
THE POTOMAC RIVER
BASIN DRINKING WATER
SOURCE PROTECTION
PARTNERSHIP PRESENTS:

EMERGING CONTAMINANTS AND WATER SUPPLY

*An Education and
Discussion Workshop on
Emerging Contaminants for
Drinking Water Suppliers and
Governmental Agencies in
the Potomac River Basin*

Monday, September 19, 2005

Byrd Auditorium

U.S. Fish and Wildlife Service's
National Conservation Training Center
Shepherd Grade Road
Shepherdstown, West Virginia

OVERVIEW

Emerging contaminants include pharmaceuticals, personal care products, and endocrine disrupting chemicals (EDCs) that have been discovered in surface and/or ground water but are not yet well-understood. Emerging contaminants have been suggested as a possible cause of abnormalities, including intersex characteristics, found in some fish in the Potomac basin. However, very little is known about the possible health risks to humans from the low concentrations of emerging contaminants that may be found in raw drinking water sources. Furthermore, little data exist on the prevalence of many emerging contaminants, due to both a lack of analytical methods and also the sheer number of compounds that have been suggested as possible contaminants.

In this workshop, we will learn about emerging contaminants as they relate to drinking water supply. We will hear from experts on what we know today about emerging contaminants, what is currently being done to better understand these constituents, and what our management and treatment options may be. The workshop will conclude with a discussion period with the workshop's speakers to begin identifying a "road map" for continuing this process in the Potomac River basin.

This workshop is provided at no cost to attendees through funding made available by the U.S. EPA and the West Virginia Department of Health and Human Resources. Lunch is included at no charge for the first 100 registrants, so please register early.

WHO SHOULD ATTEND?

- Public drinking water suppliers
- Government agencies responsible for implementing the Safe Drinking Water Act
- Government agencies involved in research on emerging contaminants or interested in learning more about them

ABOUT THE PARTNERSHIP

The Potomac River Basin Drinking Water Source Protection Partnership, comprised of regional drinking water suppliers, the U.S. EPA, the Interstate Commission on the Potomac River Basin (ICPRB), and state source water protection agencies, was formed in 2004 to address water quality concerns in the Potomac River Basin from a drinking water perspective.

The objectives of the Partnership include identifying regional source water protection priorities, coordinating efforts to protect multiple water sources, and promoting information sharing among the many organizations working towards enhanced source water protection. More information on the Partnership can be found at:

http://www.potomacriver.org/water_quality/safewater.htm

AGENDA

Registration 8:00 – 8:30

8:30-10:15

Opening and Welcome

Occurrence, Transport, Fate, & Effects

Pharmaceuticals and Other Emerging Contaminants in Water Resources of the U.S.
Dana Kolpin, Ph.D., USGS

Overview of USGS Studies on Pesticides and Other Toxic Contaminants in the Potomac River Basin
Cherie Miller, Ph.D., USGS

Pharmaceuticals and EDCs in Water Supplies – Cause for Concern?
David Orvos, Ph.D., Sweet Briar College

Break 10:15-10:30

10:30-12:30

Occurrence, Transport, Fate, & Effects

Presence of Estrogen Hormones and Antibiotics in the Environment
Rominder Suri, Ph.D., Villanova University

Sampling for Potential Endocrine-Disrupting Compounds, South Branch of the Potomac River, Cacapon River, and Williams River, West Virginia
Douglas Chambers, USGS

Biological Effects of EDCs on Fishes
Vicki Blazer, Ph.D. and Luke Iwanowicz, USGS*

* presenter of jointly authored paper

Public Health

Environmental Questions and Community Concerns: The Role of Public Health Research
Alan Ducatman, M.D., WVU School of Medicine and Patricia Colsber, Ph.D., WV Dept of Health & Human Resources*

Lunch 12:30 – 1:15

1:15 – 2:45

Risk Communication

Emerging Contaminants: Risk Communication Strategies for Utilities
Lisa Ragain, George Washington University

Regulatory and Legal

What are the U.S. EPA's Programmatic/Regulatory and Research Interests in Endocrine Disruptors?
Elaine Francis, Ph.D., U.S. EPA

Providing Water: Risk of a Litigation Flood?
Barbara Little, Jackson Kelly PLLC

Break 2:45-3:00

3:00 – 5:30

Best Management and Treatment

Reducing Pharmaceuticals in Drinking Water Sources
Dana Heriegel, U.S. EPA

Emerging Contaminants: What Happens during Potable Water Treatment?
Kim Linton, AnnvaRF

Round Table Discussion with Speakers

Including presentation of a draft “road map” for identifying action items.
Malcolm Pirnie, Inc.

Closing 5:30

DIRECTIONS

The National Conservation Training Center (NCTC) is located along the Potomac River in Shepherdstown, West Virginia.

For detailed directions, please consult the NCTC website:

<http://training.fws.gov/mapdir.html>

LODGING

A limited number of rooms have been reserved at **NCTC** for \$111 per night, including dinner and breakfast. Please contact Julie Kiang (301-984-1908 ext. 114 or jkiang@icprb.org) to reserve one of these rooms.

Other lodging options are also available in the area. Please contact Julie Kiang for more options or consult NCTC's list of nearby lodging:

<http://training.fws.gov/hotel.html>

MORE INFORMATION

For additional information, please contact Martin Chandler, Workshop Chair, at (301) 206-8052 or mchandler@wsscwater.com.

REGISTRATION

Name: _____

Title: _____

Organization: _____

Address: _____

Phone Number: _____

Email Address: _____

Special Dietary Needs: _____

To register, please fax this form to:

Julie Kiang
Interstate Commission on the Potomac River Basin
(301)-984-5841

or send an email with the requested information and “EC Registration” in the subject to: jkiang@icprb.org