



CHARLOTTE WATER

Stowe Regional

Water Resource Recovery Facility

As our region continues to grow, we will need to be able to process more wastewater. The Stowe Regional Water Resource Recovery Facility will use a regional approach to wastewater treatment. This innovative facility will serve communities in northwestern Mecklenburg County and the Cities of Belmont and Mount Holly in eastern Gaston County.

REGIONAL APPROACH TO WASTEWATER MANAGEMENT

The new Stowe facility will streamline wastewater treatment services for the region by:

- Improving a long pumping system in Mecklenburg County
- Replacing two aging wastewater treatments plants in Belmont and Mount Holly
- Localizing wastewater treatment at this new state-of-the-art facility



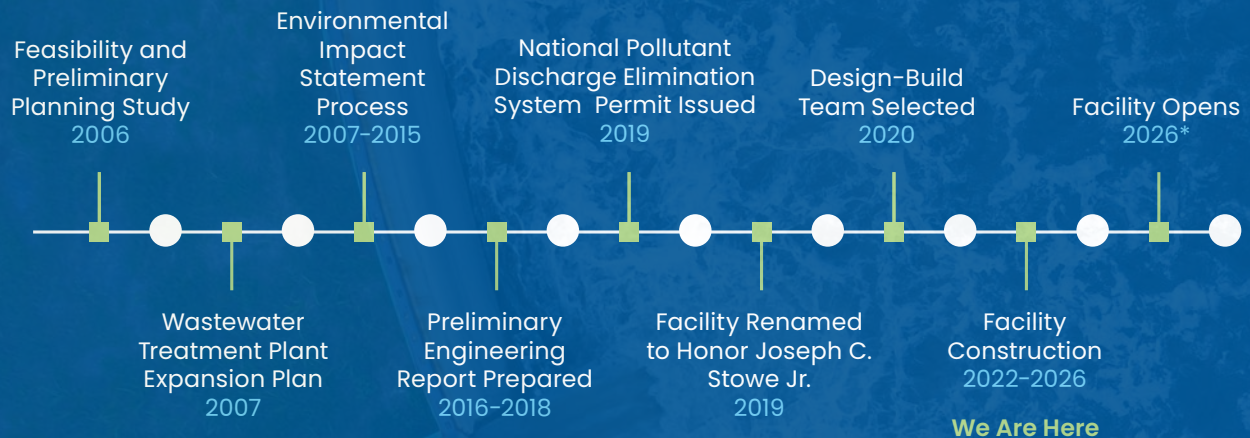
PROJECT PLANNING PROCESS

Charlotte Water partnered with other utilities and agencies to plan for the future. We studied how to manage wastewater in the region while forecasting for growth.

The results of these studies led to the Stowe Regional Water Resource Recovery Facility. The planning studies made recommendations for each component of the project.

- Charlotte Water should build a new wastewater treatment facility.
- The new facility should be located along the Catawba River near the Long Creek Pump Station.
- Charlotte Water should partner with the Cities of Belmont and Mount Holly to replace aging treatment plants with pump stations.
- Through this partnership, Charlotte Water would provide regional wastewater services for northwestern Mecklenburg County and eastern Gaston County.

PROJECT PLANNING TIMELINE



*Please note that schedules are approximate and subject to change

WHAT WOULD HAPPEN IF THIS PROJECT IS NOT BUILT?

The existing wastewater treatment plants in Mount Holly and Belmont are aging. They need major upgrades to support regional growth and new treatment regulations. These expansions and new technologies would be very costly for these cities to do alone.

Charlotte Water would have to keep pumping wastewater more than 20 miles. It currently goes from northwestern Mecklenburg County to Pineville for treatment. The underground pipes that carry this wastewater would need to be replaced.

The Stowe Project is cheaper than each of these upgrades combined. It is also less impactful to these communities during construction.

THE BENEFITS

MEETING FUTURE WASTEWATER NEEDS

Our region is growing very quickly. As more people and businesses move here, they will make more wastewater that needs to be treated. The new Stowe Regional Water Resource Recovery Facility will treat wastewater from west Mecklenburg County, Mount Holly and Belmont. With this added capacity, we will be able to manage our future wastewater treatment needs.

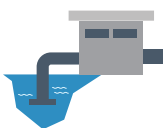
ENHANCING ENVIRONMENTAL PRACTICES



More effectively purify wastewater with innovative treatment practices. Water from the new facility will meet higher standards. This will help improve water quality in this area of the Catawba River and linked waterways.



Reduce the distance wastewater must flow for treatment. This will save energy and reduce the chance of a spill.



Reduce the number of facilities recycling treated water into the Catawba River. This will reduce impacts to wetlands and the river shoreline.



Conserve land on the 90-acre Community Benefit Project property. Future generations will be able to enjoy the natural environment.

INVESTING IN OUR COMMUNITY

Charlotte Water is planning a Community Benefit Project on the land around the new Stowe Regional Water Resource Recovery Facility. This project will be an enriching outdoor amenity for the community. We want to create a space that encourages well-being and connection.

MINIMIZING WASTEWATER PUMPING

Currently, wastewater from the Northlake Mall is pumped all the way to Pineville for treatment. Pumping wastewater 20+ miles for treatment uses a lot of energy. When you treat wastewater closer to where it is made, it saves energy and reduces the risk of a spill.

CONSOLIDATING WASTEWATER FACILITIES

We will replace existing treatment plants, one in Mount Holly and one in Belmont, with pump stations. Wastewater from these cities will be treated at the new Stowe Facility. Planning studies found that this regional collaboration will be:

cheaper • more efficient • environmentally friendly



COMMUNITY BENEFIT PROJECT

MEETING FUTURE WASTEWATER NEEDS

Before construction began, we got feedback from the community about what they want and need in this area. Then an architecture firm designed different options. The final Community Benefit Project includes:



Educational Walking Trail for hikers and cyclists will include interactive educational components!



Multi-Use Path for walking and biking along a new road and bridge over Long Creek.



Public Meeting Space for meetings, workshops, and events. The meeting room will be in the new Stowe Administration Building.



Collaborative Partnership with the CatawbaLands Conservancy. We will work together to plan future trails and trail connections.



STEM Education Program with nearby schools. We work with local teachers to help students learn about the environment, science, technology, engineering and math.

stoweregionalwrrf.com

