

DEP 2024 HAB Lake Management Guidance Workshop

Agenda

Virtual (link will be sent to registrants)

April 23, 2024

9:00 AM – 12:00 PM



Welcome/ Introductions

9:00 AM – 9:10 AM

- HABs in NJ– Brief overview of what defines HABs in NJ. What are considered HABs and what are not. (Victor Poretti, Director, Division of Water Monitoring, standards and Pesticide Control, NJDEP)

Components of a HAB Management Plan

9:10 AM – 9:25 AM

- General overview and important items to take into consideration when developing the plan. Mike Danko, Assistant Director of Extension, NJ Sea Grant Consortium

Monitoring for HAB Related Water Quality

9:25 AM – 9:55AM

- Recommendations for physical and chemical parameters with a focus on nutrients, extending sampling frequency and other items to effectively monitor conditions that lead to the development/persistence of HABs. Jason Adolf, Ph.D., Professor of Biology and Marine Science, Monmouth University and Jennifer Graham, Ph.D., Chief, Integrated Science Branch U.S. Geological Survey

Monitoring for HABs

9:55 AM – 10:25AM

- Field measurements, laboratory measurements and innovative technologies to determine the cyanobacteria composition and presence/absence of cyanotoxins. Meiyin Wu, Ph.D., Director, NJ Center for Water Science and Technology, Professor, Montclair State University

Break

10:25 AM – 10:45 AM

Actions to Control HABs

10:45AM – 11:45 AM

- Covering recommended BMPs, restoration techniques, and use of chemical/pesticide treatments with a focus on meeting long term goals. Steve Souza, Ph.D., Owner, Clean Waters Consulting LLC
- Nutrient inactivation methods. Steve Souza, Ph.D., Owner, Clean Waters Consulting LLC
- Watershed measures, biochar, floating islands. Fred Lubnow, Ph.D., Senior Technical Director of Ecological Services, Princeton Hydro
- Managing internal loading via aeration and oxygenation methods, etc., - Robert Kortmann, Ph.D., Senior Consultant-Applied Limnologist, GZA GeoEnvironmental, Inc

NJDEP Resources/ Questions

11:45AM – 1200

- NJDEP phycocyanin meter loaner program, water quality data and funding. Integration with the Water Quality Management Plan. (NJDEP Staff)
- Question and Answer Session