

SYSTEM CASE STUDY: Technic – Rhode Island



FAST FACTS

Project:

- ✓ microPULSE Microfiltration (MF) Membrane System

Industry:

- ✓ Manufacturing

Application:

- ✓ Silver Precipitation & Recovery
- ✓ Pretreatment

bioFLOW MBR System

Benefits/Highlights:

- ◆ Efficient chemical resistance
- ◆ Fully automated process
- ◆ Positive barrier retention of TSS
- ◆ Back-pulsing capabilities
- ◆ Capable of aggressive membrane cleaning
- ◆ Easy to operate and maintain

Problem:

Technic manufacturing company was generating high concentrations of dissolved silver in their process wastewater. Additionally, the effluent discharge levels were not meeting their municipal pretreatment discharge permit requirements.

Solution:

bioprocessH2O provided a microPULSE Microfiltration (MF) system designed for filtration of silver precipitants from the wastewater. The MF Membrane filtration system was selected to separate and concentrate silver from the water, remove solids and meet the effluent discharge requirements.

Status/Results:

bioprocessH2O's microPULSE MF System allows Technic to remove and dewater the silver from the wastewater stream and provide a high-quality feed to a reverse osmosis system for water reuse.

System Design Criteria:

Parameter	Influent	Effluent
Wastewater Flow	150 GPM	-
TSS	500 mg/L	<1 mg/L
Silver	40 mg/L	<0.01 mg/L

Contact *bioprocessH2O* today!

