

15-120-3P Conversion of Old GCTs to the WASSTRIP® Process, SWRP

Construction of 15-120-3P Conversion of Old GCTs to the WASSTRIP® Process, SWRP is being financed by the Clean Water State Revolving Fund (SRF). 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: Stickney

Location: Stickney Water Reclamation Plant

Engineering Consultant: In-house Design

General Contractor: Morrison Construction Company, Inc.

Contract Award Amount: \$5,223,243.00

Award Date: May 19, 2016

Contract Duration: 550 Calendar Days

Project Description: The remaining old gravity concentration tanks (GCTs) will be converted to the Waste Activated Sludge Stripping to Remove Internal Phosphorus (WASSTRIP®) process to aid in the release of phosphorus which will be recovered from the pre-digestion centrate by the existing Ostara process.

Project Justification: The WASSTRIP® process will increase the quantity of phosphorus that will be recovered by the Ostara facility. This enhances the District's strategic plan toward sustainability and resource recovery. Additional benefits of this process will be the reduction of struvite formation in the digesters and post centrate piping as well as improving the dewaterability of our biosolids. The fermentation of primary sludge will create additional volatile fatty acids necessary for a more stable operation of the enhanced biological phosphorus removal treatment process.

