Aeration Tanks Air Valves Automation in Batteries A, B, C, and D, SWRP

Project Number: 15-122-3P

Service Area: Stickney

Location: Stickney WRP

Engineering Consultant: In-house design

General Contractor: To be determined

Estimated Construction Cost: $10,000,000

Contract Award Date: December 2016*

Substantial Completion Date: December 2018*

Project Description: This project will replace the existing manually operated angle globe valves with automated valves on the first seven drop locations of pass one in each aeration tank. The associated air drop piping will also be modified as necessary. The work includes aeration tanks in Batteries A, B, C, and D with the exception of tanks D-7 and D-8, which have been modified under a different contract.

Project Justification: The District has implemented enhanced biological phosphorus removal at the Stickney WRP. Better process control is needed in the first pass, which will include an anaerobic zone and a swing zone. Periodic mixing of the anaerobic zone is necessary for volatile fatty acid release from in-line fermentation. Automation of these air valves will allow for periodic mixing as well as adjusting the length of the anaerobic zone based on flow and other operating conditions.

Project Status: This project is being designed.

*Information shown is estimated.