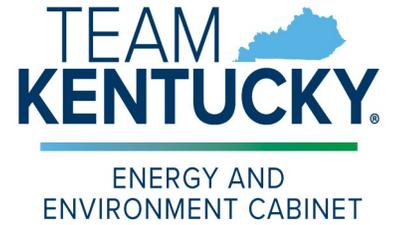




MICROBIAL (TURBIDITY) AREA-WIDE OPTIMIZATION PROGRAM



MICROBIAL AWOP CERTIFICATION CRITERIA:

- ◆ Meet all Microbial Optimization Goals for the calendar year
- ◆ No turbidity violations for the calendar year

GOLD SEAL RECOGNITION:

- ◆ Meet all goals in 100% of readings

MICROBIAL AWOP CHAMPION AWARD CRITERIA:

- ◆ No SDWA violations (M/R or TT) for the 3 year evaluation timeframe
- ◆ Meet Microbial optimization criteria for 3 consecutive years
- ◆ No exclusion of systems based on prior receipt of the Microbial Champion Award

For a water system to be recognized, the system must:

- 1) Submit a letter of commitment outlining system goals to Drinking Water Technical Assistance (DWTA) and post system goals at the facility.
- 2) Fill out the MOR AWOP page or complete the Turbidity Optimization Spreadsheet and submit electronically to the appropriate DWTA contact.

Microbial Optimization Goals

Parameter	Goal
Settled Water Turbidity*	≤2.0 NTU 95% of readings if raw water annual average is >10 NTU
	≤1.0 NTU 95% of readings if raw water annual average is ≤10 NTU
Individual Filter Effluent Turbidity	≤0.10 NTU in 95% of readings
Combined Filter Effluent Turbidity	≤0.10 NTU in 95% of readings

GUIDELINES:

- ◆ Optimization is based on the daily maximum values recorded for all readings.
- ◆ Record maximum daily raw water turbidity.
- ◆ Record individual sedimentation basin effluent turbidity readings at least every 4 hours and report the daily maximum.
- ◆ Monitor individual and combined filter effluent on-line continuously and report the daily maximum.
- ◆ Post Backwash for Individual Filters:
 - ◆ With Filter-to-Waste: Return filter to service at ≤ 0.10 NTU
 - ◆ Without Filter-to-Waste: Maximum effluent ≤ 0.30 NTU and achieve ≤ 0.10 NTU within 15 minutes

*An alternative settled water turbidity goal may be assigned based on design criteria.

SPECIAL POINTS OF INTEREST:

- ◆ Optimization strives for excellence beyond regulatory requirements
- ◆ Optimization provides a safety factor for achieving compliance
- ◆ Optimization provides increased public health protection
- ◆ Optimization focuses on improving operation of existing facilities without making expensive capital improvements

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