

Calumet TARP Screens, CWRP

Project Number: 13-246-3M

Service Area: Calumet

Location: Calumet WRP

Engineering Consultant: Rubinos & Mesia Engineers, Inc.

General Contractor: To be determined

Estimated Construction Cost: \$9,800,000

Contract Award Date: December 18, 2014*

Substantial Completion Date: December 18, 2018*



Project Description: The purpose of this project is to replace the existing bar screens, which are located upstream of the Tunnel and Reservoir Plan (TARP) pumping station, approximately 350 feet below ground with new screens which will be mechanically cleaned. The cleaning mechanism will be rail mounted at ground level and have a gripper which will travel down the shaft and remove the screenings from the bar screens, returning them to the surface for disposal. The work will be performed in conjunction with Contract 06-212-3M, Calumet TARP Pump Station Improvements.

Project Justification: This project will restore dependability of equipment to the Calumet TARP Pump Station, which is increasing in importance as the Thornton Reservoir is nearing completion. Even with the addition of the screen cleaning mechanism, there will be a decrease in maintenance costs for the screens due to the elimination of the manual cleaning operation. However, there will be an increase in energy costs. The mechanism will provide more frequent cleanings and a safer operation, as workers will no longer need to be lowered into the Wet Shaft via man basket in order to manually clean the screens.

Project Status: Project is being designed.

*Information shown is estimated.