

## **Water and Wastewater Operations**

When you turn on the faucet for your drinking water, have you ever wondered how the water gets to your glass? Where your water comes from? Or when you flush your toilet, do you know where the wastewater goes and how it gets there?

Each day residents walk near or drive by many facilities and structures that house and provide support to the District's water and wastewater systems. A great deal of engineering and support goes into supplying our water needs and maintaining the water and wastewater infrastructure. Like many other community entities throughout Colorado, the Stonegate Village Metropolitan District oversees the collection, storing and distributing tremendous amounts of water drinking, as well as collect, treat and process wastewater or the water we use!



The District fully understands the importance of water conservation, as well as maintaining and repurposing of our water supply. Although equipment and materials do break and fail without warning, the District is best served by planning ahead with its operations and improvements projects to meet future use and demands. You may notice many of these maintenance projects to improve our water and wastewater resources and facilities...from removing and replacing water lines and wells, upgrades to facility equipment and

infrastructures, drainage ways, holding ponds, and the wastewater treatment plant.



Pictured above, is the District's Wastewater Treatment Facility on June 15, with construction completion scheduled for October 2015.

The District's water and wastewater operations are monitored, inspected and maintained by Colorado Water Systems or CWS, the District's utility operator. CWS, is led by Gerard Whelan, and with a highly trained team of professional licensed operators, they oversee the daily operations of the water and wastewater systems and infrastructure that ties in Stonegate Village Metropolitan District as well as the neighboring districts of Lincoln Park, Compark Business Campus Metropolitan District and Dove Ridge.

CWS conducts regular inspections and testing of the District's water quality at District water and wastewater facilities, as well as at select homes throughout the District each year.



When CWS operators come to your home to test the water quality, they do not require entry to your home and will test the water from the exterior structure and plumbing fixtures. Please note that the CWS representative will always provide a courtesy notification to each resident prior to testing. CWS brings years of professional experience at overseeing complex water and wastewater resources, and its teams of operators hold some of the highest levels of certifications for operations of our water and wastewater systems. CWS is well known for providing best in class service with hands-on operations, monitoring and planning, engineering support and proactive attention to system repairs and maintenance.





So, the next time you see the white trucks and vehicles with the green CWS logo on the side, running around Stonegate or your neighborhood remember they are your District utility operators hard at work.

Do you know your water? Do you know the different types of water? Most know and understand what is potable water...which is water safe enough to be consumed (drinking water). However, there are many other types of water used and managed throughout the District and throughout Colorado. Knowing these types of water and their definitions may help you understand our water and wastewater resources, their related projects and the associated operations.

- Reclaimed water...maybe referred to as recycled water, is wastewater of some kind that is treated and processed to remove solid waste, materials and some impurities. As part of the District's water

conservation efforts reclaimed water is used in landscaping irrigation and limited watering of our parks.

- Renewable water...represents the surface water and alluvial groundwater that comes from the average annual flow of rivers and recharge of aquifers generated from precipitation.
- Wastewater...is any water that has been adversely affected in quality by human activity or influence, specifically the water we use and dispose of down our bath and kitchen drains.
- Raw water...is another term for natural water found in the environment, such as rainwater, groundwater, and water from bodies of lakes and rivers, which has not been treated for consumption.
- Effluent water...is defined as “wastewater”, treated or untreated, that flows out of a treatment plant or facility.
- WISE...is a term and acronym for Water Infrastructure and Supply Efficiency project.
- Drainage way...is a natural or man made conduit, ditch, system, or the like, that provides drainage or movement of water through or from an area.
- Alluvial well...is a well that is drilled into silt or sedimentary water deposit, from a river or lake.
- Groundwater...is water located beneath the earth’s surface in soil, spaces and in the fractures of rock formations known as aquifers beneath the surface.
- Denver Water Basin...is a geological structural basin centered in eastern Colorado, but extends into southeast Wyoming, western Nebraska, and western Kansas; which underlies the entire Denver Metropolitan area.



The Stonegate Village Metropolitan District, located in unincorporated Douglas County, Colorado, is an independent entity; a separate organization from the Stonegate Homeowners Association is responsible for four important services for residents and commercial businesses, which include Water and Wastewater, Recreational Facilities, Maintenance of Open Space & Public Landscapes and Drainage-Way Maintenance. Contact the District Manager for more information on Stonegate Village Metropolitan District, and on the many other District projects and programs supporting the community. Please visit the District website at [www.svmd.org](http://www.svmd.org) or call 303-858-9909, or mail us at Stonegate Village Metropolitan District, 7995 E. Prentice Ave, Suite 103E, Greenwood Village, CO 80111.