

LAB STUDY REPORT



EnviroDEFENSE[®] PurPond Aquatic Test: COD, Organics & Clarification

Airmax

Safe, Simple Solutions[™]



Product Overview

EnviroDEFENSE® PurPond Aquatic is a dry bacterial blend designed to remove organic matter from closed and slow-flow water systems therefore improving water clarity.

Water clarity can be compromised by excess nutrients such as nitrogen, potassium and phosphorus. A decrease in water clarity can reduce water quality and/or oxygen levels and sunlight is unable to penetrate the scum on the surface. This poses threats to organisms in the water like fish, plants and other aquatic life. In addition, poor water quality makes it increasingly difficult for treatment plants to meet effluent permit limits. Introduce EnviroDEFENSE® PurPond Aquatic into the pond, lagoon, lake, etc. to prevent these periods of poor water quality. EnviroDEFENSE® PurPond Aquatic uses bio-augmentation, a non-chemical and natural method, to reduce organic levels that threaten good water quality. The microbes that are introduced ingest carbon, phosphorous, potassium and nitrogen at an accelerated rate, which limits the organic loading available and improves water quality. This control increases water clarity and promotes overall better health for the aquatic environment. Use of EnviroDEFENSE® PurPond Aquatic also aids treatment plants in meeting effluent regulations with decreased use of aerators. While proper aeration is important to enhance the effectiveness and longevity of microbial bio-augmentation and nutrient deactivation applications, treatment plants will learn that the decreased use of aerators will save on energy costs.

Advantages of EnviroDEFENSE® PurPond Aquatic

HELPS REDUCE FISH DISEASE BY REMOVING CONTAMINANTS
GREATLY REDUCES LABOR TIME
DEGRADES A HIGH CONCENTRATION OF WASTE
ENHANCES BOD/COD/TSS REMOVAL
REDUCES SLUDGE BUILD UP
COST-EFFECTIVE AND EASY TO USE
INCREASES SYSTEM EFFICIENCY
CONTAINS NO HARSH CHEMICALS

Applications

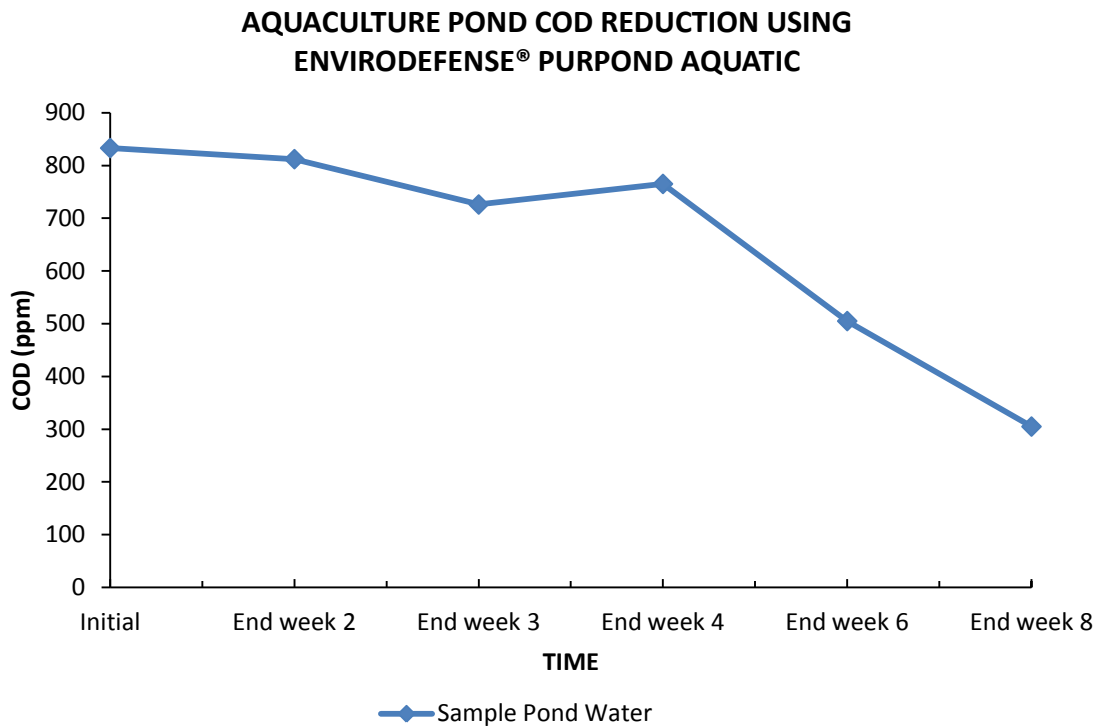
Water Gardens
Koi Ponds
Aquariums



Safe, Simple Solutions™



The graph below shows the reduction of a COD by strains in EnviroDEFENSE® PurPond Aquatic. As the substrate is degraded the % oxygen saturation decreases.





The photos below show the clarity achieved by using weekly doses of EnviroDEFENSE® PurPond Aquatic in a 2 million gallon lagoon treated for 4 weeks.



Technical Specifications For EnviroDEFENSE® PurPond

Targeted Compounds	Organic debris, sludge build up, cellulose, un-eaten food, animal waste, twigs, leaves and other earthen debris.	
Bacterial Count	2 Billion CFU's bacillus spores.	
Bacterial Type	Bacillus spore blend.	
Formula Properties	Tan, free flowing powder with earthy odor with dendritic salt carrier. (Available in Canadian approved (CB) formulation).	
Performance Properties	Effective pH Range: 4.0-11.0	Temperature Range: 45-120°F (5-50°F)
Packaging	50 lb Containers (Shelf life of 24 months in an original unopened container).	



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For More Information Call:

866-424-7629

www.envirodefenseproducts.com



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