

BiOWiSH™ Aqua

Environmentally Friendly, Non-Toxic Water Treatment

Benefits

- Rapid nitrification and denitrification in aerobic and anaerobic conditions
- Reduces sludge production
- Increases plant treatment capacity
- Reduces odors
- Reduces aeration requirements
- Reduces need for chemical additives
- Improves plant stability
- Pre-treats influent in collection systems
- 100% natural and non-toxic

Uses

- Municipal Wastewater
- Industrial Wastewater
- Surface Water Treatment
- Nutrient Management
- Odor Control

Sizes

- 100g
- 1kg
- 5kg
- 10kg

How BiOWiSH™ Aqua Works

BiOWiSH™ is a proprietary composite biocatalyst that enhances a broad range of hydrolytic, oxidative and reductive biochemical reactions. BiOWiSH™ contains a novel consortium of metabolically cooperative microorganisms, with endogenous and exogenous enzymes, and small molecule metabolic co-factors which support both biocatalytic and metabolic activity. BiOWiSH™ products are composed of all-natural, non-genetically modified materials.

BiOWiSH™ Aqua accelerates the biological removal of nutrients from wastewater across a wide range of operating conditions. A unique feature of BiOWiSH™ is the ability to achieve high rates of denitrification in aerobic treatment conditions.

Expense Reduction

- Reduced sludge production, solids accumulation, sludge removal in lagoons systems
- Reduced need for aeration
- Defer capital expenditure by eliminating the need for additional unit operations
- Reduced need for chemical treatments

Environment, Safety and Sustainability

- Optimized water discharge quality
- Reduced chemical handling and discharge
- Reduced energy use for aeration and pumping



biowishtech.com

Biological help for the human race.

Available User Guides

We have comprehensive user guides available [on our website](#) for BiOWiSH™ Aqua dosing in the following applications:

- Water Treatment Dosing Guide
- Bioaugmentation for Municipal Sewerage Lagoons
- Bioaugmentation for Biological Nutrient Removal Units
- Bioaugmentation for Sequencing Batch Reactor Units
- Bioaugmentation for Activated Sludge Units
- Ponds, Lakes and Decorative Water Features

Partner/Client	Country	Type	Results
City of Pune	India	Open Sewage Canal	Improved BOD & COD by 71% and 72%, respectively. Reduced odor in surrounding areas.
City of Pandharpur	India	Open Sewage Canal	Improved BOD & COD by 66% and 42%, respectively. Reduced odor in surrounding areas.
City of Barranquilla	Colombia	Municipal Sewage Lagoons	Reduced BOD and Total Suspended Solids by 50%. Deferred need for plant expansion and needed capital investment.
Merlimau River	Malaysia	River Remediation	Improved water quality and dissolved oxygen (DO) in the river by 40%.
Avon Organics	India	Industrial Wastewater	In less than 2 weeks, reduced BOD & COD by 56% and 50%, respectively.
Thatcher's Cider	UK	Industrial Wastewater	Reduced sludge by 75% based on removal receipts. Significantly removed odor in the lagoons.

Nitrogen Reduction

BiOWiSH™ Aqua has a unique ability to rapidly reduce nitrogen loading using multiple bacterial facilitated metabolic pathways. This includes a previously unharnessed ability to denitrify nitrogen into N₂ gas in aerobic conditions.

Odor Reduction

BiOWiSH™ Aqua operates as an effective Facultative Anaerobe allowing it to reduce the emission of Volatile Organic Compounds (VOC's). Operating aerobically, it can rapidly reduce organic loading that is the nutrient for odor causing bacterial strains.



Biological help for the human race.

Address

2724 Erie Avenue, Suite C
Cincinnati, Ohio 45208
biowishtech.com

Contact

wastewater@biowishtech.com
P: +1 312 572 6700
F: +1 312 572 6710



**Water
Treatment**