

WATER PURIFICATION

It is the process of removing undesirable chemical, biological contaminants, suspended solids and gases from contaminated water

WATER SOURCES



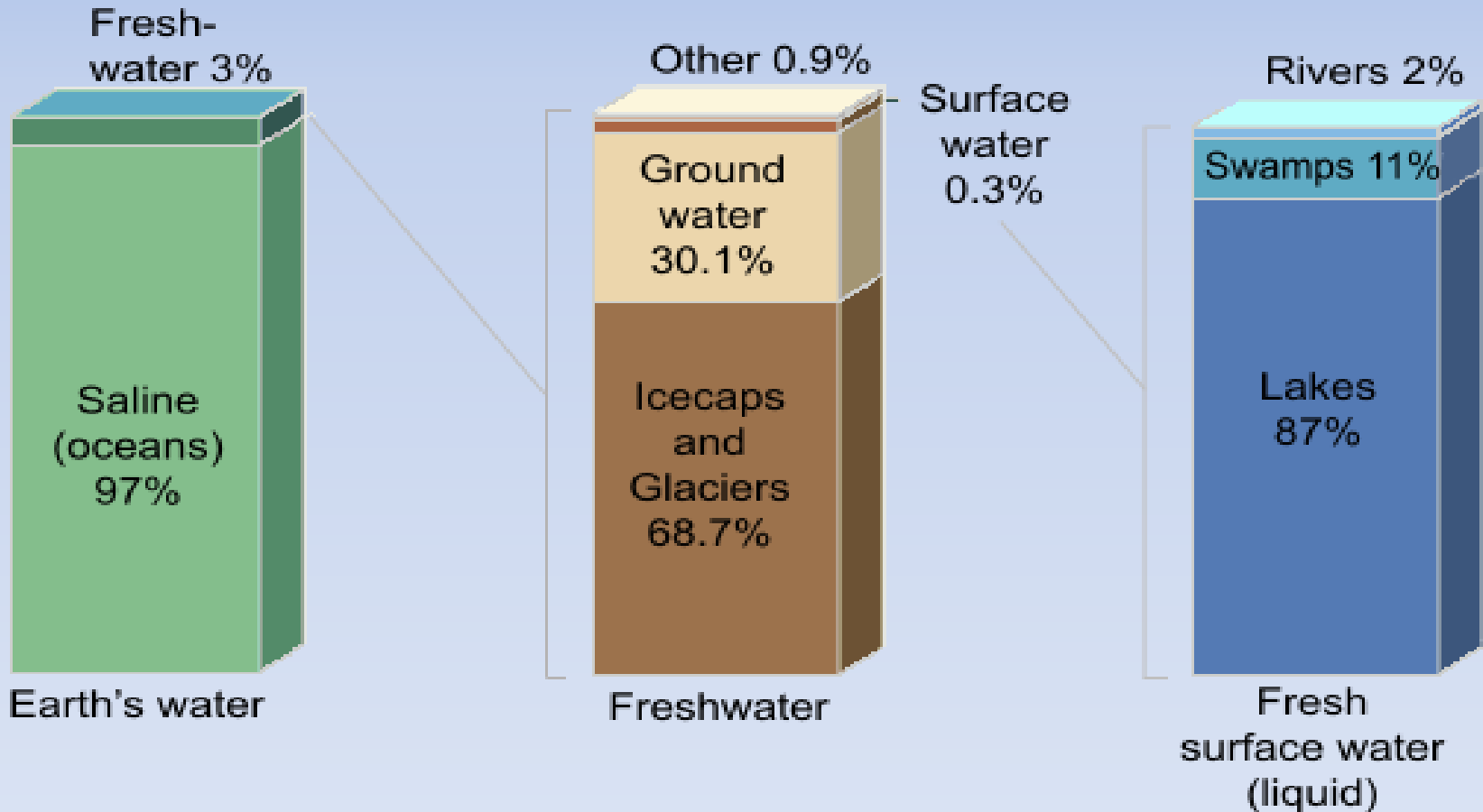
RAINWATER

SURFACE

FROZEN

UNDERGROUND

Distribution of Earth's Water



PRE-TREATMENT

Before the final treatment

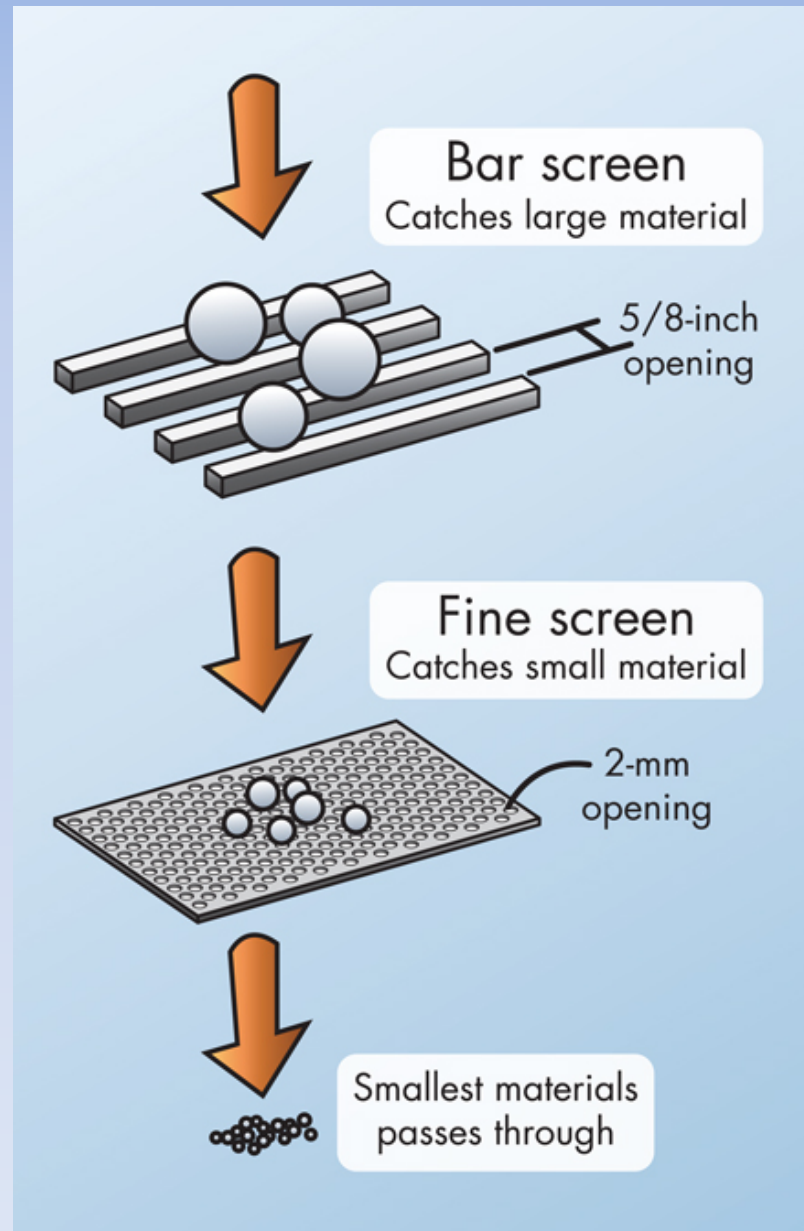
PUMPING AND CONTAINMENT

Most of the water must be pumped from its sources and channeled into pipes or holding tanks.



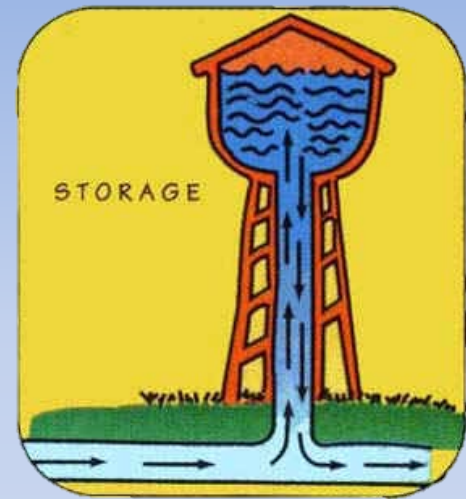
SCREENING

The first step in purifying surface water is to remove large debris such as sticks, leaves, dirt and other large particles which may interfere with the other purification steps.



STORAGE

Water from rivers may also be stored in bankside reservoirs.

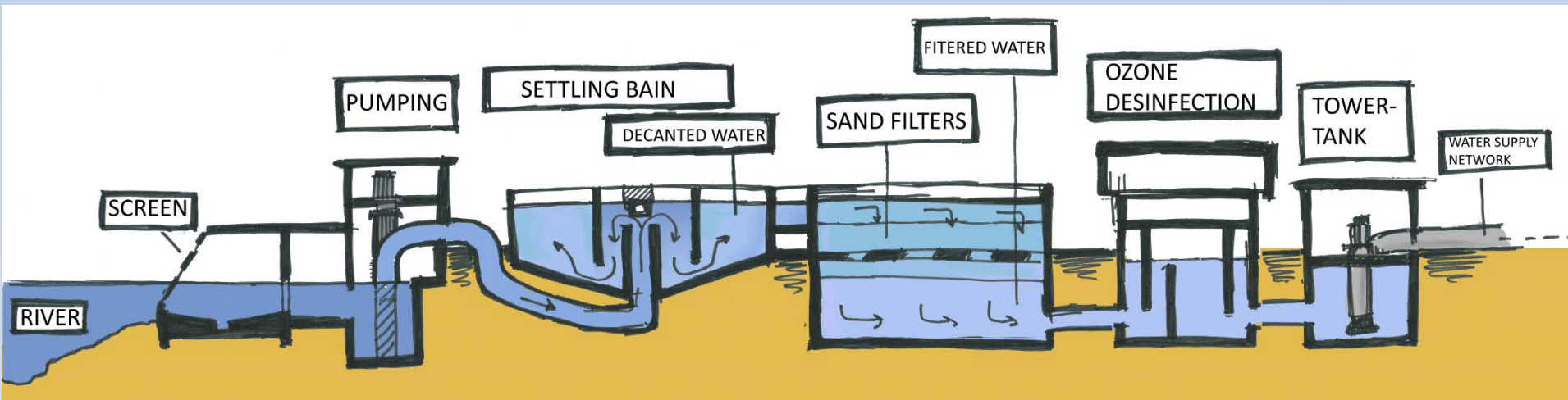


PRE- CHLORINATION

In many plants the incoming water was chlorinated to minimize the growth of fouling organisms on the pipe-work and tanks. Because of the potential adverse quality effects this has been largely discontinued.



WATER TREATMENT PLANT



SETTLING BASING (SETTLING POND-DECANT POND)

SAND FILTERS

LAST TANK

TOWER-TANK