

# **WATER PURIFICATION**

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

# WATER SOURCES



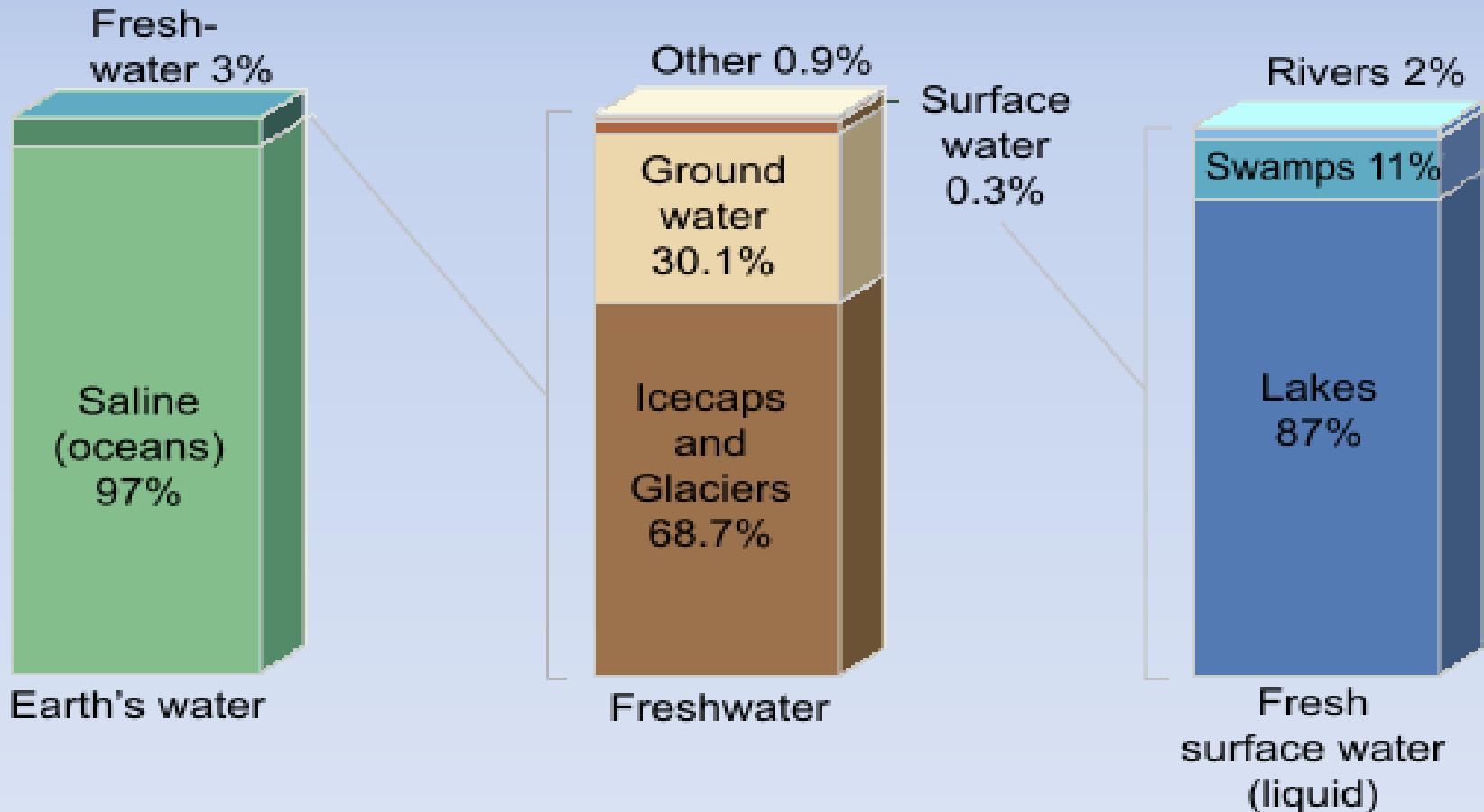
RAINWATER

SURFACE

FROZEN

UNDERGROUND

## Distribution of Earth's Water



# PRE-TREATMENT

Before the final treatment

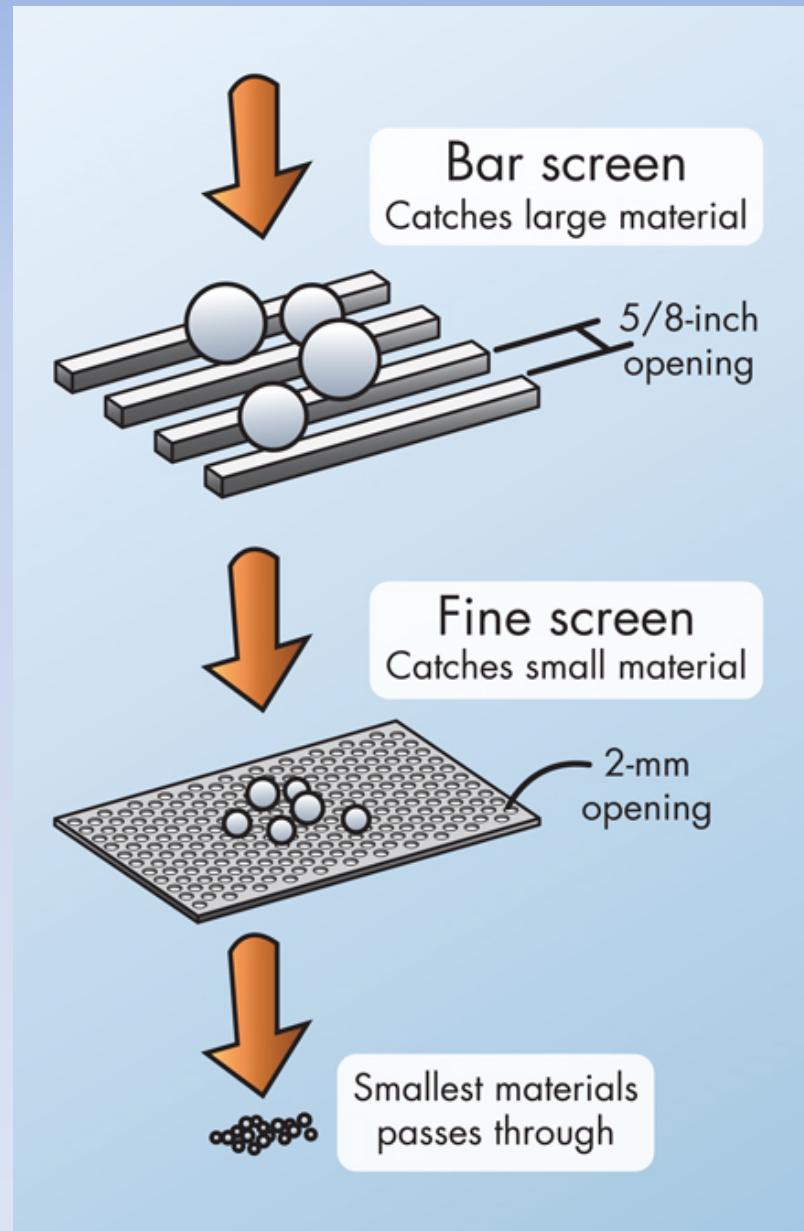
## PUMPING AND CONTAINMENT

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



# SCREENING

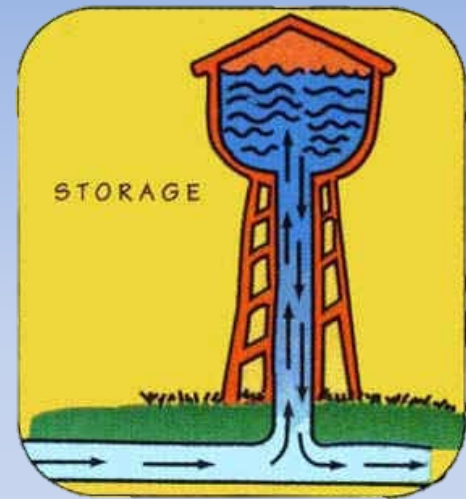
The first step in purifying surface water is to remove large debris such as sticks, leaves, dirt and other large particles which may interfere with the other purification steps.





# STORAGE

Water from rivers may also be stored in bankside reservoirs.

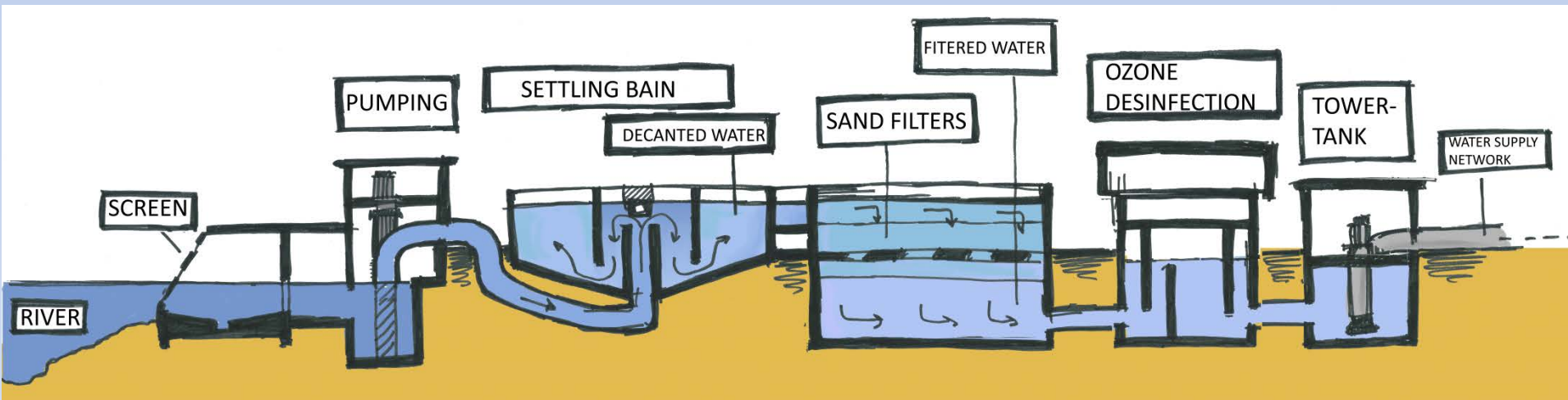


# PRE- CHLORINATION

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