



"Wastewater Process Control Optimization & Troubleshooting" Online Workshop

March 16th, 2023

Live Online

Instructor: Ryan Hennessy

Agenda

Time	Material Covered
12:00 - 2:00	Common Problems and Potential Solutions: Biological Wastewater Treatment Processes:
	Filamentous bulking and floc structure characteristics
	Slime bulking
	Pin floc
	Denitrification
	Dispersed growth
	Limited nutrients
	Foaming
	Inhibition / Toxicity
2:00 - 2:15	Break
2:15 - 3:15	DNA Usage and Application in Biological Wastewater Treatment:
	Genotype versus phenotype
	Notable limitations of microscopy
	Notable limitations of DNA sequencing (16S rRNA)
	qPCR testing functionality
	Personal applications and thoughts
03:15 PM	Adjourn

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Attendance was monitored by instructor using visual presence, voice Q&A, polls, and surveys. Supporting documentation is available upon request.