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Clean water. modular solutions. <i>simple</i> :	

# Today's Speakers



Bob Kennedy CTO Newterra



Darin Feist VP Sales Aeration



Dr. Albert Robert (Bob) Rubin Professor Emeritus NCSU-BAE

# Clean water. modular solutions. simple:

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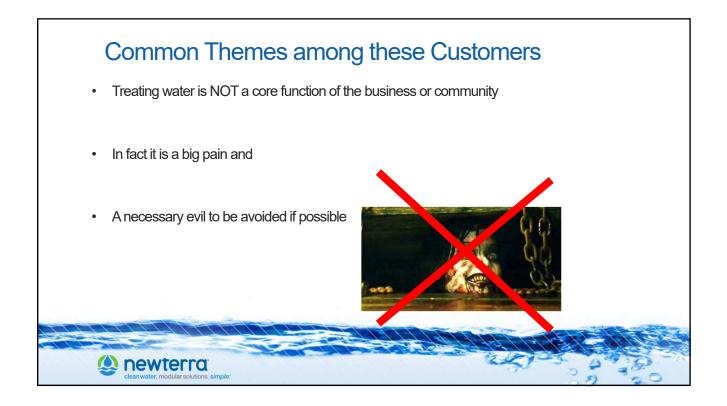




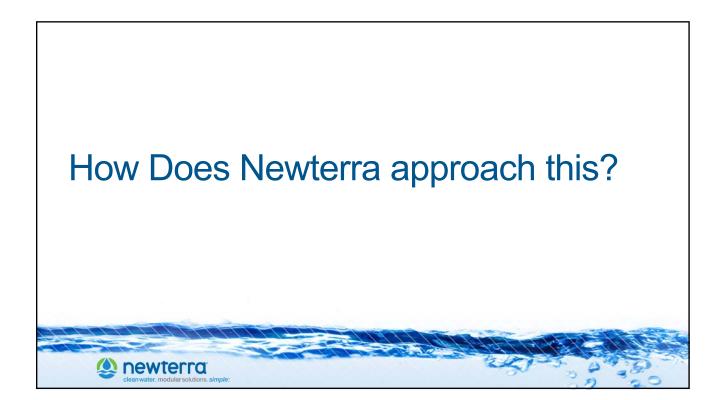




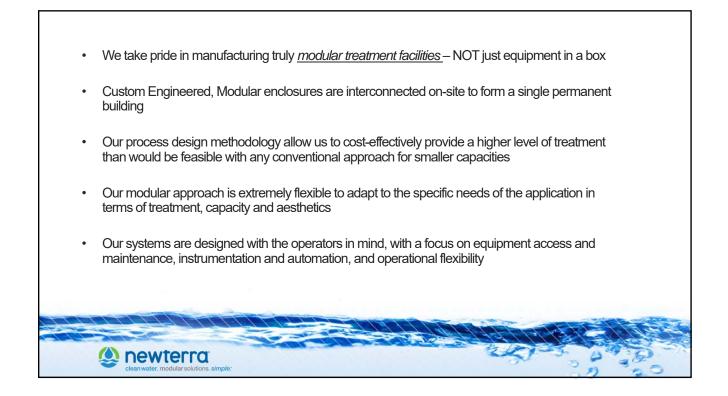


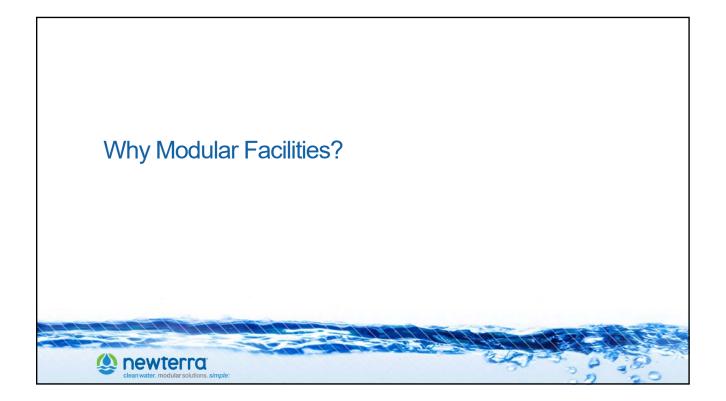


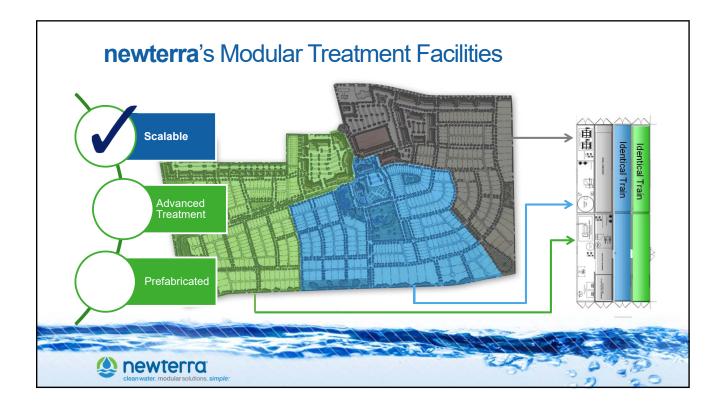


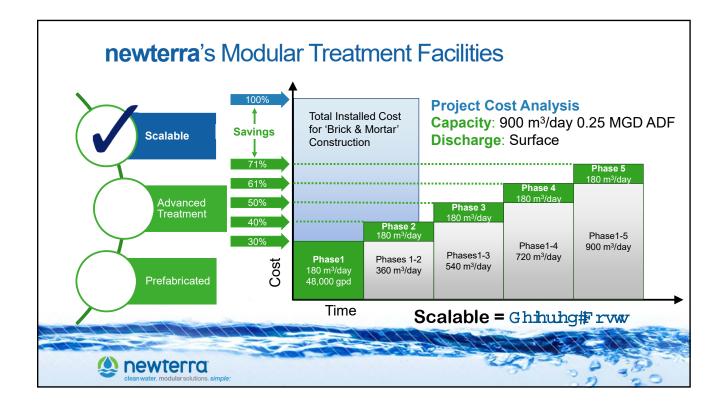


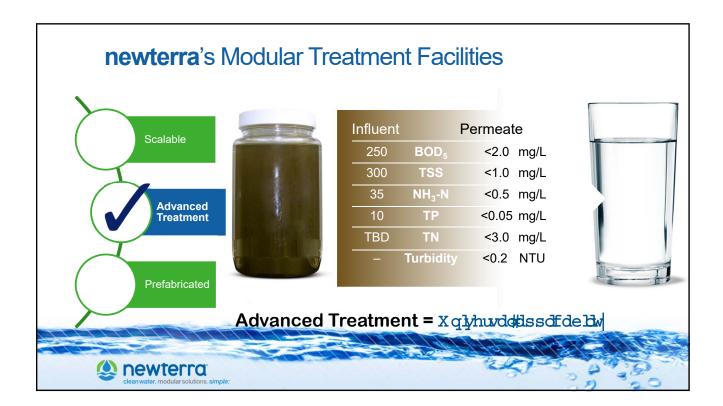


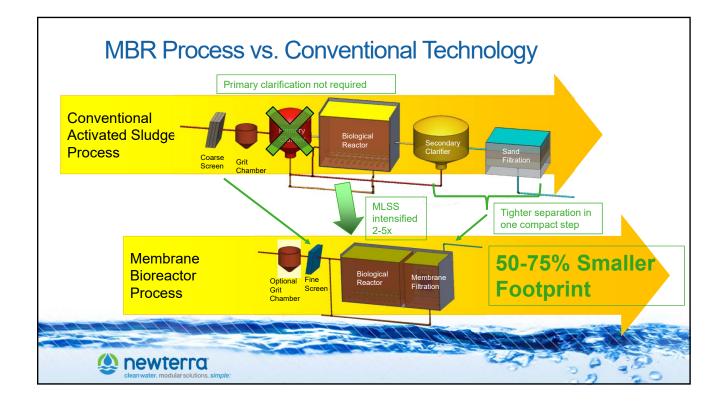


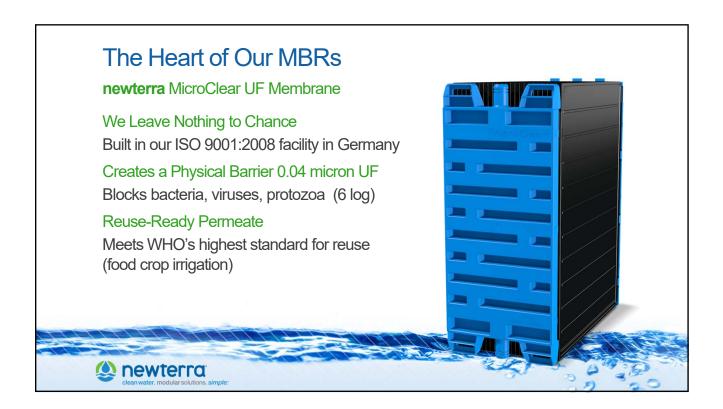


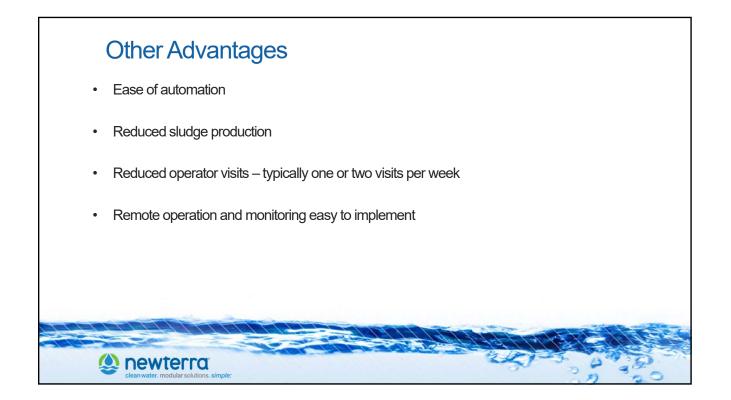




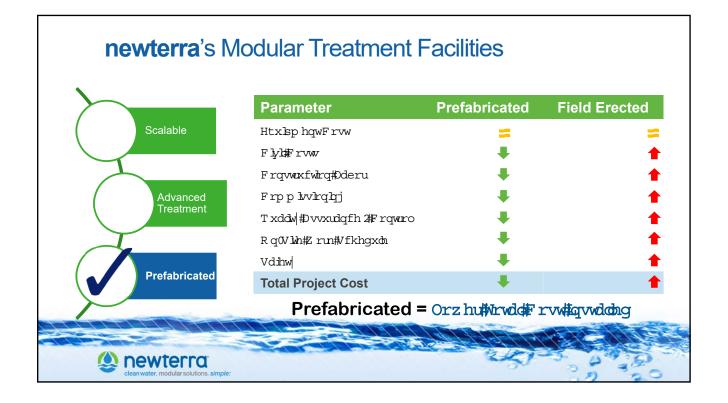


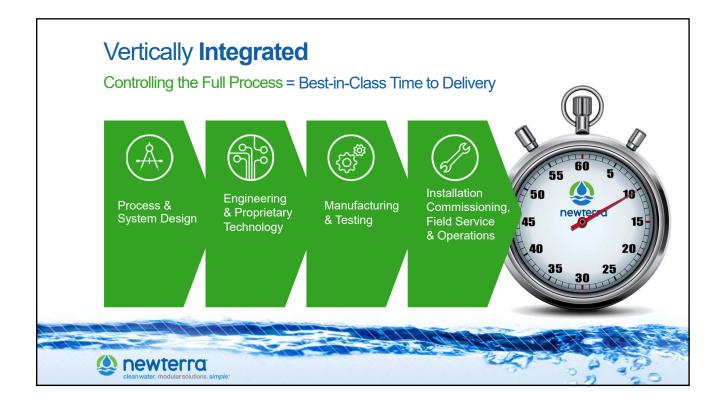


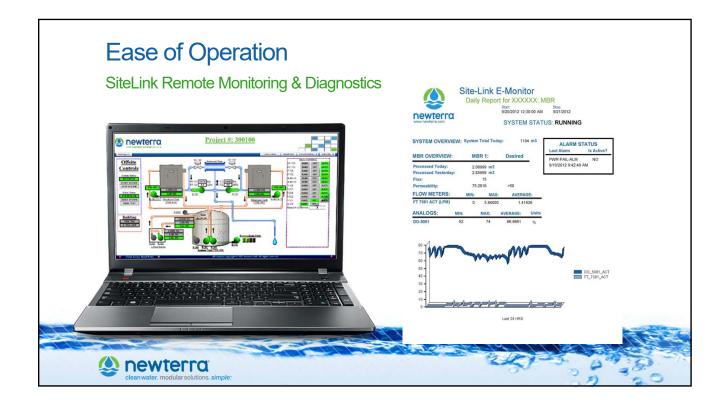


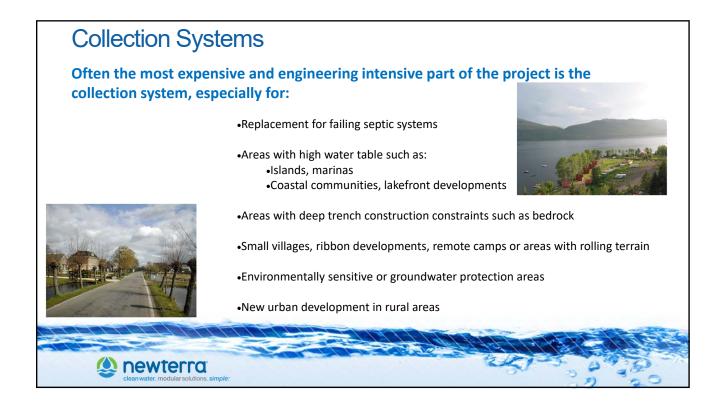














### The Vacuflow/newterra Solution

Sewage flows by gravity to a Collection Chamber buried in the ground. A central vacuum system applies a constant vacuum to the piping network, buried in shallow trenches in a sawtooth fashion that allows liquid to be lifted when necessary.

Lower investment cost due to:

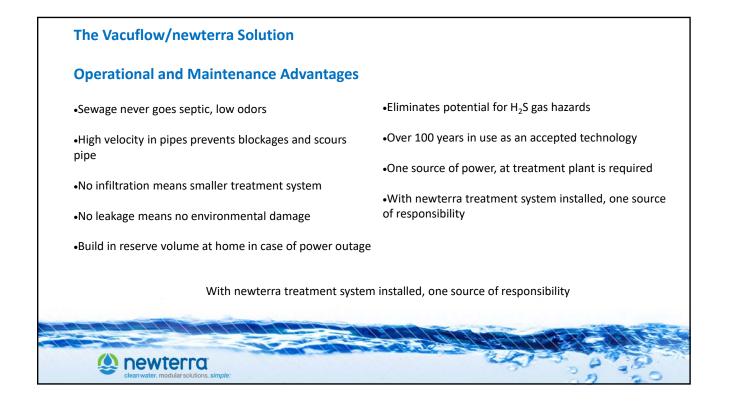
- •Small pipe sizes
- •Shallow, narrow trenches
- •No manholes
- •Pipe around obstacles
- •No lift stations

🔔 newterra



•No electricity except at vacuum station

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# Regulatory Help Newterra provides assistance to the consultant or customer in procuring approvals Newterra regularly participates in reviews with the regulator and the customer/consultant In some jurisdictions newterra can provide permit application and management services





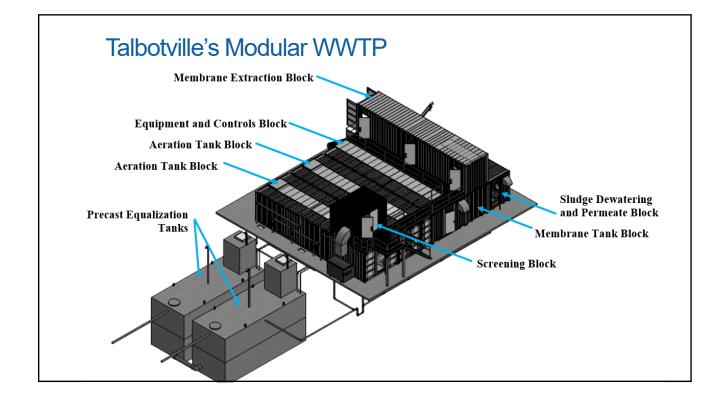


# Talbotville

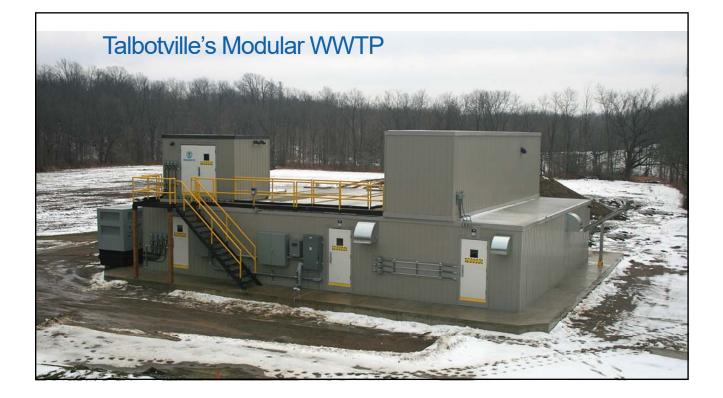
- Phase I for existing homes and new 70 lot development
- Phase 2 double the lots
- Phase 3 and 4 adds more lots and ties in existing septic users in the town

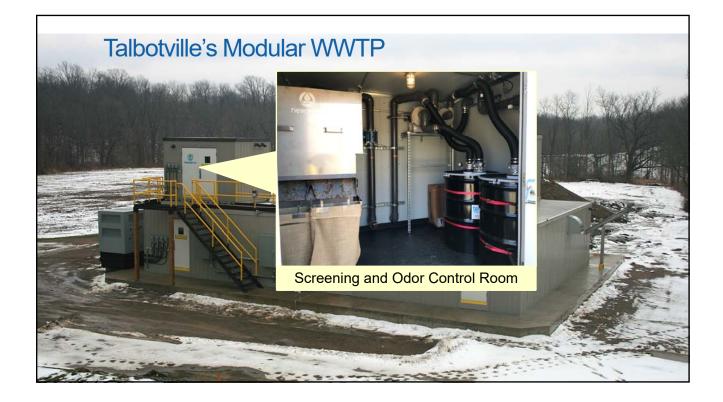
	l Effluent meter	Objective (maximum value unless otherwise indicated)	Criterion	
CBOI	D5	5.0 mg/L	Monthly Average Concentration	
Total	Suspended Solids	5.0 mg/L	Monthly Average Concentration	1
Total	Phosphorus	0.2 mg/L	Monthly Average Concentration	1
Total	Ammonia Nitrogen	1.0 mg/L (May 1 to Nov 30) 3.0 mg/L (Dec 1 to Apr 30)	Monthly Average Concentration	
E. col	li	100 organisms per 100 mL	Monthly Geometric Mean Density	
pH		between 6.5 - 8.5 inclusive	Single Sample Concentration	1
рН		between 6.5 - 8.5 inclusive	Single Sample Concentration	
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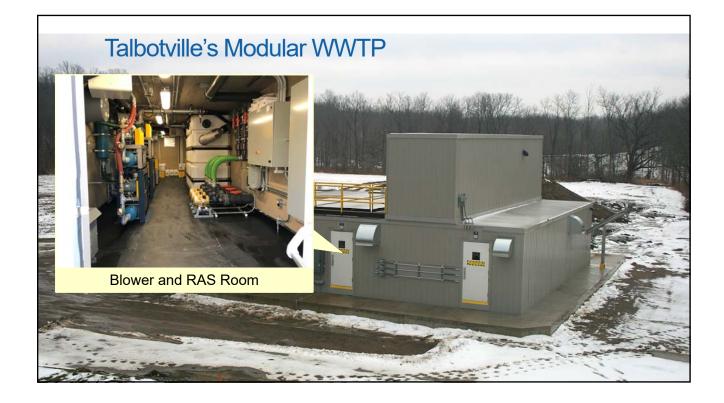




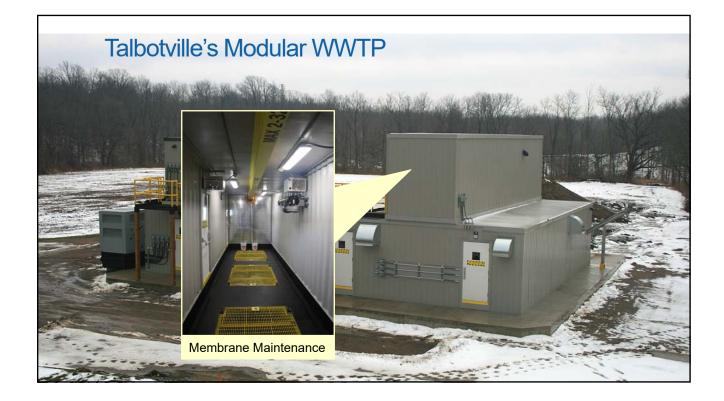


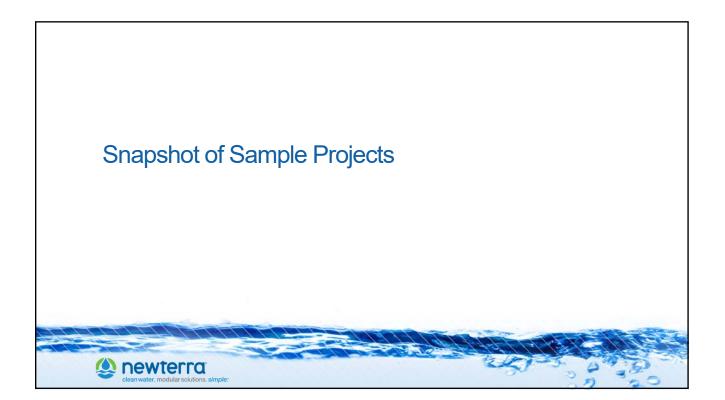


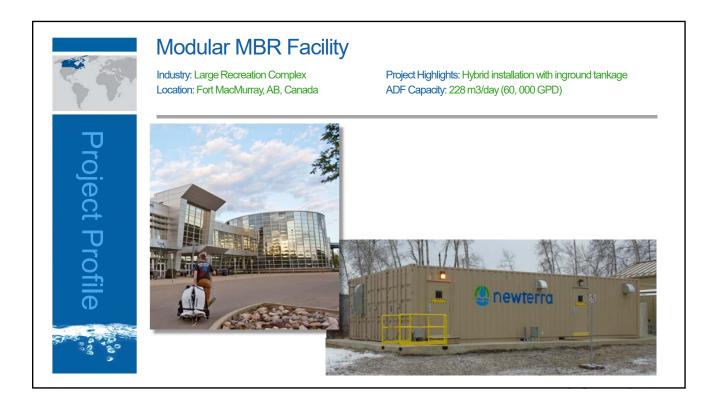














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## Modular MBR Facility

Industry: Poultry (turkey) Processing Location: Canada



Project Highlights: High BOD, FOG (DAF) ADF Capacity: 100 m3/day (25,000 GPD)







# Modular MBR Facility

Industry: Resort Community Location: Lakes District, Ontario Project Highlights: Surface discharge into the pristine lake the resort is built around - the client did not want to compromise ADF Capacity: 150 m<sup>3</sup>/day (40, 000 GPD)







# Modular MBR Facility

Industry: Mobile Home Community Location: Consecon, ON, Canada

Project Highlights: Meeting strict discharge requirements on small capacities ADF Capacity: 83 m³/day (22,000 GPD)





# Modular SBR Sewage Treatment Facility

Industry: Subdivision Location: Ohio Population: 300 Project Highlights: Uses Triton surface aeration equipment Capacity: 70 m³/day (17,000 GPD) A





Industry: Oil & Gas Lodging Facility Location: Northern Canada

Project Highlights: Remote application; no external tankage ADF Capacity: 1500 m<sup>3</sup>/day (400, 000 GPD) (8,000 people)



