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29 December 2013

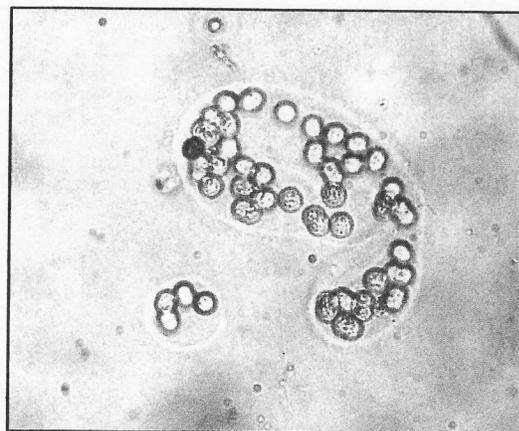
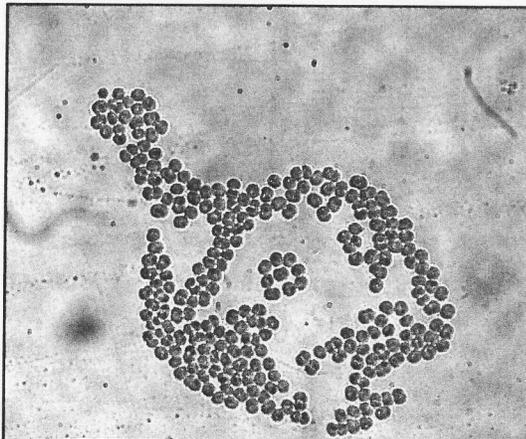
Ms. Christine Bladanza
Lakes Community
5501 South Lake Shore Drive
Tempe, Arizona 85283

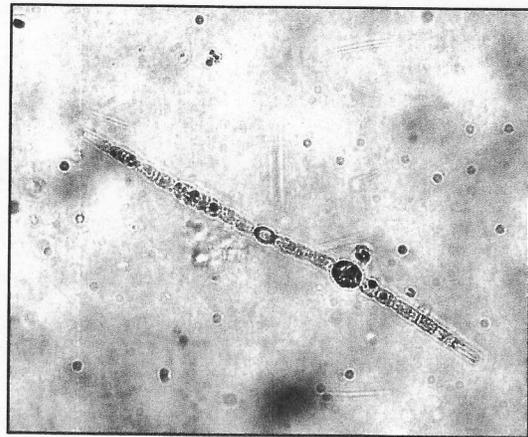
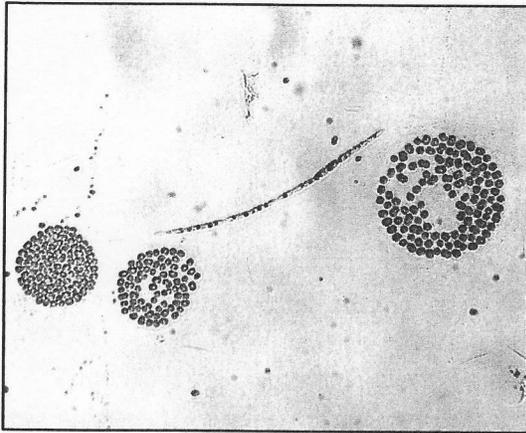
Ref: Water Analysis October 7, 2013
Lake film identification

The following report documents conditions at the Lakes, Tempe on 07 October 2013 and early December 2013.

The water is in the early stages of a blue-green algae bloom. The two forms are *Microcystis* (a colony) and *Anabaena* (a filament). It is not golden algae (*Prymnesium parvum* or related species). The algae are causing cloudy/murky swirls of algae just below the water surface. The lake is not very green at this time. However, the algae will likely increase in size and numbers; the colonies will get larger and the filaments longer. As they accumulate chlorophyll, they may become much greener. They can be treated with algaecide, but it is uncertain at this time, if they are causing an aesthetic issue that requires the treatment expense.

Photographs of the algae are shown below at 200X and 400X magnification.





A follow up analysis in early December confirmed that reported scum on the lake surface was accumulated *Microcystis*. The colonies accumulated at the end of the lake system, immediately above the recirculation pumps. A resident-provided photograph is shown below.



Respectfully,

Frederick A. Amalfi, Ph.D., C.L.M.