



The Water Infrastructure Finance and Innovation Act (WIFIA) program accelerates investment in our nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects.

## BIOLOGICAL NUTRIENT REMOVAL IMPROVEMENTS PROGRAM

**BORROWER:** City of Wichita, Kansas

**LOCATION:** Wichita, Kansas

**WIFIA LOAN AMOUNT:** \$191 million

**TOTAL WIFIA PROJECT COSTS:** \$390 million

**POPULATION SERVED BY PROJECT:** 500,000 people

**NUMBER OF JOBS CREATED:** 1,250 jobs



*Photo Credit: City of Wichita, Kansas*

### PROJECT DESCRIPTION

The City of Wichita's Biological Nutrient Removal Improvements Program will reduce its nutrient contribution to the Arkansas River and Mississippi River Basin, address local odor concerns, and help meet future regulatory requirements. With this WIFIA loan, the City of Wichita will modernize its wastewater treatment facility to improve its reliability and resiliency. The City will construct a biological nutrient reduction facility that will reduce nutrient concentrations in wastewater discharge by 70-80%. Additionally, implementation of odor controls at a pump station and its wastewater treatment facility will benefit surrounding communities, including those with environmental justice concerns. The City will also increase the volume of treated wastewater available to local manufacturers for industrial reuse, reducing their potable water demand. This program supports compliance with future regulatory requirements and aligns with regional and national water quality objectives, including the Kansas Nutrient Reduction strategy and nutrient reduction in the Gulf Hypoxia zone.

### PROJECT BENEFITS

- Improves water quality in the Mississippi River Basin by reducing nutrient concentration in wastewater discharge.
- Enhances the resilience of the City of Wichita's wastewater treatment facilities.
- Improves odor control to benefit the community surrounding the wastewater treatment facilities.
- Saves the City of Wichita, Kansas approximately \$89 million by financing with a WIFIA loan.