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John Kasich, Governor 77S High St. Columbus Ohio, 43215

Honorable Sir,

The information below is submitted for your consideration. Craig Butler, your Director of the Ohio EPA has responded to a similar notification and I am heartened to notice that he has latterly appointed May Jo Klei as the new manager of the HAB section. Realizing that you are quite busy I have included supporting documentation "Waterbody" to aid in understanding the issue. The problem faced by the Bowling Waterplant was well managed, however it could have ended in death, particularly of dialysis patients. Please refer to the article from the New England Journal of Medicine listed in the bibliography abut an incident in Brazil which resulted in the death of ½ of the patients in a dialysis unit from microcystin induced fulminant liver failure when the water plant system there failed. Microcystin is a serious threat to human life.

# "IMPAIRED" DESIGNATION OF MAIN STEM OF MAUMEE REQUESTED

## I. Back ground

The Maumee River Main Stream has undergone no rigorous study of microcystin toxin levels, nor of the variably increased polluting levels of phosphorus supporting microcystis proliferation. Despite increasing problems with these phenomena, no point or non point sources have been identified, yet it is known that the number of CAFO and subCAFO contributors of nutrient containing manure continue to proliferate and flow into the Maumee 4.2 million acre watershed.<sup>1</sup>

# II. Summary of one segment of recent data:

### MICROCYSTIN AND MAUMEE RIVER IMPAIRMENT

Data is derived from Ohio EPA excel spread sheet<sup>2</sup> from data collected by the Bowling Green Water plant and the Maumee River Intake which indicate elevated

levels of microcystin that make the River unsuitable for recreational use or a source of public drinking water.

(Between 9/4/14 and 11/23/15 microcystin was elevated in waterbody intake, reservoir intake or reservoir on 28 occasions one measurement at 20,000µgm/L.)<sup>2,3</sup>

Maumee Water body Microcystin Intake was elevated on 4 occasions: 9/4/14, 10μgms/L, 9/8/14, 9.9μgms./L, 9/14/14 10μgms./L, 9/30/15 >15μgms./L., the average of these samples is at least 11.22 μgms./L.

Note well: Ohio EPA microcystin drinking water advisory: >.3μgms/L do not drink children under 6 and other special groups, >1.6μgms. /L μ all children and adults, and >6μgms./ L not safe for recreation<sup>3,4</sup>

#### III. Conclusion

It appears that the Maumee River is not attaining its use designation as required by the provisions of the Federal Clean Water Act. The Maumee River should be placed on the 303(d) list as impaired for recreational use and as a source of public drinking water. TMDL for this watershed does not address these impairments in the main stem of the River.

The citizens were <u>not</u> informed of the problem. No one was advised not to drink or use the river for recreational purposes. One finds no evidence that further study and remediation is planned—to the peril of the taxpaying citizenry.

## We ask for timely appropriate action.5

- 1. The reader is encouraged to review the accompanying more detailed fact review fact related document which includes a bibliography. We are only in the beginning phase of the cyanobacterial controversy which is international in scope. What we learn here in the interest of the public good my have positive value far beyond this geographic region.
- 2. .www.Ohio Algal Toxin Results from Lake Erie, State Park Beaches, Inland Lakes, and Public Water Supplies 2010 to Present (interactive excel spread sheet subheading)
- 3. The Bowling Green Water plant is however, unique. Because of problems with nitrogenous and atrazine pollution and threats to public health from Maumee River water, Bowling Green elected more than a decade ago at great expense to invest in what is likely the most sophisticated water treatment in Ohio at great cost. The microcystin levels noted above would have overwhelmed the usual water treatment plant.
- 4. wwwapp.epa.ohio.gov/gis/mapportal/hab.html

5. Is it not the duty of good government to protect the health and welfare of its citizenry?

Respectfully submitted,

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