

23rd Avenue Reservoir Replacement

In 2022, the City of Greeley was required to take three 100-year-old treated water storage tanks at 23rd Avenue and Reservoir Road out of service. These tanks, with a combined storage capacity of 22 million gallons (MG), were used to store treated water and provide water pressure and fire flows to the east and central parts of the city. These needs are temporarily being met by the Tank #4 on the site and the Mosier Hill water tank. But this is not a long-term solution as the city develops, and there is a need to replace some of the treated water storage at the site in the near term. The Master Plan identified a need to have an ultimate storage capacity of 21 MG at the site. Tank #4 currently only provides 9-11 MG of storage.

1. Alternatives Considered: See the alternatives analysis PDF.
2. Preferred Alternative: Construction of a 7.5MG Circular Post-Tensioned Concrete Tank (alternative 4B) is considered preferred. This alternative balances meeting existing and near future system needs with cost. The upper estimate for the replacement is \$14,181,000. At this time, with the optimization of storage in Tank 4 and at Mosier Hill, the tank construction can be delayed by up to 10 years. However, in preparation for that, the site piping needs to be replaced and reorganized for future needs. The piping will be removed and replaced with new piping and configured for the addition of future storage tanks. The estimated cost for the piping upgrades and reconfiguration is \$3,500,000.
3. Any projected rate increases: Each year the department models the future 10 years of capital and operating expenses and plans out the necessary rate and other revenue needed to meet the costs. This project is included in that model and so the effect of the project on customer rates is minimal and has already been taken into account. Receiving funding through the SRF loan will reduce the cost of the capital funding for this project and ease the demand on revenue arising from it.

Construction will be occurring at the 23rd Avenue and Reservoir Road site, partially demolishing one or two of the existing tanks, removing old piping and upgrading the piping and associated infrastructure. The area is already disturbed; demolition and construction would occur on city-owned property adjacent to Centennial Park and a residential neighborhood. The environmental impact is expected to be minimal.