RIVER, LAKES, PONDS & LAGOONS

BOD, TSS AND ALGAE CONTROL

Case Histories

Environmental Leverage® Inc.
A program using a 2 lb. MicroBlock™ and MicroClear® 101 was used every ½ Mile.
High areas of traffic like around this Marina and Gas pumps needed extra bacteria to break down oils from boats.
Papermill Lagoon with High levels of Duckweed and Foaming

Bioaugmentation program with MicroSolv™ 118, MicroClear® M100 and Nutrient optimization

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Brown Algae mixed in with green, blue/green algae.

Algae can die off as it sits in stagnant areas. Mold and fungi can grow and can build up on or around algae. These mold spores can sometimes cause false reading on fecal testing.

- MicroBlock™ used to break down organics and fish oils causing algae and duckweed
GUATEMALA / LARGE LAKE AND RIVER SYSTEM

High levels of pollution exist where no central sanitary systems occur. Localized treatment necessary.
Cyanide can easily be broken down for Mining Lagoons remediation. With Bioaugmentation.
Bioaugmentation program used upstream at the Wastewater Treatment Plant & MicroClear® 101 used at final polishing lagoons
Bioaugmentation can easily reduce the Carbon, Nitrogen and Phosphorus present that causes Algae, Duckweed and Unsightly Growth.
Community Pond

Top Images Before
Bottom Images After Bioaugmentation with MicroClear® 101
This customer has used MicroClear® 101 for over ten years now for his private pond to eliminate algae and scum.
Algae in Ponds
Above image After a Total program using MicroBlocks™ in lift station for Grease (FOG control) & a Dual program with MicroClear® 205 and M100 for the SBRs
This plant had issues with BOD, TSS & Algae.

This plant started using our dual program Bioagumentation in 2006, and has been maintaining excellent results since.
Purple color in lagoons is a big issue and is usually not algae. Purple sulfur bacteria can easily grow and thrive in ponds, lakes, any body of water where there are high levels of septicity. Purple sulfur bacteria indicate a condition that should be addressed quickly as H₂S gasses may easily build up and cause safety issues.

Dual program not only reduced the Odors, but also reduced the TSS, BOD & harmful purple sulfur bacteria.
Bioaugmentation Programs
That build our Global business

Exceptional Results

MicroClear® MicroBlock™

MicroClear® 101 & MicroClear® Bionite

Dual Program

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WE ARE DEDICATED TO MAINTAINING A NATURAL, SAFE AND GREEN ENVIRONMENT...

so that our children can enjoy the same resources and beauty that we have for generations.

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Environmental Leverage Inc.  
The Next Generation of Solutions

Complete Line of Bioaugmentation Products, Laboratory, Microscopic Biomass Analysis, Wastewater Training, Consulting & Total Systems Approach

- Onsite WWTP Audits & Consulting
- Beneficial Reuse & Biosolids Alternatives
- Wastewater Training Programs
- MicroClear® & MicroSolv™ Bioaugmentation Products
- Cooling Tower & Wastewater Microscopic Lab Services
- Computer Based Dosing Wizards
- Online WW ELearning Courses
- WW Training Materials

www.EnvironmentalLeverage.com
Wastewater Audits

- Full Onsite Audit of Treatment Plant Systems or “Virtual Audits”
- Evaluation of Equipment, Process Recommendations, System Optimization, Troubleshooting, Testing, Solids Handling, etc.
Wastewater Training Programs

Wastewater Training Materials
4 – CD Set
• Higher Life Forms CD
• Filamentous Bacteria CD
• Overview of Wastewater Training & Systems
• Wastewater Microbiology

“Filamentous Identification The Easy Way™” Training CD
Powerful Filamentous Training

Custom Training CD or Manuals

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Control & Minimization of Total costs of operations is always necessary, but guaranteed reliability & long term sustainability are the keys to transport your wastewater treatment system above & beyond normally targeted measures. These wastewater training programs are based upon years of experience and accumulation of practices on actual performance of thousands of treatment systems. These wastewater training programs have been consistently successful in teaching people how to be proactive and achieve their goals of reducing Total Costs of Operation while also achieving compliance.

You will learn step by step procedures which will enable you or your operators to develop quick, easy to establish system checks to control and monitor your system in order to predict upsets, minimize energy and chemical usage & avoid costly repairs and unnecessary maintenance procedures. These courses have been pre-approved for Wastewater CEU's in Alaska, Arkansas, California, Connecticut, Delaware, Georgia, Hawaii, Idaho, Indiana, Louisiana, Maine, Massachusetts, Minnesota, Nevada, New Jersey, New York, North Carolina, South Dakota, Tennessee, Vermont, Washington, Wisconsin and West Virginia. Some states do not require pre-approval. If you need these approved for your state, please contact our office.

These courses are eligible for CEU's, Contact Hours or PDH (Professional development hour) in Alabama, Arizona, Maryland, Virginia and more to come. Now approved in Canada for Nova Scotia and Saskatchewan.
Environmental Leverage’s Analytical Services

- Wastewater Biomass Analysis
- Filamentous Identification
- Cooling Tower Microbio Analyses

Environmental Leverage Inc.

Standard Wastewater Biomass Analyses:
- Cover letter with comments, recommendations and troubleshooting tips.
- Higher life form sheet
- Floc structure analyses
- Photo Sheets
- A CD with photos and videos included $250.00

Wastewater Microbiology Lab Testing

Wastewater Biomass Analyses with Filamentous Identification including Gram and Nissel stains, suggestions on cause and control, troubleshooting tips as well as the standard analyses. $350.00

Send 50-100 ml sample in plastic container overnight. Notice other than wet only. Call to setup sample testing 830-396-9791. Results 2-3 days after sample received.

Filamentous Identification

Quality • Service

www.EnvironmentalLeverage.com
- Training & Treatment Systems Audits
- Newsletters (digital monthly troubleshooting)
- Troubleshooting
- Filamentous ID.
- Higher Life Forms
- Bug of the Month
- Microscopic Biomass Analyses

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Join Environmental Leverage® on a Journey into the Future with our next generation of Water & Wastewater Treatment solutions

The future begins now... Environmental Leverage® Inc. bringing you Tomorrow’s Water Today !!!!

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