NON-MECHANICAL

NO CHEMICALS

NO NEED FOR LARGE INFRASTRUCTURE

DECREASE IN GHGS

LOW OPEX AND CAPEX

SOLAR-POWERED

LOW MAINTENANCE

SINGLE UNIT IMPACTS 16-20 HA OF WATER SURFACE

EM FLUIDS

Other applications

EMF 1120

IRRIGATION PONDS

- Maintain pH
- Reduce clogging of drip irrigation lines
- Reduce maintenance of filters
- Reduce odour
- Restore ecological balance
- Reduce conditions promoting eutrophication
- Decrease Greenhouse Gas emissions

INDUSTRIAL PLANTS

- Increase quality of influent
- Improve process flow
- Reduce maintenance on downstream equip
- Reduce energy cost
- Decrease Greenhouse Gas emissions

INDUSTRIAL PLANTS

- Improve Dissolved Oxygen Levels
- Reduce Odour
- Increase in-situ sludge digestion and reduce dredging requirements
- Prevent mass fish kills
- Restore ecological balance
- Reduce conditions that promote eutrophication
- Reduce Greenhouse gases

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Healing the Enviroment and Transforming industry

EM FLUIDS

CASE STUDIES: EMF 1200

Sewage and Wastewater

PORT LAMBTON LAGOON (CANADA)

PROBLEMS

- Accumulation of sludge
- Odor
- Eutrophication

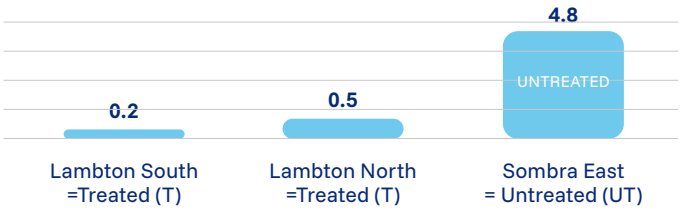
RESULTS

- Reduction in sludge accumulation
- Odor reduction
- Reduction of conditions leading to eutrophication in 137 days

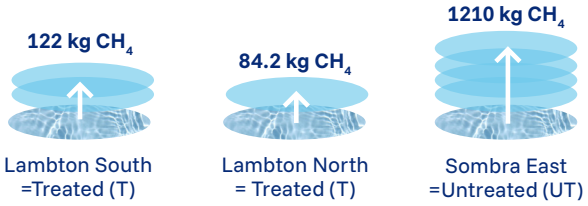
PARAMETERS

↓ 7% TSS
↓ 69% BOD
↓ 80% Ammonia
↓ 88% E-coli

SLUDGE ACCRUAL CHANGE (CM)



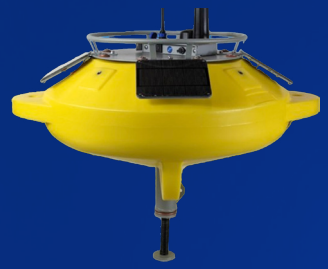
METHANE EMISSIONS ESTIMATE



PRODUCTS

EMF 1120

- Reduce conditions that promote eutrophication
- Promote conversion of excessive nutrients to food chain
- Prevent mass fish kills and reduce bad odors
- Promote thriving and diverse aquatic life
- Enhance aesthetics and water clarity
- Restore ecological balance
- Improve aquatic plant control
- Decrease Greenhouse Gas emissions



EMF 1200

- Manage nutrient levels
- Reduce regulated water parameters
- Reduce E. coli and other anaerobic pathogens
- Promote an aerobic waterbody
- Digest organic sludge in situ
- Increase facility processing capacity
- Delay or eliminate expensive dredging
- Allow for a cost-effective sludge management

LOWER OPEX AND CAPEX

Reduce OPEX by lowering costs associated with mechanical aeration and sludge management

Improve CAPEX by reducing the need for new infrastructure to increase processing capacity

CASE STUDIES: EMF 1120

Lake, Pond and Reservoir

AMATA SPRING (THAILAND)

PROBLEMS

- Seasonal fish deaths (Feb and Oct)
- Odor
- Poor water clarity
- Excessive nutrients

RESULTS

- Reduction in sludge accumulation
- Odor reduction
- Reduction of conditions leading to eutrophication in 137 days

PARAMETERS

↓ 40% COD
↓ 70% Ammonia
↓ 85% Chlorophyll-α
↓ 50% Nitrogen
↓ 80% Phosphorus
↓ 70% BOD

IMPROVEMENT AFTER 6 WEEKS OF TREATMENT

Before After