

UMassAmherst  
The Commonwealth's Flagship Campus

# The Current State of Automation and Controls at New England WRRFs

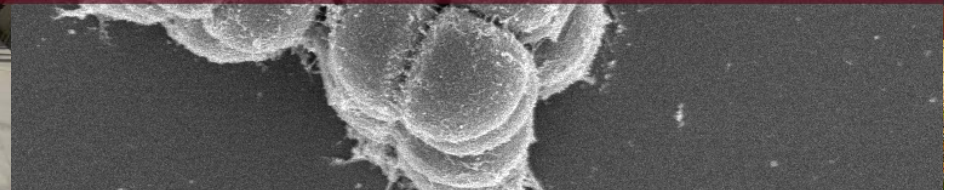
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# Acknowledgements



# Takeaway Message

**Wide range of effective instrumentation, automation, and controls.**

**Data can supplement highly skilled operators for improved decision making.**

# Focus On Secondary and Tertiary Processes

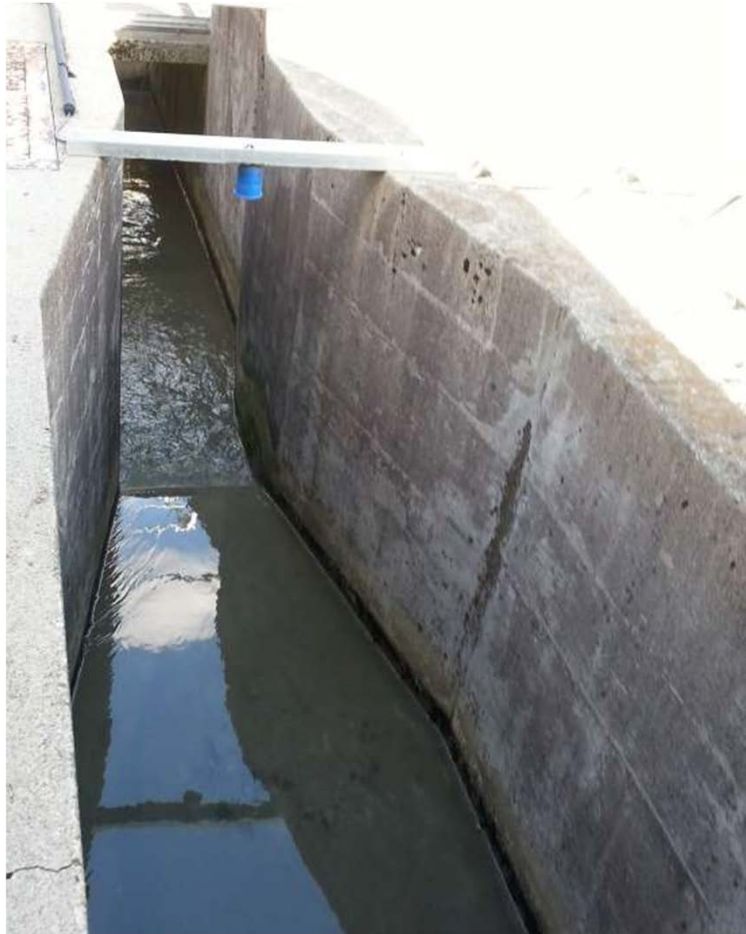




# Why Talk About Instrumentation, Automation, and Controls?



# Wide Range of Instrumentation



North Brookfield, MA

Effluent Flow

# Wide Range of Instrumentation

DO

Nitrate

Ammonia

Phosphate

pH

Solids

etc.





# Why Such a Discrepancy?





# Case Study #1 – Billerica



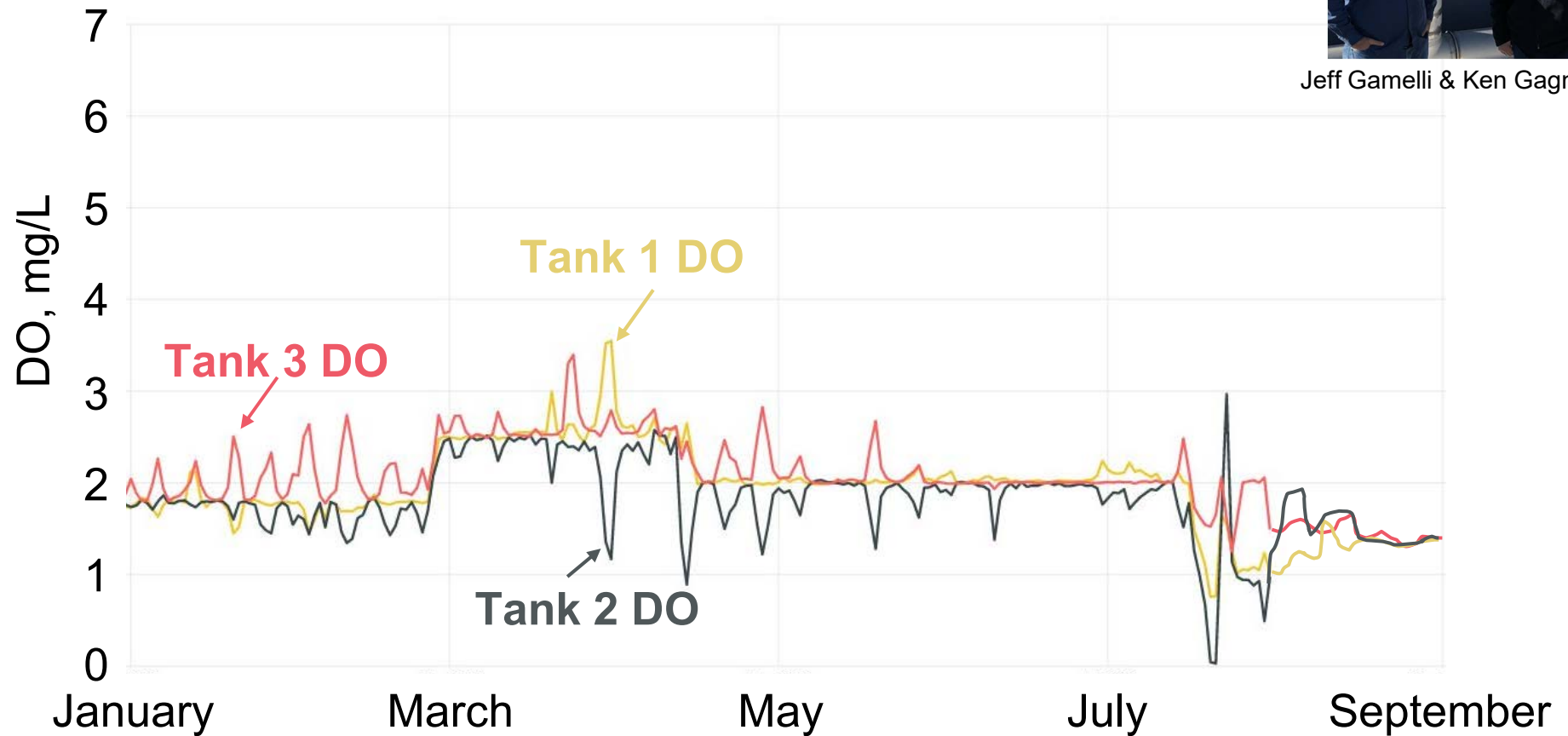
# Case Study #1 – Billerica



# Case Study #2 – Westfield

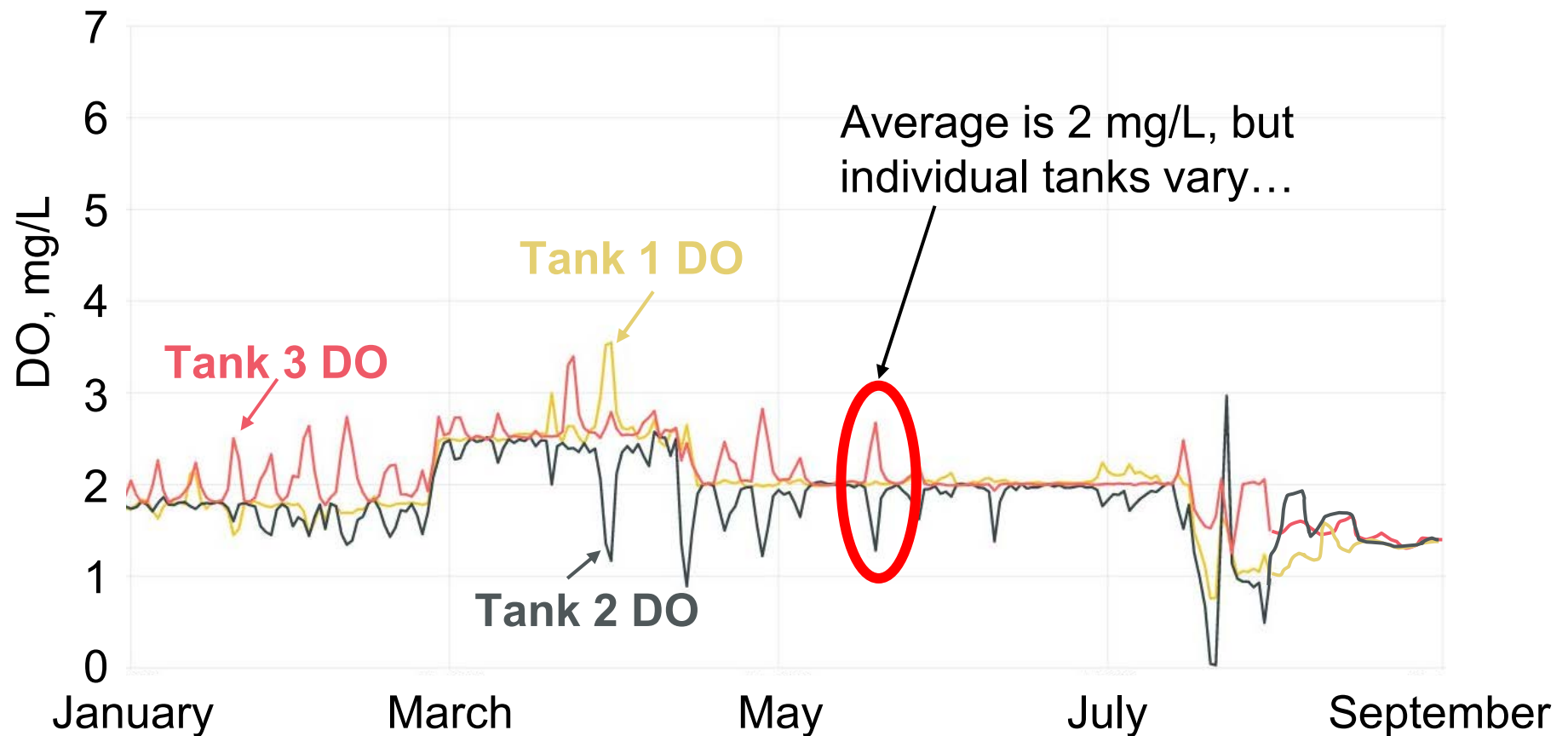


Jeff Gamelli & Ken Gagnon

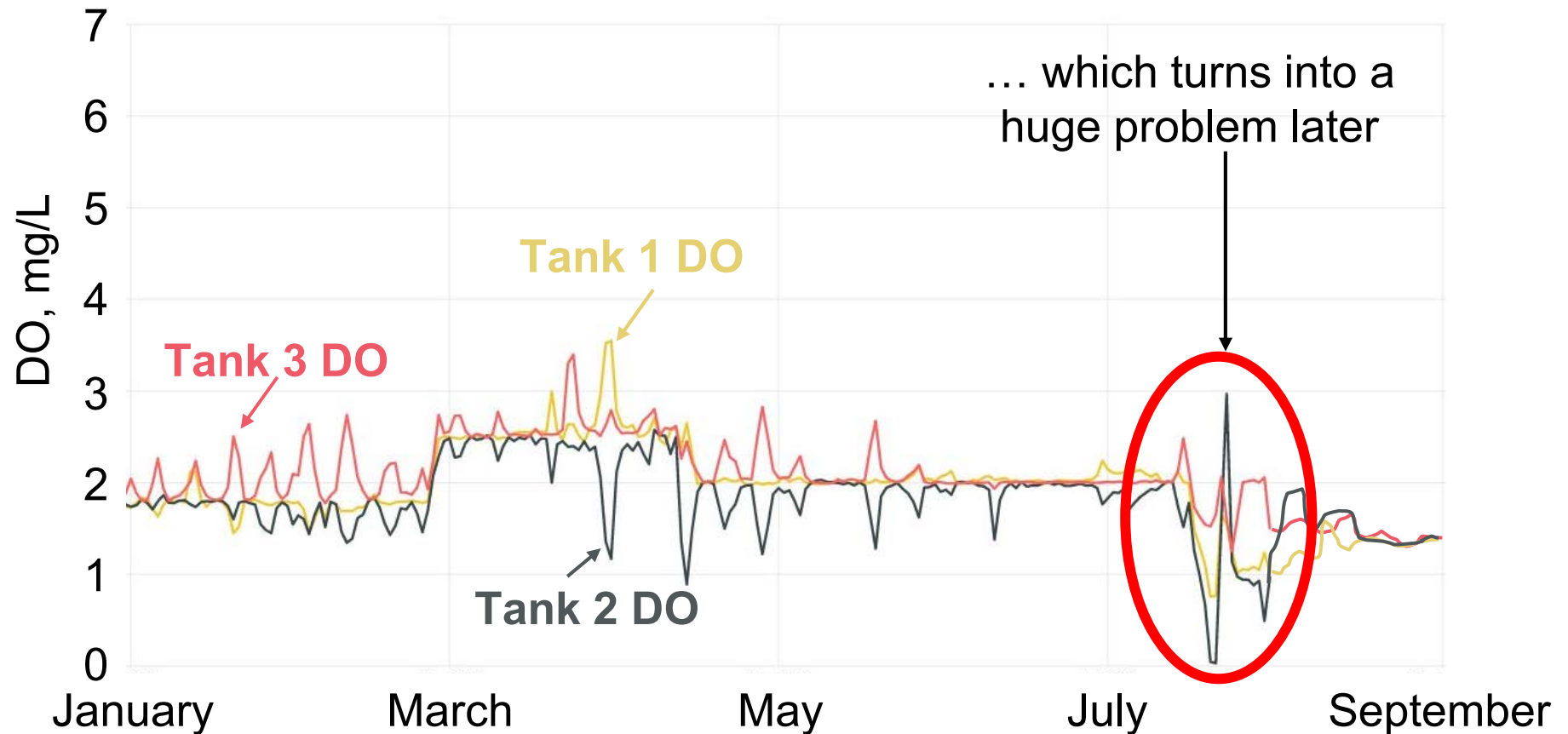




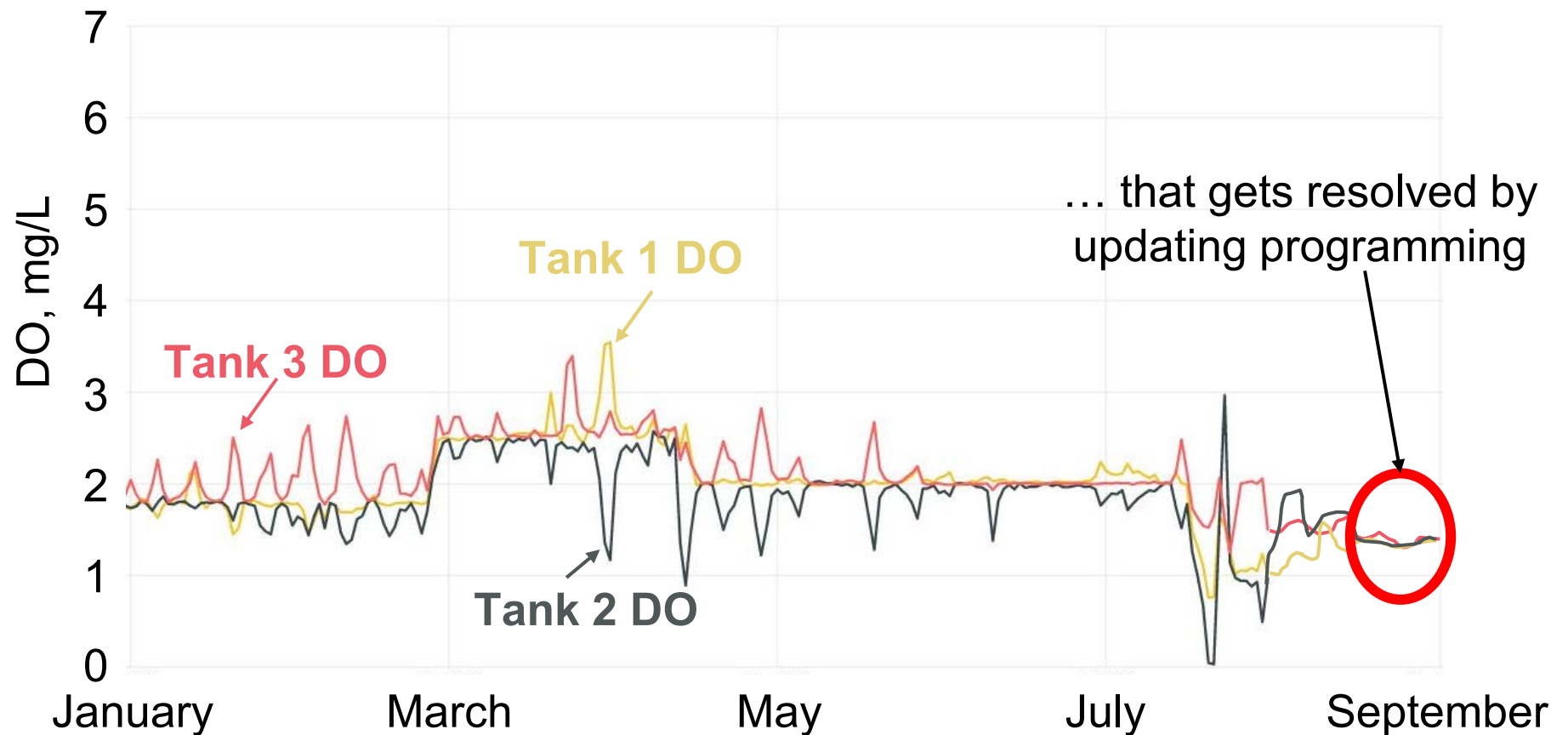
# Case Study #2 – Westfield



# Case Study #2 – Westfield



# Case Study #2 – Westfield





# Case Study #3 – Too Many Instruments



# Case Study #4 – Meriden

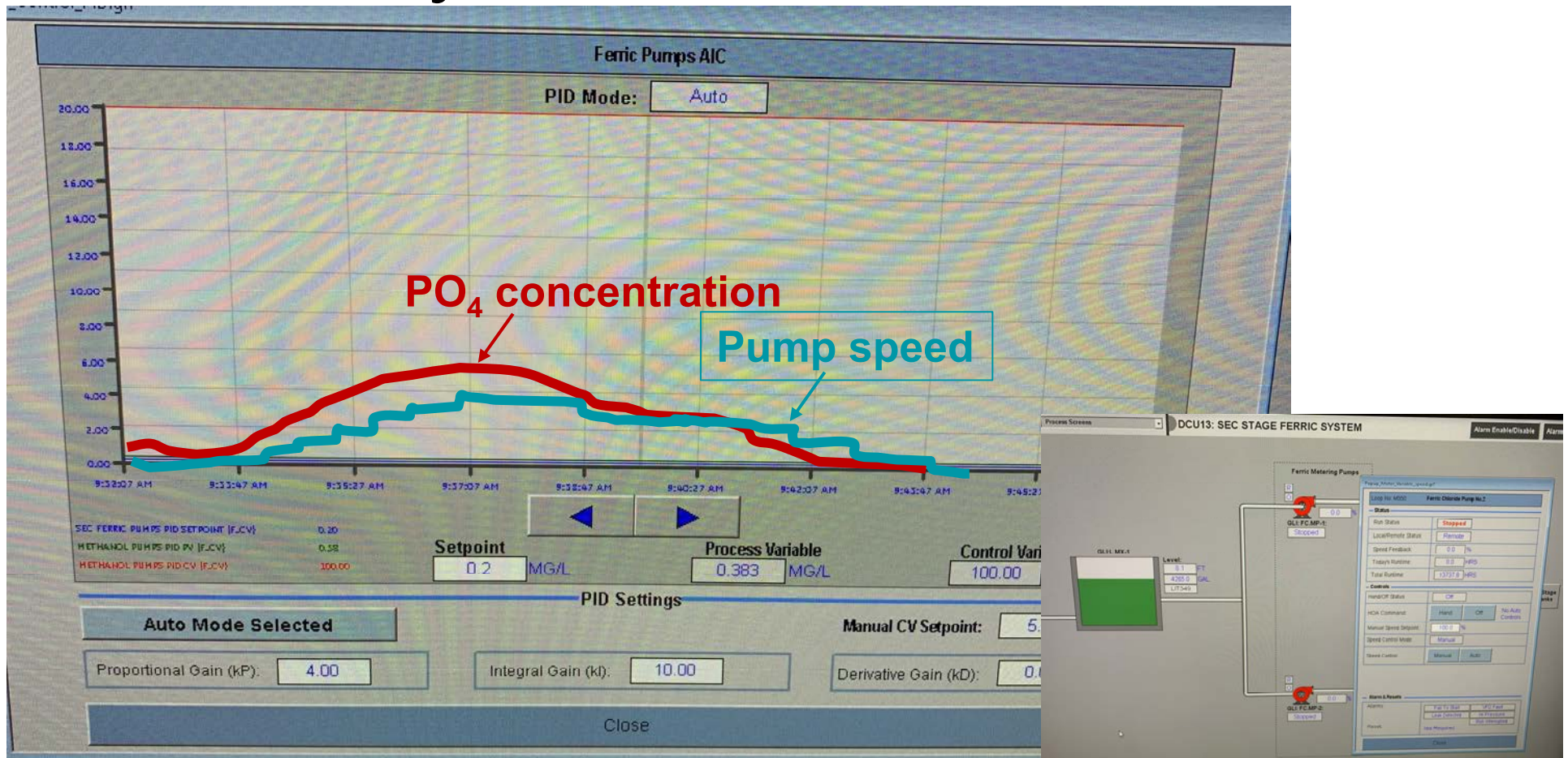


Meriden, CT WRRF Staff



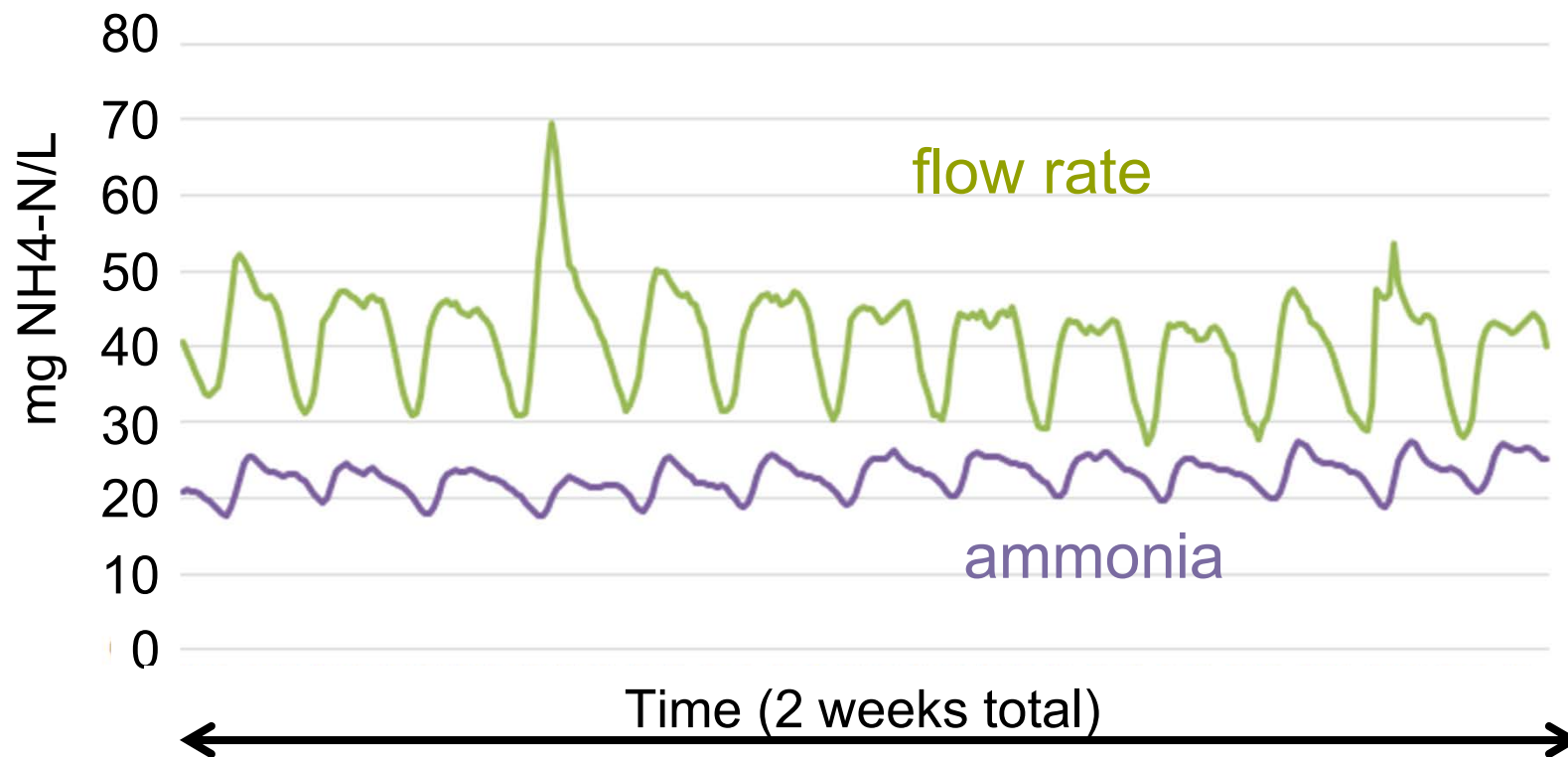


# Case Study #4 – Meriden





# Case Study #5 – Springfield



# Takeaway Message

**Wide range of effective instrumentation, automation, and controls.**

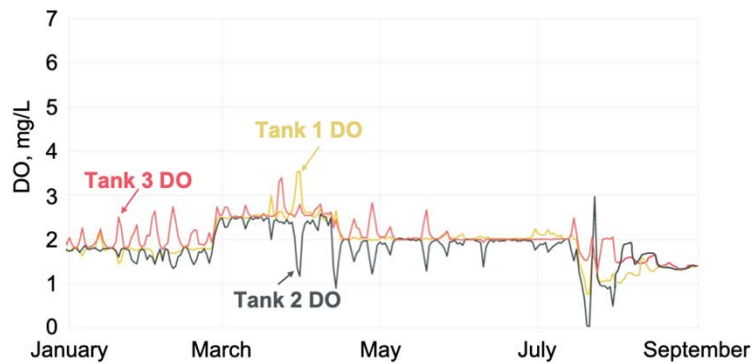
**Data can supplement highly skilled operators for improved decision making.**

## Takeaway Message

We can learn a lot  
from each other.  
So let's continue to  
collaborate!



# Thanks!



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