SOURCE TO TAP How do we make water safe to drink?

SOURCE WATER

SOURCE WATER

Water supply serving the

area. In this case, it is a

surface water supply, such

as a river, lake or stream.

WATER **FREATMENT**



COAGULATION

Coagulation uses iron or aluminum-based chemicals to form "sticky" particles that bind with dirt and organic matter in the water.

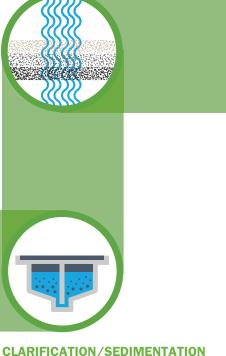


FLOCCULATION

Slow mixing is used to cause the coagulated dirt and organic particulates to collide and clump together to form larger "floc" particles that can settle out of the water during clarification/ sedimentation.

FILTRATION

The clarified water passes through filters made of layers of sand, coal, or activated carbon, which help remove smaller particles, including potentially harmful bacteria. Some plants have begun using membranes for filtration in lieu of granular media.

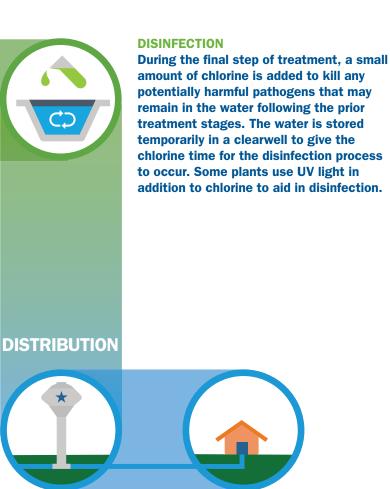


The heavy particles (floc) settle out and the clear water flows to filtration. The settled solids removed from the process often possess exceptional nutrient and water-retaining properties that allow them to be recycled and used to improve the quality of topsoils.

STORAGE

WANT TO KNOW MORE ABOUT WATER?

For more information about water and the water industryincluding fascinating facts you may not know, visit our online Learning Center at amwater.com.



Pumps are typically used to "push" the water through pipes to homes and businesses in the community. Tanks are often used to provide storage around the distribution system to help maintain pressure and enhance reliability of water service and fire protection.



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