

# CASE STUDY

## MRI Inclined Plate Settlers

Muskegon, Michigan



### City of Muskegon Water Filtration Plant

**Location:** Muskegon, Michigan

**Plant Type:** Municipal water treatment

**Product Installed:** MRI Inclined Plate Settlers

**Year Installed:** 2006

**Design Flow Rate:** 20 MGD/basin

**Basin Size:** 86' x 50' x 17.33'

**Loading Rate:** 0.24 GPM/ft<sup>2</sup>

**Residence Time:** 40 minutes

**Effluent Turbidity:** 0.2 NTU

**Raw Water Source:** Reservoir

**Normal Turbidity:** 2-4 NTU (raw water) / 0.2 NTU (effluent off plates)

**Highest Turbidity:** 50 NTU (raw water) / <1 NTU (effluent off plates)

**Coagulant:** Alum



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