Indian Lake, Cuba Missouri, Update on LFA Progress

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In the upcoming weeks, RLS will be providing the Indian Hill Lake Property Owners Association with a detailed scientific report with all baseline and post-LFA implementation data. The major findings of this report are very positive and include the following conclusions:

- 1. The mean total phosphorus (TP) has declined over time, which is favorable
- 2. The mean soluble reactive phosphorus (SRP) has also declined with time, which is favorable
- 3. The mean Secchi transparency (water clarity) has increased with time, which is favorable
- 4. The mean dissolved oxygen (DO) has increased with time, which is favorable
- 5. The mean conductivity has declined with time, which is favorable
- 6. The mean total Kjeldahl nitrogen (TKN) has declined with time, which is favorable
- 7. The mean total dissolved solids (TDS) has declined with time which is favorable
- 8. The mean dissolved inorganic carbon (DIC) has increased with time, which is neutral
- 9. The mean pH has declined with time, which is neutral
- 10. The mean water temperature has slightly increased with time, which is neutral
- 11. The mean chlorophyll-a has increased with time, and this could be beneficial since it corresponds with increasing favorable green algae and diatoms
- 12. The mean total inorganic nitrogen has slightly increased, but is still within favorable limits
- 13. The mean HAB concentration and biovolume have both declined with time, which is favorable
- 14. The mean total algal concentration has remained similar and this is favorable and indicates that newer favorable forms of algae are replacing HAB species over time.

Scientists from RLS are in the process of further analyzing this data with statistics and will make future recommendations based on these findings. Overall, the data advocates for continued use of the LFA technology along with bioaugmentation (the added use of enzymes and beneficial microbes).

As time advances, it will become very important for individual lakefront owners to avoid the use of all lawn fertilizers and properly pump and care for septic tanks and drain fields. The continued reduction of nutrients to the lake will allow the LFA system to continue to deliver positive results over time, which will enhance the water quality of Indian Lake over time and provide a continued, worthwhile investment.