# Understanding Nutrient Issues Affecting Ohio's Inland Lakes

The Watershed Academy

**Wednesday, November 30, 2016**                                                     **Two-hour Webcast**

**Eastern:** *1:00p.m.–3:00p.m.*    **Central:** *12:00p.m.–2:00p.m.*    **Mountain:** *11:00a.m.–1:00p.m.*    **Pacific:** *10:00a.m.–12:00p.m.*

Please join us for a webcast presenting information on the evolution of Ohio's efforts to restore and protect inland lakes from nutrient related impairments through the strategic collection and use of data along with engagement of appropriate watershed stakeholders.

USEPA is providing technical assistance to Ohio to advance the State's nutrient reduction efforts, specifically reducing the occurrence and impact of harmful algal blooms in inland lakes and lakes that are sources of drinking water. Recently, Tetra Tech developed conceptual lake management plans for Kiser Lake and Lake Alma. Both lakes are managed by the Ohio Department of Natural Resources as part of the state park system.


Photo credit: Russ Gibson, Ohio EPA

Rick Wilson will discuss collaboration with Inland Lakes and drinking water program staff to prioritize lakes, recent steps to develop more robust lake management planning, and lessons learned at Grand Lake St. Marys and Buckeye Lake. Tetra Tech will discuss two case studies at Kiser Lake and Lake Alma and then tie these plans to lake management planning topics that can be applied in other states, including minimum data needs, defining the problems and causes in lakes, and the importance of adaptive management and long-term monitoring.

The webcast presentation will be posted in advance at https://www.epa.gov/watershedacademy/watershed-academy-webcast-seminars. Also, webcast participants are eligible to receive a certificate for their attendance.

## Expert Speakers:

**Rick Wilson, Environmental Specialist, Ohio Environmental Protection Agency, Columbus, OH –** Rick Wilson has 22 years of experience at the Ohio Environmental Protection Agency (Ohio EPA) as an Environmental Specialist in the Division of Surface Water (DSW). Rick has also served as the agency lead on several inland lakes initiatives with U.S. EPA and Tetra Tech since 2010. Rick is the agricultural expert in Ohio EPA's Nonpoint Source program and is technical lead for Ohio EPA's Concentrated Animal Feeding Operation (CAFO) regulatory program. Rick's work includes serving as the Division's liaison with agricultural stakeholders and related organizations throughout Ohio.

**Shannon Brattebo, Environmental Engineer, Tetra Tech, Spokane, WA –** Shannon Brattebo has over 17 years of experience as an environmental engineer with Tetra Tech. Shannon's work has focused on lake and reservoir water quality, restoration, and management both in the Pacific Northwest and across the nation. Shannon has been a member of NALMS since 2001, is currently the NALMS Region 10 Director, and is a past board member of the Washington Lakes Protection Association.

**Dr. Harry Gibbons, Scientist, Tetra Tech, Seattle, WA –** Dr. Harry Gibbons has 43 years of experience leading management and restoration programs for over 250 lakes/reservoir and 35 stream and river systems. He has developed and implemented several watershed and in-lake activities for techniques like phosphorus inactivation (alum), dredging, hypolimnetic aeration, aeration and circulation, AIS management, and integrated aquatic plant management. Harry has served NALMS twice on the board of directors (1992-1994 & 2004-2006) and was NALMS President in 2009. Harry received the NALMS Secchi Disk Award in 2012.

**Registration:** You must register in advance to attend this webcast. Register at the Watershed Academy Webcast website at https://www.epa.gov/watershedacademy/watershed-academy-webcast-seminars.

**Questions?** Please contact Stefanie Gera at stefanie.gera@tetratech.com.