





Microvi Water Technology






Creating a natural habitat for microorganisms


Instead of modifying the microbe to adapt to our "world,"
we create a world to suit the microbe.



Microvi uses only effective microbes, and provides them with an ideal environment

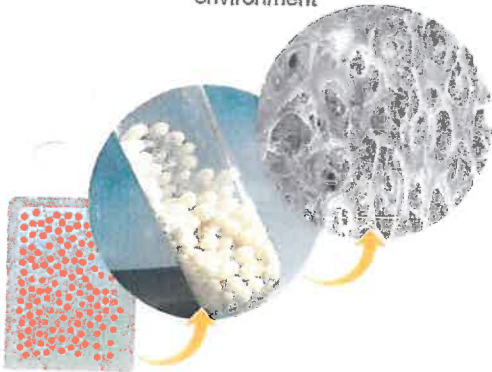


Traditional Treatment

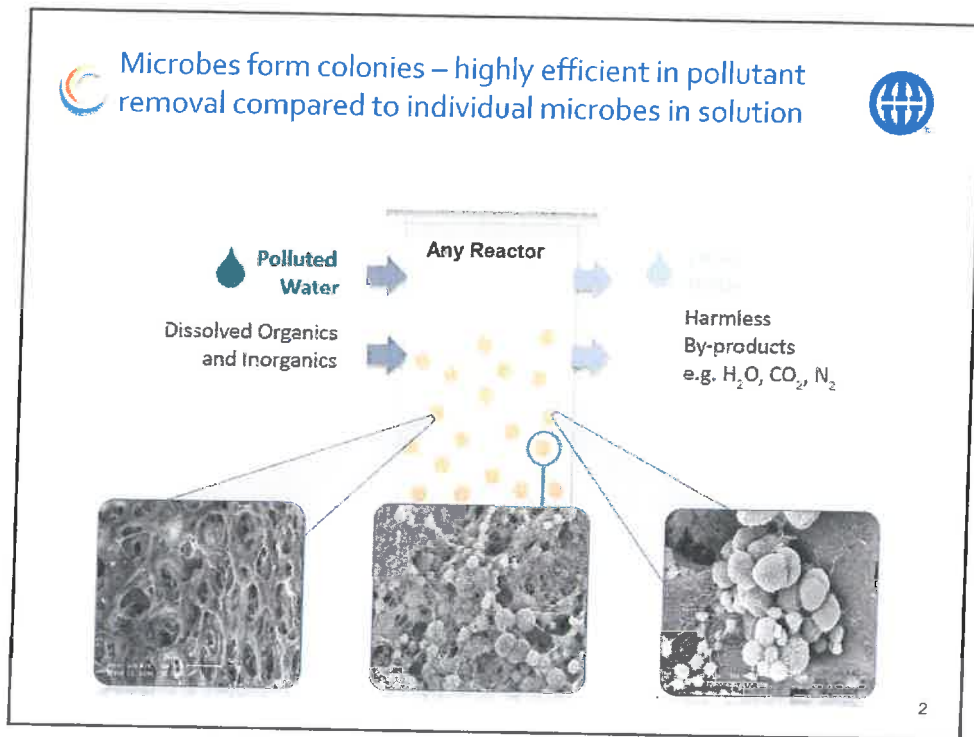


Microvi Treatment

Utilize only the active, effective Microbes ● in a focused, structured environment



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Current biological processes are not an efficient mechanism for contamination removal

Conventional treatment

Activated sludge wastewater treatment


- ✗ Low organism density needs large volume reactors (high CapEx)
- ✗ Environmental stresses and toxicity limit the viable organism population
- ✗ Competition by unproductive organisms reduces performance and increases costs
- ✗ Short lifespan and processing losses can require regular replenishment of organisms

Microvi biocatalyst


- ✓ High organism density - small footprint, low Capex
- ✓ Mature organisms - resistant to environmental stresses and toxicity
- ✓ Exclusively productive organisms - maximises performance and minimises costs
- ✓ Long organism lifespan and stable population – reliable, dependable operation

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Traditional




Microvi




Wastewater Treatment Applications


- Biological Oxygen Demand (BOD)
- Chemical Oxygen Demand (COD)
- Nitrification & Denitrification
- Ammonia
- Nitrate
- Hydrocarbons
- Alcohols
- Phosphorus*
- Pharmaceuticals*

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Key Benefits - Microvi offers full lifecycle advantages for wastewater treatment





10 times
smaller
footprint

Reduced
chemicals

Minimized
sludge

Reduced
energy

Increased
process
stability

Easy to
retrofit an
existing plant

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Selected Case Studies

Ammonia Removal	Perchlorate Removal	Nitrate Removal
 <p>UK Water Utility</p>	 <p>Defence Installation CA</p>	 <p>Sunny Slope Water</p>
 <p>UK Water Utility</p>		



Thank You





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 we create a world to suit the microbe.