

## **18-702-31, Furnish, Deliver, and Install Disc Filters at the Egan Water Reclamation Plant**

Construction Contract 18-702-31, Furnish, Deliver, and Install Disc Filters at the Egan Water Reclamation Plant, is being financed by the Clean Water State Revolving Fund (SRF), SRF Loan No. L175569. The SRF program is administered by the Illinois Environmental Protection Agency and receives a portion of its money to fund these types of projects from the U.S. Environmental Protection Agency. SRF programs operate in each state to provide communities the resources necessary to build, maintain, and improve the infrastructure that protects one of our most valuable resources: water.

**Service Area:** North

**Location:** Egan WRP, 550 S. Meacham Road, Schaumburg, IL 60193

**Engineering Consultant:** In-house Design

**General Contractor:** Independent Mechanical Industries, Inc.

**Contract Award Amount:** \$8,895,000.00

**Award Date:** March 3, 2022

**Contract Duration:** 720 Calendar Days

**Project Description:** The purpose of this project is to replace three pairs of tertiary sand filter beds with six (6) disc filters at the Filter Building of the Egan WRP. The upgrades will occur at Filter Beds 1, 2 and 6.

**Project Justification:** The designed maximum capacity of the secondary treatment is 60 million gallons per day (MGD). The maximum tertiary capacity is 44 MGD. During a backwash cycle the total tertiary capacity would drop to 34 MGD. The Egan WRP has six pairs of filter beds. Installing disc filters in Filter Beds 1, 2, and 6 can increase filtering capacity from 34 to 60 MGD with no loss in capacity during a backwash cycle. The disc filters will reduce the filter backwash from eight percent to less than five percent. The enclosed disc filters will also reduce the presence of midge flies in the filter building.

