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## (WP1) The Easy Answers To ... The Four Most Important Lake Problems v1

1. Excessive phosphorous (P)
2. Excessive nitrogen (N)
3. Excessive muck - carbon (C)
4. Low oxygen

**Bio-Zyme** is the natural, easy and affordable solution to these problems:

**Bio-Zyme** is a natural lake bacteria

Over 20,000 lakes are being managed primarily with **Bio-Zyme**.

- 15 aquatic management companies are using Bio-Zyme.
- Over 60,000 acres of water are under management.
- Bio-incubators are the key to growing **Bio-Zyme** for cost effective large lake management.
- Lake Okeechobee, STA's, eutrofied urban and agricultural water are prime candidates.

### **Bio-Zyme** in the Aquatic Environment - How it works:

- **Bio-Zyme** probiotic bacteria conduct critical roles in nitrogen cycling  $\text{NH}_3 \rightarrow \text{NO}_2 \rightarrow \text{NO}_3 \rightarrow \text{N}_2 \uparrow$ . **Bio-Zyme** bacteria utilize N as a building block in its genetic structure.
- **Bio-Zyme** solubilizes P and uses P in its metabolism and genetic DNA for "Enhanced Biological Phosphorous Removal" (EBPR).
- **Bio-Zyme** reduces sediment (organic matter) (C) by converting carbon compounds for use in its metabolism and cell structure.
- **Bio-Zyme** bacteria utilize nutrients and are primary producers, providing a critical "base" of the food chain. These bacteria contain N, P and C which are transferred from bacteria to protozoa to fish, etc.
- **Bio-Zyme** utilizes nutrients reducing eutrophication. Data is available showing P and C reduction.
- **Bio-Zyme** increases water clarity by reducing organics and nutrients in the water.
- **Bio-Zyme** eliminates floating tussocks by utilizing their organic material (C).

**Bio-Zyme** is likely to be over 20 – 500 times less expensive than dredging, having only positive impacts on fish production, higher oxygen, improved water quality and reduced nutrients.

Go natural, the original way lake management was designed. Let **Bio-Zyme** be your lake problem solver. Many lakes can be returned to the way they were before eutrophication impacted them.

Call for a survey, data sets or PowerPoint presentation, our number is 888-212-1390 . We can show you **Bio-Zyme** managed lakes throughout Florida and answer any question you may have.