

Water Supply

Özgür ZEYDAN (PhD.)
<http://cevre.beun.edu.tr/zeydan/>

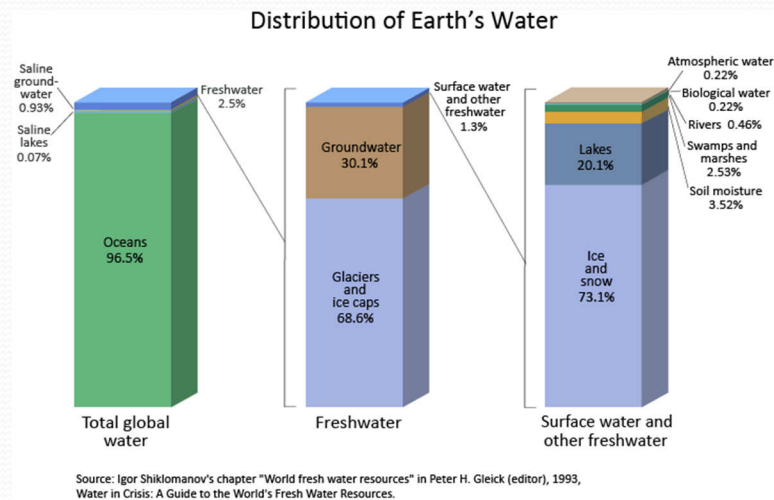
Water Supply

- The supply of purified water available to a community
- An arrangement of reservoirs, purification plant, distribution pipes, etc, for providing water to a community

<http://www.dictionary.com/browse/water-supply>



Water Resources on Earth



Water Resources

- Water supply systems get water from a variety of locations after appropriate treatment including:
 - groundwater (aquifers)
 - surface water (lakes and rivers)
 - the sea through desalination.

Water Supply System

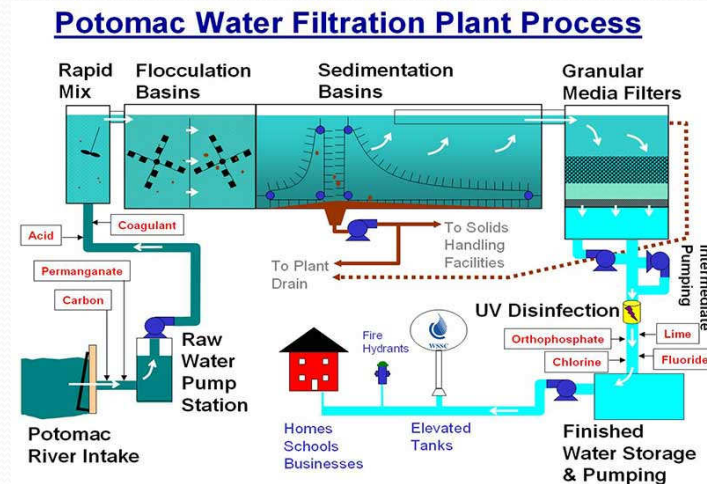
- Water supply system, infrastructure for the collection, transmission, treatment, storage, and distribution of water for homes, commercial establishments, industry, and irrigation, as well as for such public needs as firefighting and street flushing.

<https://global.britannica.com/technology/water-supply-system>

Water Treatment Plant Units

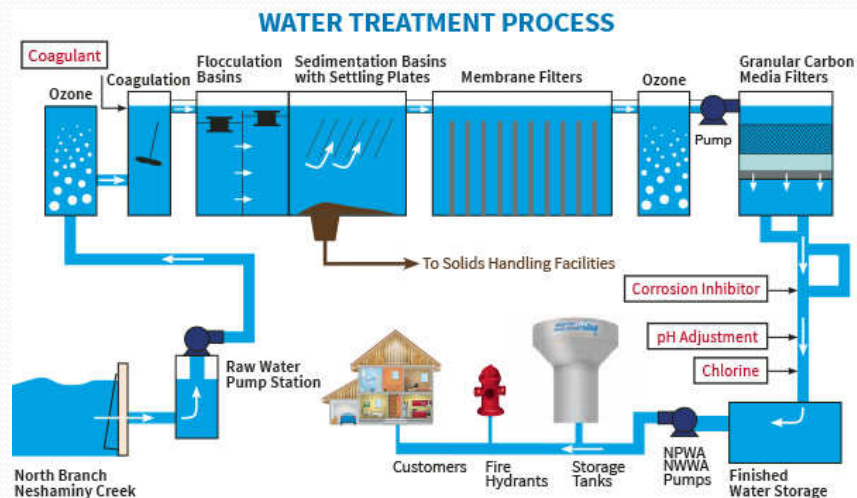
- Pre-treatment
- Coagulation
- Flocculation
- Sedimentation
- Sand filters
- Chlorination

Water Treatment Plant



<https://www.wsscwater.com/education-and-recreation/about-water/water-filtration-1.html>

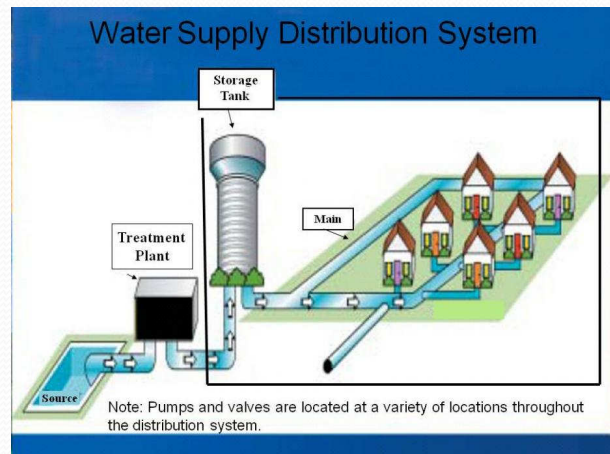
Water Treatment Plant



<http://northpennwater.org/l-162-Forest-Park-Water-Treatment-Plant>

Water Distribution Systems

- Water distribution systems consist of an interconnected series of storage facilities (tanks, water tower), pipes, pumps and valves.



<https://www.epa.gov/dwsixyearreview/drinking-water-distribution-systems>

Wastewater

- Once water is used, wastewater is typically discharged in a sewer system and treated in a sewage treatment plant before being discharged into a river, lake or the sea or reused for landscaping, irrigation or industrial use.