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What Is F:M?

Picture a hip new food craze ...



Food For Though

7

What Is F:M?







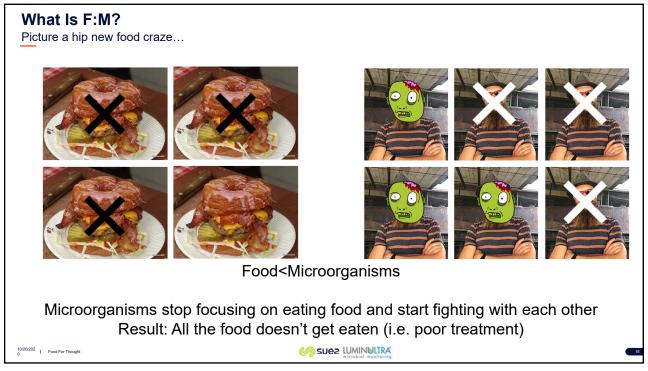
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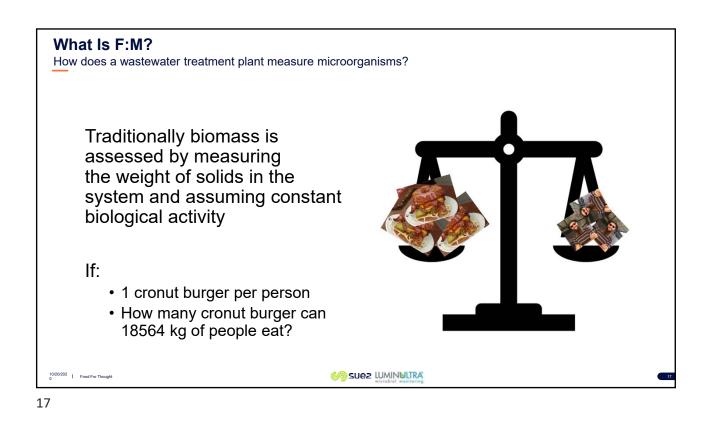


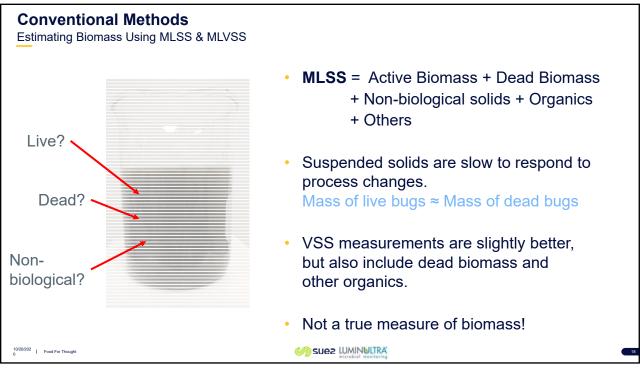
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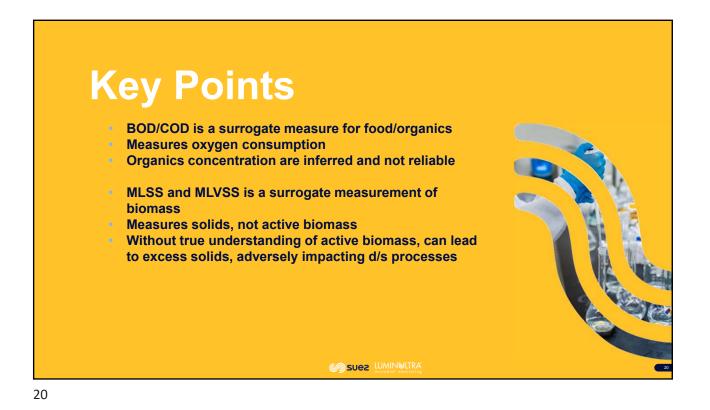
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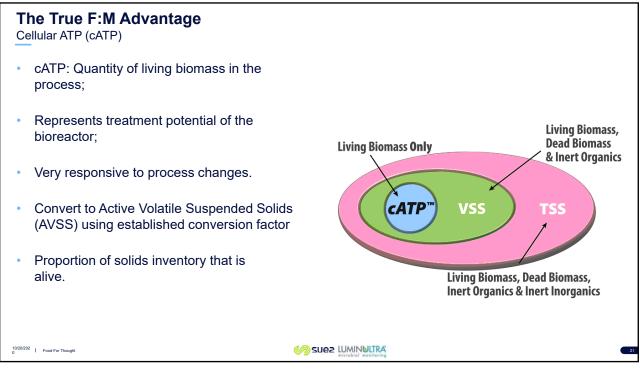


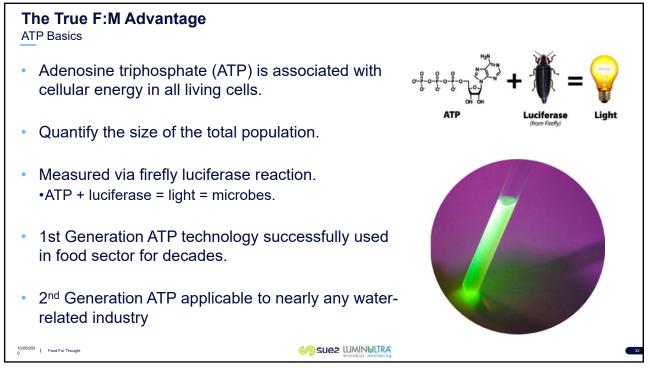




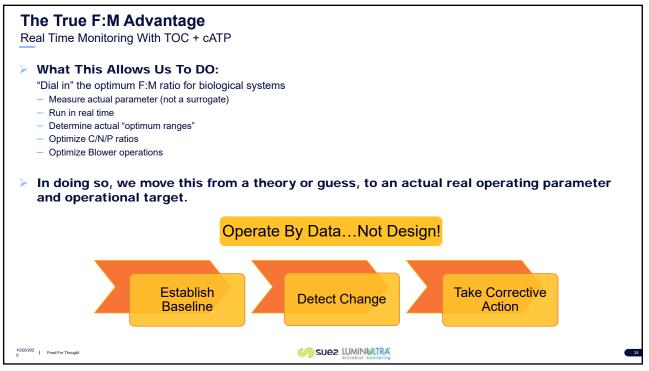
	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)
Description	Amount of oxygen consumed during microbial degradation of contaminants in water.	Amount of oxygen consumed during chemical oxidation of contaminants in water.
Analysis Time	5 Days at 20°C	2-3 Hours (Typical)
Organics Determination	Indirect	Indirect
Interferences	Chlorine, Salts, Sanitizers	Chlorides, Nitrites, Sulfites, Oxidizable Inorganics
Reproducibility	> ±15%	±10%
Measurement Technique	Dissolved oxygen probe is used to monitor amount of dissolved oxygen removed from solution	Colorimetric determination of reduced dichromate which is then correlated to the amount to oxygen consumed
Other Considerations	May Require Manual Dilution Non-Linear Response	Requires Toxic Mercury & Dichromate Generates Hazardous Waste May Require Manual Dilution

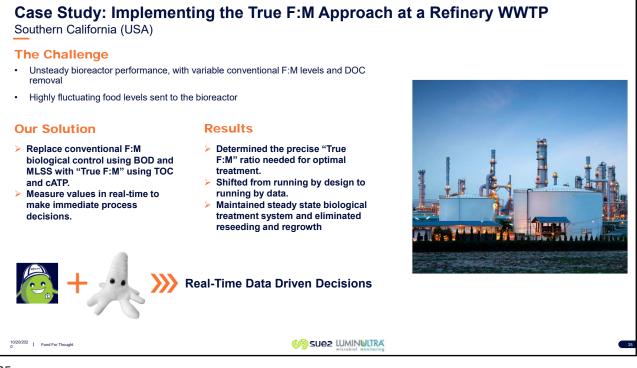




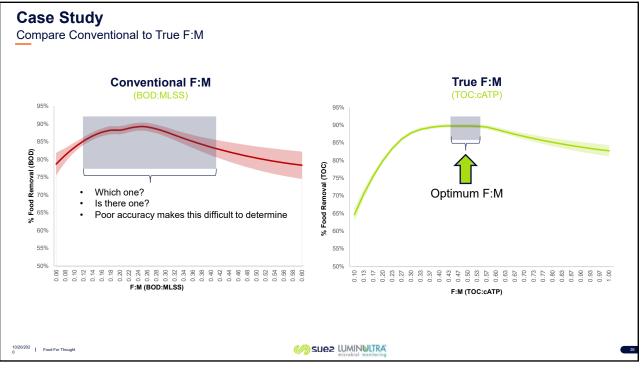


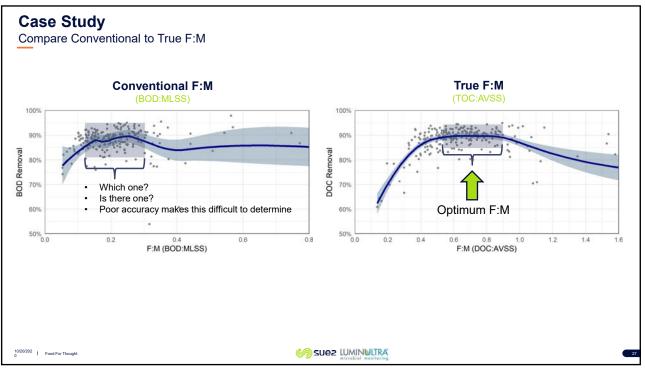
The True F:M Advantage Total Organic Carbon (TOC)		$\begin{array}{c} \textbf{Total Organic Carbon} \\ \textbf{(TOC)} \\ Organics + Na_2S_2O_8 \xrightarrow{Heat, Pressure} \textbf{CO}_2 + H_2O + Na_2SO_4 \end{array}$
Oxygen Consumption ≠ Food	Description	Direct quantification of the total amount of organic carbon in solution. Includes all carbon-hydrogen containing compounds which are amenable to oxidation
	Analysis Time	< 7 Minuets
	Organics Determination	Direct
C	Interferences	None
	Reproducibility	±3%
Carbon = Food	Measurement Technique	Dissolved oxygen probe is used to monitor amount of dissolved oxygen removed from solution
	Other Considerations	
10/20/202 Food For Thought 0		RA ring

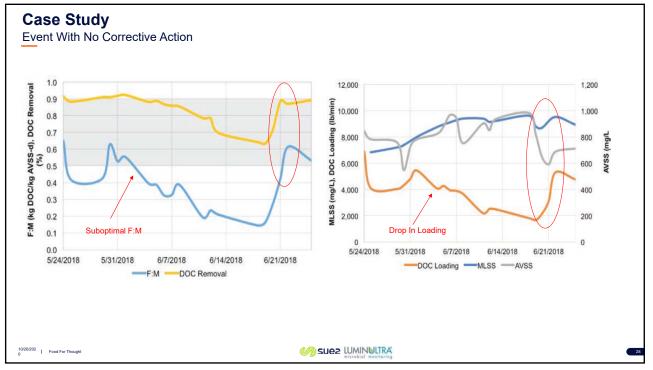


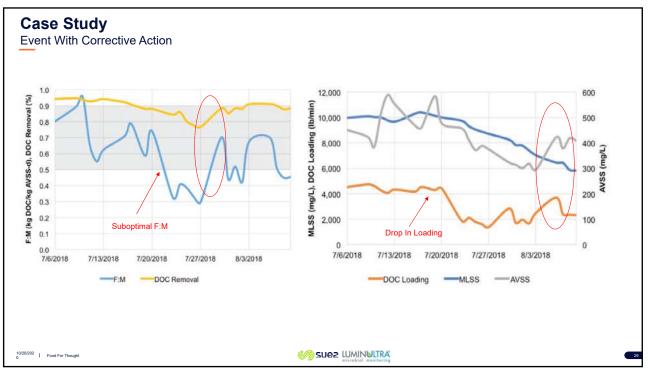


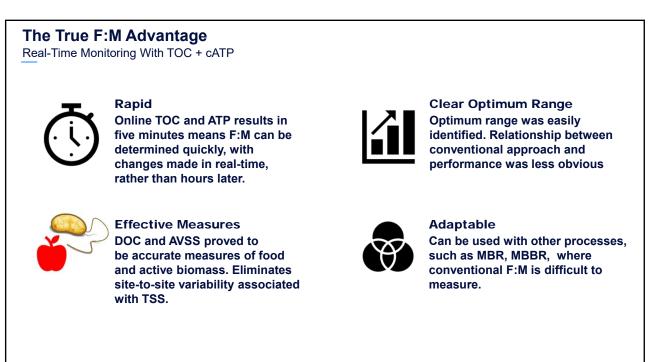




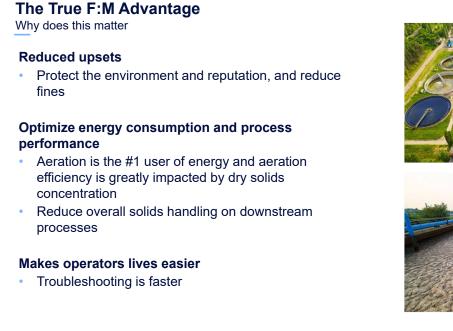








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SUEZ LUMINULTRA