

BiOWiSH® Aqua

For wastewater and surface water treatment

Wastewater Treatment

- Rapid nitrification and denitrification in aerobic and anaerobic conditions
- Decreases sludge production, reduces sludge removal expenses
- Increases plant capacity
- Reduces aeration requirements
- Pre-treats influent in collection systems
- Defer capital expenditure by eliminating the need for additional unit operations
- Reduces need for chemical treatments

Surface Water Treatment

- 100% natural and non-toxic
- Restores water quality
- Removes (rather than masks) odors
- Reduces need for chemical additives
- Improved BOD, COD, and TSS
- Manages nutrients

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.

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.



biowishtech.com

Biological Help for the Human Race®

BiOWiSH® Aqua

BiOWiSH® Aqua is formulated to provide the most powerful bioaugmentation across the widest range of operating conditions



Available in 100g, 1kg, 5kg, and 10kg sizes.

Uses

- Municipal Wastewater
- Industrial Wastewater
- Surface Water Treatment
 - Ponds and lakes
 - Rivers
 - Canals and nallahs

Water Treatment Products

BiOWiSH® Aqua is our base formulation for water treatment. BiOWiSH® Aqua is suitable for most surface water and wastewater bioaugmentation needs.

We also offer BiOWiSH® Aqua FOG for water treatment applications with fat, oil, and grease over 100mg/L and BiOWiSH® Odor.

Visit us online to view our full product line.

The Summer Palace: A Water Restoration Success Story

As a research-backed company, our list of successful case studies is always growing. One such case study is at the Summer Palace in Beijing, China. The Summer Palace is described as “a masterpiece of Chinese landscape garden design.” Three quarters of the 2.9 km² garden is covered by water.

Before the addition of BiOWiSH®, water quality was not compliant with China’s official standards for pollution in surface water features. But, within two weeks of treatment, nutrient loading dropped down considerably. Total phosphorus and total nitrogen decreased, meeting the standard requirements.

See the results of the study at biowishtechnologies.com/product/aqua/ in the case study section.



Additional Case Studies

Site	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 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.
Slaughterhouse	South Korea	Industrial Wastewater	Reduced BOD, COD, SS, TN, and TP by 76%, 76%, 89%, 85%, and 61% respectively. Met compliance within 6 weeks.
Ranisagar Lake	India	Lake	Improved the water quality index from 36.6 (Bad quality) to 57.5 (Moderate quality) and the trophic status from hypereutrophic to eutrophic in 8 weeks.



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**Water
Treatment**