















# Recycled and Purified Water Glossary

All water is recycled water. Nature constantly cycles water through evaporation, condensation, and filtration. Today, advanced technology mirrors these natural processes to produce safe, high-quality water. This glossary breaks down a handful of commonly used terms to help you learn about the key elements in the recycled water process.



WATER  
FOR PEOPLE<sup>SM</sup>

 <b>Advanced Oxidation Process (AOP):</b>	A chemical treatment process that uses ultraviolet light and a powerful disinfectant to eliminate organic materials from water by breaking down their molecular structure.
 <b>Advanced Water Purification:</b>	A process that uses proven technology, including membrane filtration with microfiltration or ultrafiltration, reverse osmosis, and UV disinfection/advanced oxidation, to purify recycled water into drinking water.
 <b>Advanced Water Purification Facility (AWPF):</b>	A state-of-the-art facility that purifies recycled water already cleaned at a wastewater treatment plant using advanced water purification.
 <b>Desalination:</b>	The process of removing salts and other minerals from water.
 <b>Direct Potable Reuse:</b>	When purified water is sent directly to a drinking water plant.
 <b>Environmental Buffer:</b>	A natural body of water, such as a groundwater basin or surface reservoir, where purified water is blended with existing water before being extracted for final purification into drinking water.
 <b>Groundwater Recharge:</b>	The infiltration or injection of water into a groundwater aquifer.
 <b>Indirect Potable Reuse:</b>	The process of purifying wastewater and using it to replenish environmental buffers like groundwater aquifers or surface water reservoirs.
 <b>Membrane Filtration:</b>	A type of filter with thin barriers (membranes) and microscopic pores used to separate particles from water.
 <b>Microfiltration:</b>	A low-pressure membrane filtration process that removes suspended solids, bacteria, and other materials from water.
 <b>Non-Potable Water:</b>	Water that is not suitable for drinking.
 <b>Potable Water (Drinking Water):</b>	Water that is safe for drinking.
 <b>Purified Water:</b>	Recycled water that has been treated at an Advanced Water Purification Facility, so it can be added to water supplies and used for drinking water.
 <b>Purple Pipes:</b>	Pipes that distribute non-potable municipal recycled water, distinct from pipelines that distribute drinking water.
 <b>Recycled Water:</b>	Wastewater that has undergone multiple levels of purification to make it safe for beneficial uses, like irrigation, but not drinking water.
 <b>Reverse Osmosis:</b>	A membrane filtration process that uses high-pressure to force water through several layers of plastic membranes that filter out minerals and contaminants, including salts, viruses, pesticides, and other materials.
 <b>Ultraviolet Light Disinfection and Advanced Oxidation:</b>	A purification process where water is exposed to ultraviolet (UV) light before chemicals are added to stimulate an advanced oxidation reaction, eliminating compounds in water.
 <b>Wastewater:</b>	Untreated water in the sewer system that comes from homes and businesses (bathrooms, showers, sinks, dishwashers, etc.)
 <b>Water Cycle:</b>	The movement of water within Earth as it evaporates, returns as precipitation, flows through bodies of water and then evaporates again.
 <b>Water Reuse:</b>	Using water more than once, for beneficial purposes.