

# Pilot Testing for Tertiary Treatment

## 100 MGD High Rate Treatment Facility

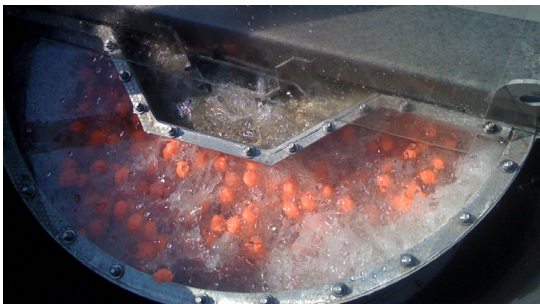


**CASE STUDY**

### Springfield, OH Tertiary Filter, HR Bio 100 - MGD Pilot Treatment System

Operation since September 2010

WWETCO is conducting pilot testing in Springfield, Ohio, to confirm the design of a 100 MGD high rate treatment facility using an 11-cell WWETCO FlexFilter™ matrix. Performance testing has demonstrated:



- The 11-cell filter matrix will be adequate to treat the 100 MGD design conditions.
- Average TSS performance of 84% removal and effluent <30 mg/L.

- Average BOD5 performance of 54% removal and effluent <30 mg/L.
- No impact to performance due to freezing weather conditions.
- Evaluate high-rate biological treatment using the WWETCO FlexFilter to treat a mixture of biological solids and influent wastewater to improve the removal of BOD5 through adsorption and separation.
- Evaluate tertiary filtration with and without metal salt addition to assess efficiency of phosphorous removal as the primary nutrient reduction process as well as a polishing process.

The pilot testing has confirmed the process design criteria established during preliminary design. New structures and equipment will be added for excess flow interception and screening, compressible media filtration, hypochlorite disinfection, bisulfate dechlorination, and effluent pumping. Construction of the new facilities is expected to be completed in 2014.

*The pilot testing has confirmed the process design criteria established during preliminary design.*



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