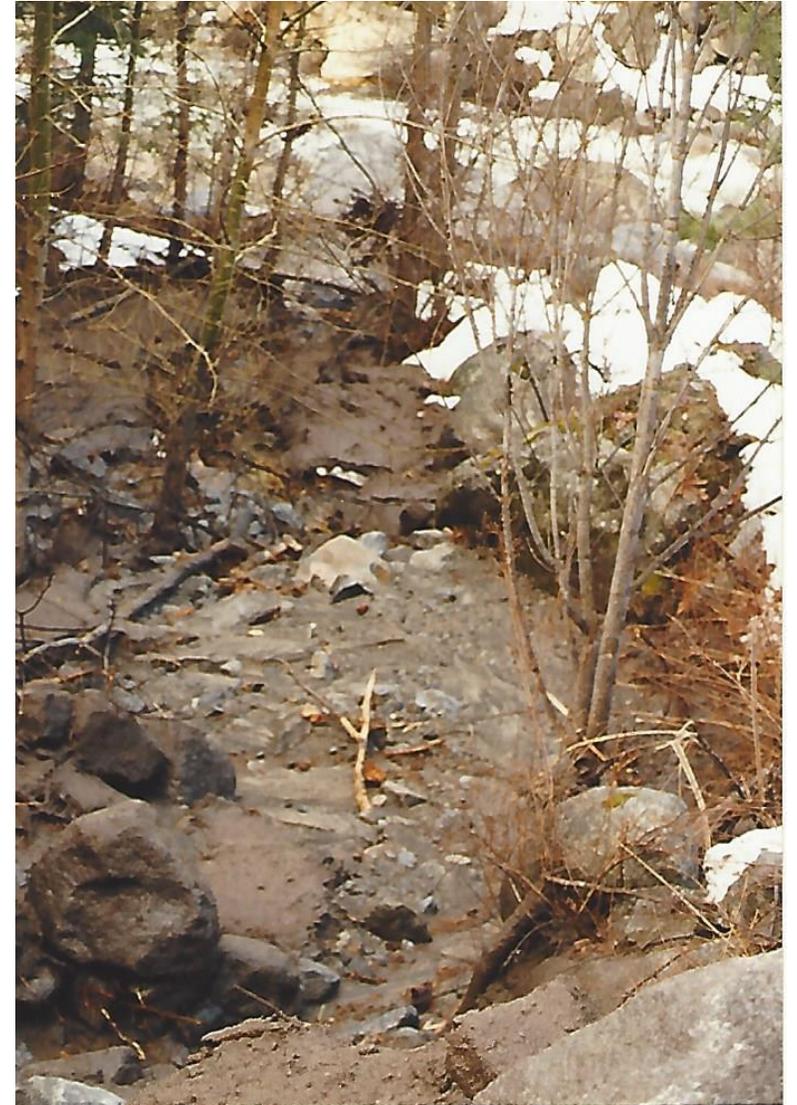
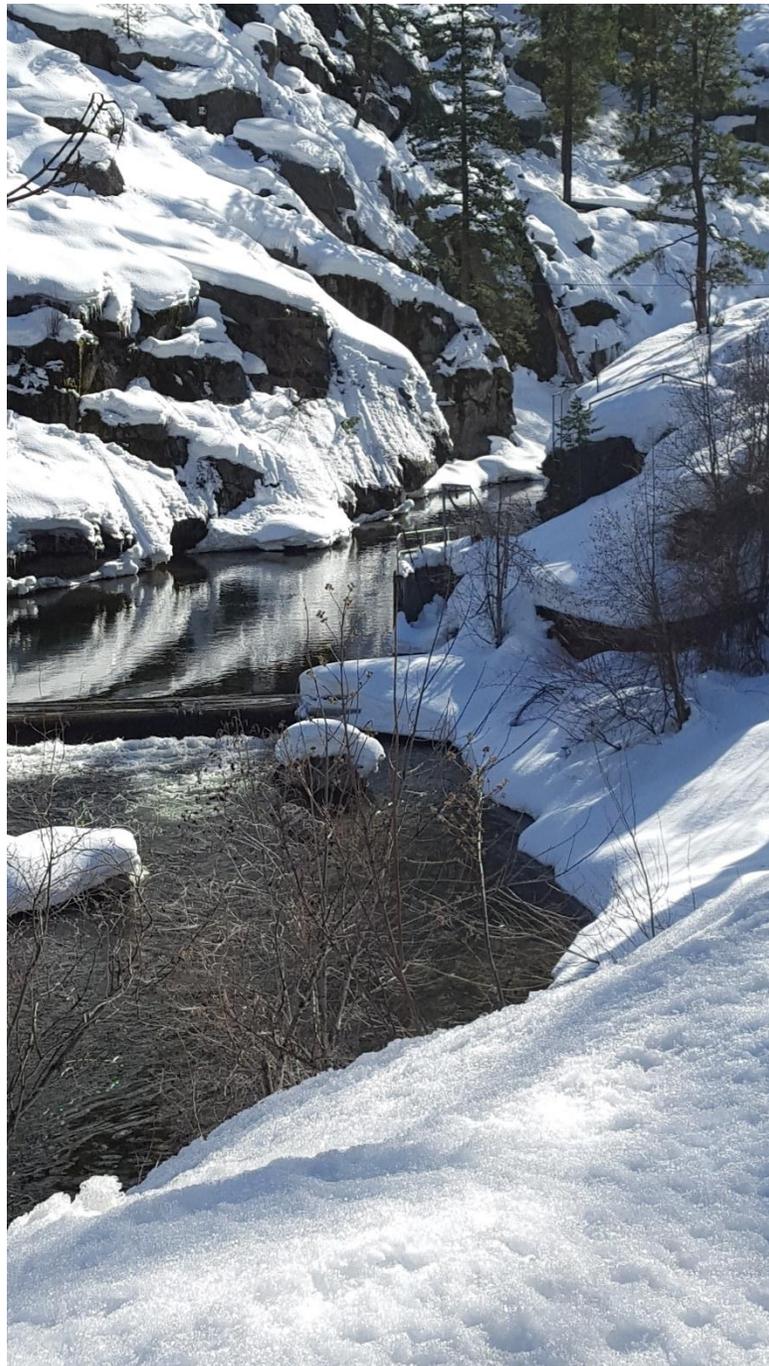


Surface water impacts

- River Water Quality
 - Microinvertebrates
 - Macroinvertebrates
 - Blue-green Algae
 - Parasites: Giardia and Cryptosporidium
 - Natural causes: floods, mudslides, etc.
- Watershed Protection Program
 - Human impact
 - Propane/gas tanks



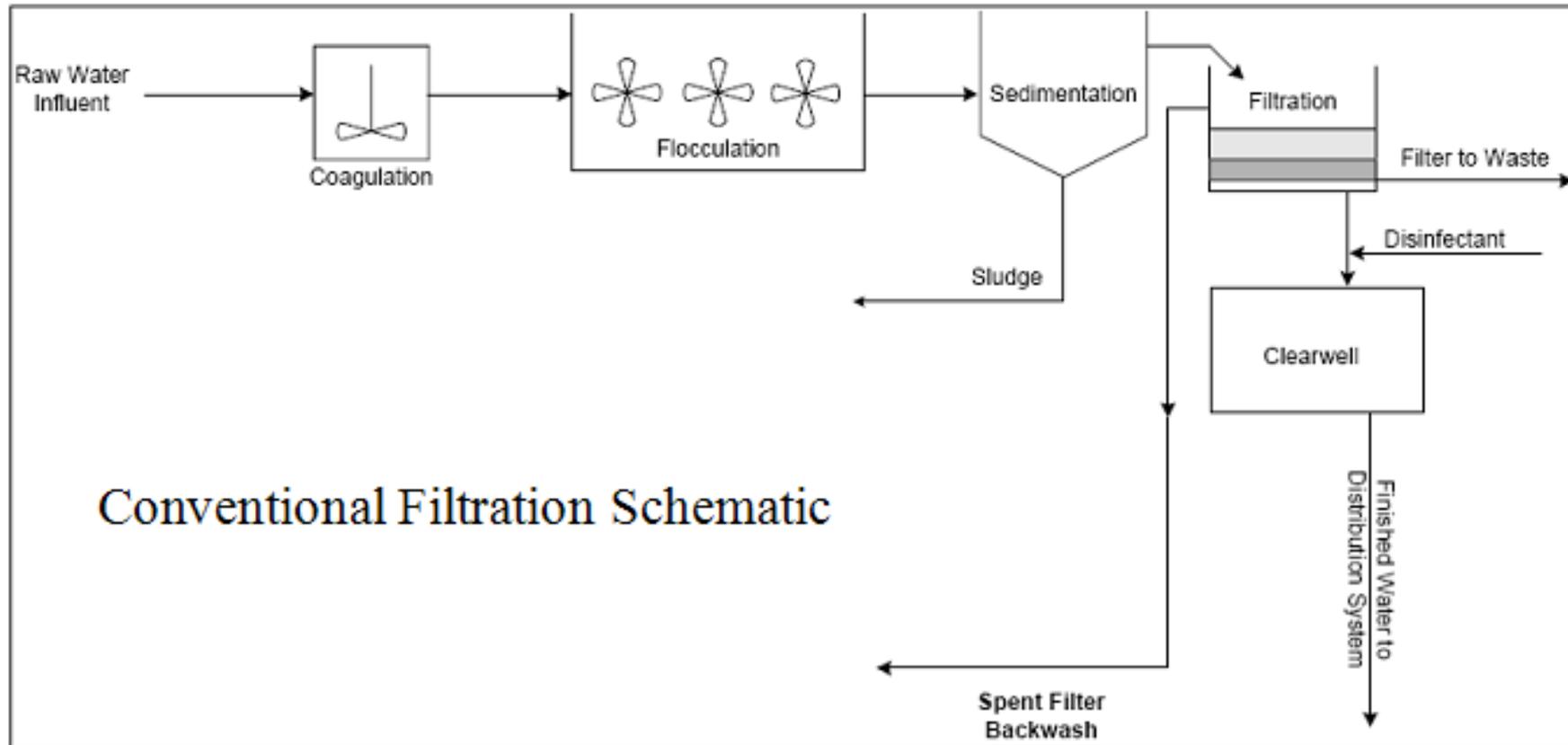
Seasonal Changes



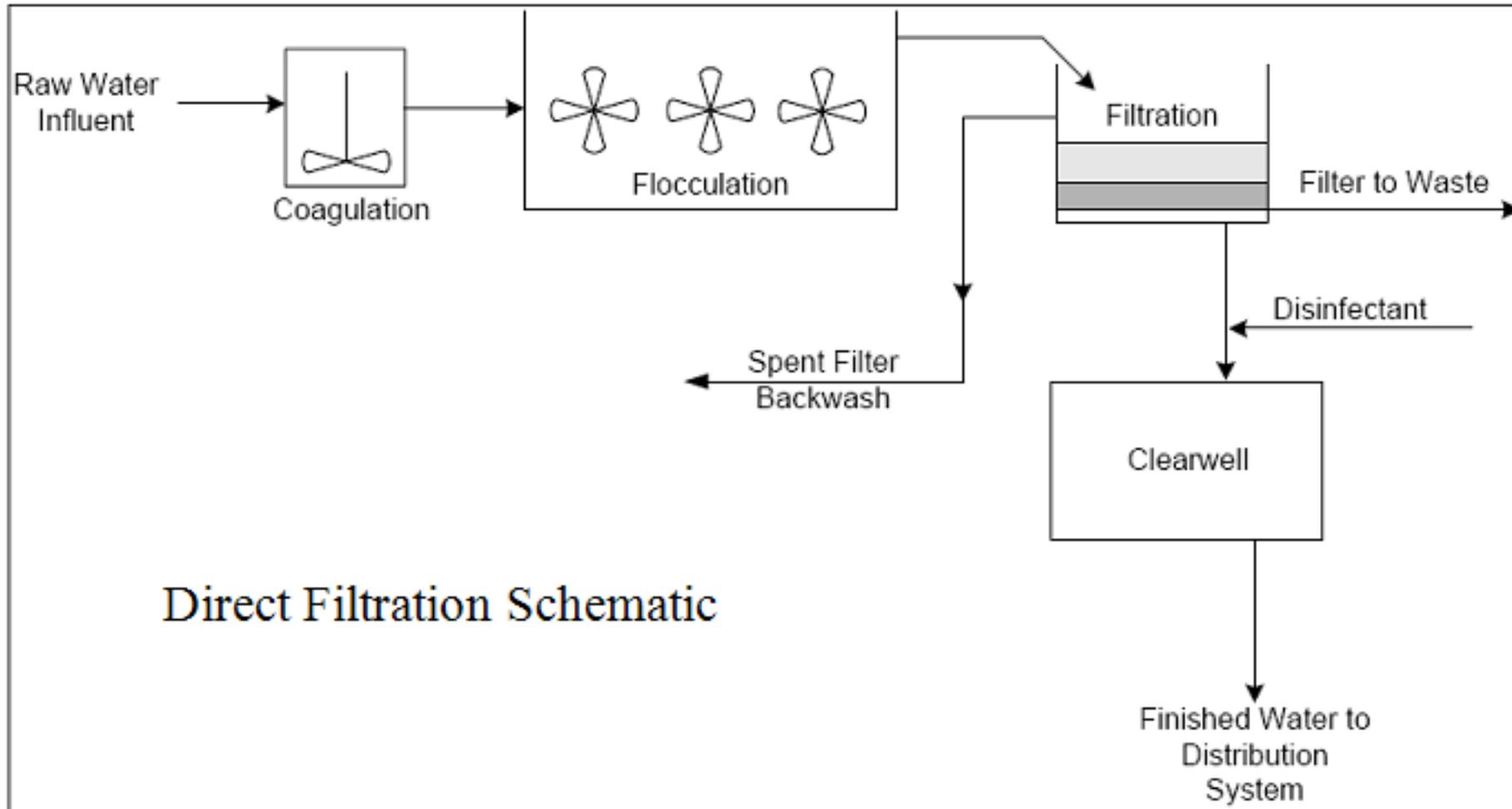
Types of Water Treatment

- Conventional Water Treatment
- Direct filtration
- Slow sand filtration
- New Technology:
 - Membrane filtration
 - Cartridge sand filtration
 - Reverse osmosis

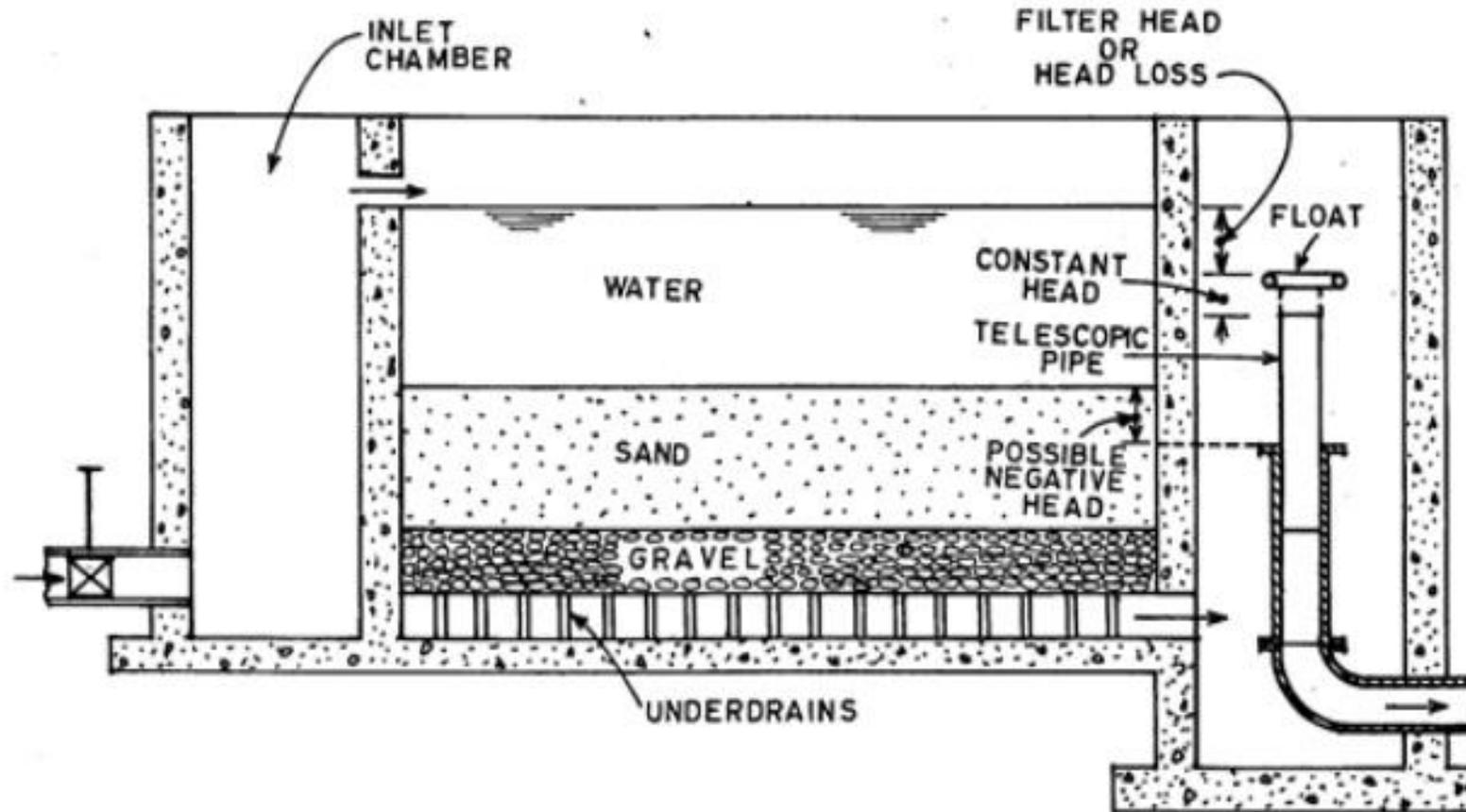
Conventional Water Treatment



Direct Filtration



Slow Sand filtration



Water Treatment Plant



Turbidity, Jar Testing, and



Disinfection
(Chlorine)

Operators Job to optimize treatment



Jar Testing course which was included in the City of Leavenworth's Bilateral Compliance Agreement with DOH

Water Treatment Plant



Chlorine Contact Chamber



