

## WWTP UPGRADE

**STATE PROGRAM:** Wisconsin Department of Natural Resources

**ASSISTANCE RECIPIENT:** Bluffview Sanitary District

**ASSISTANCE AMOUNT:** \$2.3M



### PROJECT DESCRIPTION

The Bluffview Wastewater Treatment Facility, located in south central Wisconsin, was built to treat wastewater from the Badger Army Ammunition Plant. This military industrial installation was constructed in 1942 to support efforts in World War II and later the Korean War and Vietnam War. Original housing built for the Army has been converted to multi-unit housing for the community and now has a population of approximately 700 people. The Bluffview Sanitary District provides wastewater service for this community, which has a low median household income. In 2016, the Army transferred ownership of the treatment facility to the Bluffview Sanitary District. At the time of property transfer, the facility was not able to meet the discharge permit limitations for total nitrogen. In order to meet the total nitrogen limit, the District implemented a \$4.3 million facility upgrade. The District qualified for hardship assistance and received \$2.3 million in CWSRF loan forgiveness and received a Community Development Block Grant for \$500,000 to make the project affordable for its users. Facility upgrades included the construction of a moving bed biofilm reactor, a groundwater disposal system, a pressure distribution drain field system, an effluent pump station, a potable well, and additional improvements. The treated effluent is now discharged to a newly installed groundwater distribution system with groundwater monitoring wells. These upgrades will produce a cleaner effluent and enable the plant to meet the groundwater total nitrogen limit.

To read more about this case study, please visit <https://www.epa.gov/system/files/documents/2022-02/2021-pisces-compendium.pdf>.