

From: Drake, Wendy
Sent: Wednesday, May 28, 2014 2:39 PM
To: Crooks, Jennifer
Subject: HABs info

Hi, Jennifer.

Here are a few HABs websites. Both Ohio and Illinois have taken samples at systems and sources where problems have been reported, and I'm not sure about the other states.

U.S. EPA cyanobacterial HABs website: <http://www2.epa.gov/nutrient-policy-data/cyanobacterial-harmful-algal-blooms-cyanohabs>; Lesley D'Anglada from the EPA Office of Water's Office of Science and Technology also sends out HABs news updates that people can sign up for by contacting her (see forwarded e-mail below)

Ohio EPA's HABs—information for PWSs website: <http://epa.ohio.gov/ddagw/HAB.aspx>; Ohio EPA has a PWS HAB response strategy (<http://epa.ohio.gov/Portals/28/documents/HABs/PWSHABResponseStrategy.pdf>) in which they list Heather Raymond as the PWS HAB Coordinator—her contact information is heather.raymond@epa.ohio.gov and (614) 644-2911. Ohio has experienced the most problems in our region.

Illinois EPA's HABs and algal toxins website: <http://epa.state.il.us/water/algal-bloom/index.html>; Illinois just launched this program last summer

IDEM's blue-green algae website: <http://www.in.gov/idem/algae/>

MDH's blue-green algal blooms and microcystin website:
<http://www.health.state.mn.us/divs/eh/hazardous/topics/bluegreenalgae.html>

WDNR's blue-green algae website: <http://dnr.wi.gov/lakes/bluegreenalgae/?a=1>

Please let me know if you have any questions.

Wendy

Wendy Drake | U.S. EPA, Region 5, Water Division, Ground Water and Drinking Water Branch
 77 West Jackson Boulevard, WG-15J | Chicago, IL 60604 | 312-886-6705 | drake.wendy@epa.gov

From: DAnglada, Lesley
Sent: Tuesday, May 27, 2014 5:48 AM
To: DAnglada, Lesley
Subject: HABs News - May 2014

News

EPA's Webinar: Prevention, Control and Mitigation of Cyanobacteria and Cyanotoxins

EPA's Office of Science and Technology conducted a webinar on Wednesday, May 14th, on the Prevention, Control and Mitigation of cyanobacteria and cyanotoxins. The presentations are posted on the Control and Treatment tab at the CyanoHABs web page: <http://www2.epa.gov/nutrient-policy-data/cyanobacterial-harmful-algal-blooms-cyanohabs> and the audio recording is available here: <https://epa.connectsolutions.com/pl17lociighi/>

House Science Panel OKs Bill to Enhance Research, Control Efforts for Algae Blooms

A House committee approved by voice vote May 21 the *Harmful Algal Bloom and Hypoxia Research and Control Amendments Act* (S. 1254) to authorize a national strategy of research, mitigation and control for algal blooms that kill

fish and shellfish by depleting oxygen in marine and freshwater bodies. The bill was approved by the Senate in February. It still must make it through the House Natural Resources Committee before it can go to the full House.

http://ncws.bna.com/dcln/DELNWB/split_display.adp?fedfid=47002944&vname=donnotallissues&jd=a0f0u7h9x7&split=0

Taking the fight to Lake Erie algal blooms before they reach Western New York

Government officials and environmentalists in Buffalo aim at stopping toxic blue-green algae in Lake Erie before it reaches Western New York. They called for a two-pronged federal approach involving the U.S. Environmental Protection Agency and U.S. Department of Agriculture.

<http://www.buffalonews.com/city-region/environment/taking-the-fight-to-lake-erie-algal-blooms-before-they-reach-western-new-york-20140505>

Sea Otter's Scourge

Microcystin stalks marine mammals off the coast of California and kills dogs and cats further inland.

<http://www.the-scientist.com/articles/view/articleNo/39864/title/Sea-Otter-s-Scourge/>

Climate change brings mostly bad news for Ohio

Scientists delivered a mostly negative forecast for how climate change will affect Ohioans during the next year or so, and well beyond

<http://phys.org/news/2014-05-climate-bad-news-ohio.html>

Blue-green algae in Kansas water

Warnings and Advisories in place from the previous sampling season.

<http://kansasfirstnews.com/2014/05/22/blue-green-algae-in-kansas-water/>

New Research

Land use patterns, ecoregion, and microcystin relationships in U.S. lakes and reservoirs: A preliminary evaluation (attached)

John R. Beaver, Erin E. Manis, Keith A. Loftin, Jennifer L. Graham, Amina I. Pollard, and Richard M. Mitchell

Harmful Algae, Volume 36, June 2014, Pages 57-62, ISSN 1568-9883

<http://www.sciencedirect.com/science/article/pii/S1568988314000444>

Survival, growth and toxicity of *Microcystis aeruginosa* PCC 7806 in experimental conditions mimicking some features of the human gastro-intestinal environment

Mara Stefanelli, Susanna Vichi, Giuseppe Stipa, Enzo Funari, Emanuela Testai, Simona Scardala, Maura Manganelli,

Chemico-Biological Interactions, Volume 215, 25 May 2014, Pages 54-61, ISSN 0009-2797

<http://www.sciencedirect.com/science/article/pii/S0009279714000830>

Rapid quantitative analysis of microcystins in raw surface waters with MALDI MS utilizing easily synthesized internal standards

Amber F. Roegner, Macarena Pérez Schirmer, Birgit Puschner, Beatriz Brena, Gualberto Gonzalez-Sapientza, Toxicon,

Volume 78, February 2014, Pages 94-102, ISSN 0041-0101

<http://www.sciencedirect.com/science/article/pii/S0041010113004637>

Cyanotoxin occurrence and potentially toxin producing cyanobacteria in freshwaters of Greece: A multi-disciplinary approach

Spyros Gkelis, Nikos Zaoutsos, Toxicon, Volume 78, February 2014, Pages 1-9, ISSN 0041-0101

<http://www.sciencedirect.com/science/article/pii/S0041010113004388>

Investigating the production and release of cylindrospermopsin and deoxy-cylindrospermopsin by *Cylindrospermopsis raciborskii* over a natural growth cycle