

21-091-3P, Phosphorus Removal Modifications at Battery D, O'Brien WRP

Construction Contract 21-091-3P, Phosphorus Removal Modifications at Battery D, O'Brien Water Reclamation Plant, is being financed by the Clean Water State Revolving Fund (SRF), SRF Loan No. L175165. 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: O'Brien WRP, 3500 W. Howard Street, Skokie, IL 60076

Engineering Consultant: AECOM

General Contractor: IHC Construction Companies. LLC

Contract Award Amount: \$14,850,000.00

Award Date: June 15, 2023

Contract Duration: 548 Calendar Days

Project Description: The scope of the project includes installing systems to convey return activated sludge (RAS) from RAS channels to the RAS fermentation tank (Tank 1 in Battery D), including pumps with variable frequency drives, valves, and piping, as necessary; and to convey RAS from the RAS fermentation tank back to the influent channel of each battery, including piping and pumps. Mixers in each pass of the RAS fermentation tank will also be installed.

Project Justification: The project includes modifications to an aeration tank in Battery D to allow for sidestream enhanced biological phosphorus removal (S2EBPR), which will be used to meet upcoming phosphorus removal requirements per the National Pollutant Discharge Elimination System (NPDES) permit for O'Brien WRP.

