



Project Update: Effluent Disc Filter

OVERVIEW

Heart of the Valley Metropolitan Sewerage District (HOVMSD) has a [NPDES](#) discharge permit that sets limits on the amount of both suspended solids and phosphorus that can be discharged to the Fox River. In order to achieve compliance with its phosphorus and suspended solids Total Maximum Daily Load (TMDL) allocations, HOVMSD determined that additional treatment would be necessary.

The installation of an additional effluent disc filtration step as a tertiary level of treatment will enable the District to meet its permit requirements. The effluent disc filters are being installed in an existing building on the HOVMSD campus.

WORK COMPLETED TO DATE

2021

- Project designed (preliminary and final)
- Clean Water Fund Program (CWFP) loan application submitted

2022

- CWFP loan closed
- Prepared and reviewed bidding documents
- Public bidding process completed and contract awarded
- Construction began in existing building to accommodate new filter system

2023

- Upgrades/replacement of air handling equipment
- Enhancements made to disinfection system to meet code requirements
- Converted space for women’s locker room and rest room
- Filters arrived from Sweden and are placed in building
- Concrete and structural work winds down

WORK UNDERWAY OR TO BE COMPLETED

2023

- Replacement of roof
- Mechanical and electrical work ramps up
- Integration of Effluent Disc Filters with supervisory control and data acquisition (SCADA) system
- Filter start up, training and performance testing takes place (anticipated by end of 2023)



*Please note, the project timelines are subject to changed based on weather-related delays or other unforeseen circumstances.

The Heart of the Valley Metropolitan Sewerage District was established in 1974 to provide cost-effective wastewater collection and treatment for its member communities while protecting public health, safety and the quality of the environment. Member communities include the city of Kaukauna, the villages of Little Chute, Kimberly and Combined Locks, and the Darboy Sanitary District.