



Potomac River Basin
Drinking Water Source Protection Partnership
2012 Annual Meeting Summary
November 14, 2012
DC Water – Bryant Street Pumping Station

Attendees

Utilities

City of Falls Church:
Rodney Collins
Brenda Creel

City of Rockville:
Judy Ding

DC Water:
Jessica Edwards-Brandt
Charles Kiely
Sudhir Murthy
Maureen Schmelling
Charles Sweeney
Fikremariam Tesfai

Fairfax Water:
Traci Kammer Goldberg
Chuck Murray
Greg Prelewicz
Niffy Saji
Joel Thompson

Loudoun Water:
Beate Wright

Town of Leesburg, Va.:
Russell Chambers

Washington Aqueduct:
Julia Battocchi
Shabir Choudhary
Tom Jacobus
Anne Spiesman

WSSC:
Plato Chen
Mohammad Habibian

State and Local Government

DC Dept. of the Environment:
Shah Nawaz

MD Dept. of the Environment:
Saeid Kasraei
Robert Peoples
Lyn Poorman

PA Dept. of Env. Protection:
Pat Bowling

VA Department of Health:
John Aulbach

WV Dept. of Health and
Human Resources:
Bill Toomey

Federal and Regional Agencies

EPA Region 3:
Bill Arguto
Vicky Binetti
Ellen Schmitt

EPA HQ:
Marjorie Copeland

ICPRB:
Karin Bencala
Becki Wolf

MWCOG:
Steve Bieber

USGS:
Cherie Miller (MD-DE-DC)

Other

Aqua Vitae:
Lisa Ragain

Salter Mitchell:
Peter Mitchell
Meisha Thigpen

Univ. of the District of
Columbia:
Tolessa Deksissa

The 2012 Annual Meeting was held at DC Water's Bryant Street Pumping Station. Many thanks to Sarah Neiderer for assisting with the meeting planning and to Dr. Sudhir Murthy for organizing the information session.

2012 Workgroup Activities and 2013 Priorities

Each workgroup had drafted an activity report and a set of priorities for review by the Partnership members prior to the Annual Meeting. At the meeting the workgroup chairs reviewed these items and discussed other possible activities with participants. Below are the workgroup activity summaries and priorities with a summary of any discussion that took place at the meeting.

Urban Issues – Greg Prelewicz, Fairfax Water

Activities Completed in 2012

- Updated a comparison of stormwater management requirements in the Potomac River basin states. **(Achieves 2012 objective)**
- Presented deicing webinar to interested stakeholders and made the presentation materials publically available on the web. **(Achieves 2012 objective)**
- Worked with the Agricultural Issues workgroup to conduct a preliminary review of several state Watershed Implementation Plans (WIP) to identify where proposed actions relate to source water quality in the Potomac basin. **(Achieves 2012 objective)**
- Continued tracking of regional programs and initiatives that may impact urban source water protection efforts in the Potomac basin, including TMDLs on the Potomac River, the Chesapeake Bay TMDL, State WIPs, and Clean Water Act Reauthorization for the Chesapeake Bay Program. **(Achieves 2012 objective)**
- Participated in a variety of webinars related to stormwater and urban wet-weather related programs.

2013 Work Plan

- Update the Road Salt and Deicer Information section on the Partnership's website. Expand the information currently available to include practices that private owners (office buildings, commercial parking lots, etc.) and homeowners can do to reduce the impact of road salt activities on our waters.
- Meet with State Stormwater Agencies in basin states to discuss their stormwater programs and common issues of interest in source water protection and stormwater management BMPs.
- Develop and maintain a list comparing State Water Quality Standards (WQS) in the Potomac watershed. Maintain a schedule for tracking each State's water quality standards review process, including the dates for proposed revisions and a schedule of public comment periods. The workgroup will draft talking points that can be used in discussion with each State to emphasize common issues of interest in better integrating public water supply standards into each state's WQS. The workgroup will meet with at least two State's WQS agency staff during the year.
- Continue efforts with Agricultural Issues workgroup in identifying areas of source water protection emphasis in various Potomac basin state's Chesapeake Bay TMDL WIPs.
- Sponsor or co-sponsor at least one informational session during a quarterly meeting of the Partnership on an urban issues related topic.

Discussion

None

Agricultural Issues – Ellen Schmitt, EPA Region III

Activities Completed in 2012

- Developed a draft outreach strategy for the workgroup. **(Achieves 2012 objective)**
- Conducted a preliminary review of several state Watershed Implementation Plans (WIP) with the Urban Issues workgroup to identify where proposed actions relate to source water quality in the Potomac basin.
- In collaboration with the Emerging Contaminants workgroup, hosted USGS speaker John Young for a talk regarding endocrine disruptors from land use activities in the Potomac. **(Furthers 2012 objective)**
- Provided information and guidance to an EPA contractor regarding nutrient messaging in the Potomac. **(Furthers 2012 objective)**
- Summarized the population served by public water systems per county in each Potomac state.
- Created a variety of maps on agricultural use in the Potomac basin.
- Initiated discussions with other Potomac organizations regarding mutual water quality goals. **(Furthers 2012 objective)**
- Analyzed and reviewed phosphorus data collected in the lower Potomac River.
- Participated in a variety of webinars related to agriculture and water quality.
- A workgroup member provided a presentation to the USDA Pennsylvania State Technical Committee on Pennsylvania's Source Water Protection Programs and the potential for collaboration to protect drinking water sources.

2013 Work Plan

- Finalize the workgroup's outreach strategy.
- Plan an agriculture-focused information session for a 2013 quarterly meeting.
- Increase connection and communication with state Natural Resources Conservation Service (NRCS) offices and personnel.
- Determine joint goals and areas of collaboration with other Potomac agencies and organizations.

Discussion

Marjorie Copeland, EPA Headquarters, mentioned a new tool from the Source Water Collaborative to help source water professionals reach out to USDA State Conservationists. The tool can be found [here](#). Another tool is being developed to help guide outreach to local soil and conservation districts.

Chuck Murray, Fairfax Water, asked about the mapping of land use and discharge locations that had been started earlier in the year. This was being worked on by an ad hoc Water Quality Data group. The group has not met in a while but will continue its efforts in the next year. Land use information has been provided to the Agricultural Issues workgroup to help identify areas that might be of particular interest. Murray is specifically interested in better understanding the biomass pulse that is experienced each fall. The Partnership is also interested in posting non-sensitive data layers to the website for access and use by all members.

Reaching Out – Karin Bencala, ICPRB

Activities Completed in 2012

- Helped to conduct a meeting that reached out to 11 smaller utilities in the watershed to inform them about the partnership and bring greater visibility to source water protection issues. **(Achieves 2012 objective)**

- Presented to and held meetings with outside organizations that included discussion of the Partnership's efforts, including at presentations ICPRB made to international delegations. **(Achieves 2012 objective)**
- Prepared 2011 Annual Report. **(Achieves 2012 objective)**
- Kept membership informed of news items and other information.
- Maintained the Partnership's website.
- Served as a resource for reporters on source water protection and related topics.

2013 Work Plan

- Continue efforts to involve more public water systems in source water protection through meetings and media contact.
- Coordinate with various Partnership workgroups to maintain and upgrade Partnership web presence.
- Continue to pursue contact with other federal agencies having mutual interests in the Potomac watershed.
- Continue to promote DWSP during ICPRB water resources outreach efforts.
- Produce 2012 Annual Report.
- Produce outreach and educational materials needed by the membership.

Discussion

The workgroup will also assist the workgroup chairs in scheduling a meeting with watershed groups that may share common water quality interests with the Partnership.

Early Warning and Emergency Response – Shabir Choudary, Washington Aqueduct

Activities Completed in 2012

- Helped EPA's contractor, Horsely Witten, design a Potomac River functional spill exercise in which all DWSP members participated. Following the exercise, the EW/ER workgroup and Horsely Witten identified a list of follow-up actions. **(Achieves 2012 objective)**
 - Create list of hazardous materials which are transported through the National Capital Region. Status: COG has contacted CSX for a list.
 - Develop alternate communication plan for regional conference calls. Status: Work will begin in 2013.
 - Develop public notification content templates. Status: Need to identify lead agency.
 - Update regional utility contact information. Status: Completed for 2012 (annual task).
 - Create a standard monitoring sheet for compiling and distributing sampling data during an incident. Status: Work will begin in 2013.
 - Explore options for a web-based central repository used for sharing information during an incident. Status: Had a presentation at quarterly meeting to learn about GDX system.
 - Adjust how information from ICPRB is presented. Status: ICPRB has reviewed options with end users and updated email formatting. Further improvements are likely.
 - Develop a plan for utilities to share monitoring information with the ICPRB. Status: Work will begin in 2013.
 - Determine how Early Warning Systems (Biofish Monitors and Hach Monitors) can be used when intakes are shut. Status: Work will begin in 2013.
 - Review utility membership in RICCS System. Status: Membership list was reviewed and distributed at the summer quarterly meeting. Annual reminders will be sent to Partnership.
 - Involve Health Departments, Primacy Agencies, and Emergency Management Agencies in Water Sector Planning. Status: Work will begin in 2013.

- Increase the number of utilities who receive National Response Center (NRC) messages. Status: Reviewed who receives messages. EPA R3 is working to develop a system to forward Potomac-related NRC messages it receives.
- Worked with Colonial Pipeline’s risk management group to set up a meeting at which EW/ER members can learn more about the company’s integrity management systems. That meeting is still pending, probably to occur in calendar year 2013. **(Achieves 2012 objective)**
- Members of the workgroup participated in Coast Guard Area Committee meetings. The CG Area Committee includes representatives of the group of government agencies that respond to emergency events such as spills. The EW/ER workgroup is on their “interested parties” list.

2013 Work Plan

- Continue communications with Colonial Pipeline to learn more about the company’s integrity management program.
- Continue working on the spill exercise improvement planning actions noted above.
- Continue participation in the Coast Guard Area Committee and arrange for a briefing for DWSPP members by the Coast Guard about their new Geographic Response Plan.

Discussion

There was a lot of interest from participants in preparing for an event during which communication systems (phone, internet) are not functioning. Vicky Binetti, EPA Region III, suggested focusing a future exercise on this issue. This topic is of interest to many of the basin’s utilities and response agencies. Some have already taken steps to prepare for such a scenario. For instance, VDH has purchased satellite phones and has a written plan for how and when to communicate if the regular systems are down. Fairfax Water has purchased additional two-way radios. Metropolitan Washington Council of Government’s Steve Bieber mentioned that many in the metro area are investing in interoperable equipment to improve communications but that nothing has been done to ensure communications with systems further upstream. He suggested that the workgroup make an effort to learn from all the planning that is going on in preparation for the 2013 inauguration as the communication systems will be reviewed in detail.

Emerging Contaminants – Patrick Bowling, Pennsylvania Department of Environmental Protection **Activities Completed in 2012**

- Workgroup members participated in a variety of roles in the following Water Research Foundation (WaterRF) projects to further our understanding of contaminants of emerging concern (CECs):
 - Project 4169, “Water Utility Framework for Responding to Emerging Contaminant Issues.” **(Achieves 2012 objective)**
 - Project 4260, “EDC/PPCP Benchmarking and Monitoring for Drinking Water Utilities,” which is developing statistical tools and protocols that water utilities can use to design and implement monitoring programs for endocrine-disrupting compounds (EDCs) and pharmaceuticals and personal care products (PPCPs) within a watershed.
 - Project 4386, “Decision Support Program for Reducing EDCs and PPCPs in Drinking Water,” which includes source protection, treatment, and public communication in a decision support tool for utility use.
 - Project 4387, “Development of a Water Utility Handbook on EDCs/PPCPs for Public Education and Consumption.”
 - Project 4463, “Broadening the National Dialogue on Contaminants of Emerging Concern and Public Health,” which was funded in 2012 to foster interaction with public health professionals and other stakeholders in the discussion about the risks of CECs in drinking water, to bring the

public health perspective to inform utility communications on CECs, and to promote interdisciplinary collaborations.

- WSSC led a major shift in WaterRF's emerging contaminants research priorities to a more holistic approach that will "evaluate the current paradigm used in the U.S. to manage CECs, and identify and evaluate alternative paradigms, with an emphasis on collaboration between multiple sectors, to manage human exposure to CECs." **(Furthers 2012 objective)**
- Workgroup members spoke at webinars for various groups on topics such as linkages between source water protection and CECs and on USGS pharmaceutical studies and programs. Workgroup members also participated in public meetings and webinars on a variety of CEC topics including hexavalent chromium, perchlorate, hydraulic fracturing, advanced treatment for CECs, etc. **(Furthers 2012 objective)**
- Workgroup utility partners began developing new sampling programs in their drinking water distribution systems in preparation for compliance with EPA's Unregulated Contaminant Monitoring Rule (UCMR) 3, under which occurrence data will be collected for 30 contaminants suspected to be present in drinking water but that do not have health-based standards. Some also continued monitoring for non-regulated compounds in voluntary programs. For example, Fairfax Water continues to monitor for selected EDC/PPCPs on a quarterly basis. In 2011/12 the parameter list was restructured to include new compounds of interest based on innovative research and updated analytical methodology. Currently a project is underway to depict the data in a more customer-friendly and informative style on the Fairfax Water website. **(Furthers 2012 objective)**
- Workgroup members worked to improve proposed legislation in the District of Columbia. In fall 2012, the DC Council's Committee on Environment, Public Works and Transportation unanimously approved the updated Water Quality Assurance Amendment Act of 2012, which specifically addresses CECs. **(Furthers 2012 objective)**
- With the Agricultural Issues workgroup, co-hosted a speaker on relationships between endocrine disrupting compounds in streams and land use activities in the Potomac at a quarterly DWSP meeting and in arranging for a panel on research to identify the sources of EDCs at the 2012 Annual Meeting. **(Furthers 2012 objective)**
- A workgroup member sifted through NPDES data provided by EPA, trying to determine the location of pharmaceutical manufacturers and any associated discharges. There is one true pharmaceutical manufacturing plant, a Merck plant near Elkton, Virginia, and there are 18 other dischargers in the basin whose waste streams may contain pharmaceuticals and other EDCs (e.g., medical labs, fish hatcheries, nursing schools). **(Furthers 2012 objective)**
- Began preliminary planning for an Emerging Contaminant workshop for Partnership members to be held in late 2013 or 2014. The group determined that the workshop objective will be to identify activities that the DWSP and the Emerging Contaminants workgroup can take on to most effectively move forward on the topic of emerging contaminants in the Potomac River basin. **(Furthers 2012 objective)**
- Tracked status of federal legislation relating to emerging contaminants and Drug Enforcement Administration (DEA) rules on disposal of controlled substances by non-registrants. In conjunction with ICPRB, COG and others, promoted DEA national take-back events in April and September. **(Furthers 2012 objective)**

2013 Work Plan

- Continue tracking legislation on emerging contaminants.
- Continue tracking significant research on emerging contaminants.
- Continue to support Water Research Foundation projects related to emerging contaminants through cash or in-kind contributions as individual agencies.

- Continue to track status of DEA rules for disposal of controlled substances and assist with promotion of future DEA take-back events.
- Verify and map locations of pharmaceutical and EDCs discharges identified within the basin for potential follow up with outreach.
- Plan and carry out a workshop for Partnership members on emerging contaminants in late 2013 or 2014.

Discussion

None

Disinfectant By-product Precursors – Mohammad Habibian, WSSC

2012 Update

A 2006 WaterRF project that compared the disinfection by-product formation potential of leachate extracted from leaves of maple, white oak, and pine trees, had shown an order of magnitude difference between them. The project had a significant shortcoming; it had not included the coagulation step in its assessment of the DBPs formation. To address this shortcoming, we noted the need for and suggested a follow up study to see if the significant differences between the DBP precursors level will remain with the coagulation step included in the assessment. This would have indicated whether the DBP formation potential can be minimized by tree selection at the watershed level. A proposal was submitted to WaterRF, but it was not funded due to funding limitations. However, WaterRF pursued two somewhat related projects which received major funding support from private parties. WSSC staff participated in the review of these two studies, hoping that the question of tree selection for control of DBPs will become part of either or both of them. The studies are now complete, but they did not address the tree selection question. This issue is of long-term interest to water utilities and is worth being pursued if and when funding becomes available.

Discussion

Given that these studies have wrapped up and that funding does not appear to be available for future study, Mohammad Habibian of WSSC thinks that this might conclude the work on DBPs for the Partnership unless there is something specific that members want to see done and are able to support.

Government Committee - Bill Toomey, West Virginia Department of Health and Human Resources
The Government Committee sponsored an outreach meeting in April with support from the Reaching Out workgroup to engage additional surface water systems in the basin. Thirteen systems attended the meeting. The committee is planning to hold another meeting in 2013, the format of which is still being decided.

Announcements

Lisa Ragain announced opportunities for utilities to participate in the Contaminant Warning Communication Training for Water Sector workshop. The [COG Calendar of Events](#) has more information and workshop dates.

Financial Update

An update of revenue and expenses as of September 30, 2012 was provided by K. Bencala. The handout with this information follows the meeting summary.

Passing of the Gavel

Fairfax Water's Chuck Murray, chair of the Metro Area Utility Committee passed the gavel and Partnership chair duties to the chair of the Government Committee, West Virginia Department of Health and Human Resources' Bill Toomey who accepted on behalf of Walt Ivey. Fairfax Water will remain the Metro Area Utility Committee chair for another year. Murray's leadership was essential to the Partnership's productive and successful year. Thank you!

Committee chair rotation – past and future.

Italics indicate tentative committee chair position. **Bold** indicates Partnership chair.

Year	Metro Utility Committee Chair	Government Committee Chair
2005	WSSC – Mohammad Habibian	ICPRB – Julie Kiang
2006	Fairfax Water – Chuck Murray	EPA – Jon Capacasa
2007	Washington Aqueduct – Tom Jacobus	EPA – Jon Capacasa
2008	Washington Aqueduct – Tom Jacobus	MDE – Bob Summers
2009	Washington Aqueduct – Tom Jacobus	MDE – Bob Summers
2010	WSSC – Teresa Daniell	VADEQ – Scott Kudlas/Jason Erikson
2011	WSSC – Mohammad Habibian	VDH – Wes Kleene
2012	Fairfax Water – Chuck Murray	West Virginia – Walt Ivey
2013	Fairfax Water – Chuck Murray	West Virginia – Walt Ivey
2014	<i>Washington Aqueduct</i>	<i>District of Columbia</i>
2015	<i>Washington Aqueduct</i>	<i>District of Columbia</i>
2016	WSSC	<i>Pennsylvania</i>
2017	WSSC	Pennsylvania

Information Session – Assessing the Impact of Anthropogenic Discharges on Endocrine Disrupting Chemicals in the Potomac River Watershed

This information session focused on a study to identify sources of endocrine disrupting chemicals in the basin followed the business meeting. The presentations and additional information will be available on the Partnership's website soon.

Presentations:

- Understanding sources, management, and impact of Endocrine Disrupting Compounds (EDCs) in the Potomac - Dr. Erik Rosenfeldt, Hazen and Sawyer
- Analysis of EDCs in aquatic systems - Dr. Clifford Rice, USDA
- Application of *in vitro* and *in vivo* bioassays to facilitate the identification of EDC sources in environmental waters: a brief history of intersex research in the Potomac watershed - Dr. Luke Iwanowicz, USGS
- Facilitated by - Dr. Sudhir Murthy, DC Water



Potomac River Basin Drinking Water Source Protection Partnership

Administrative Revenue and Expenses Update* October 1, 2011 through September 30, 2012

REVENUE FROM VOLUNTARY CONTRIBUTIONS	Budgeted	Received
States		
District of Columbia	6,157.41	6,157.41
Maryland	6,157.41	6,157.41
Pennsylvania	6,157.41	6,157.41
Virginia	6,157.41	6,157.41
West Virginia	<u>6,157.41</u>	<u>0.00[‡]</u>
<i>States subtotal</i>	<i>30,787.05</i>	<i>24,629.64</i>
Utilities		
Fairfax Water	10,262.35	10,262.35
Washington Aqueduct	10,262.35	10,262.35
WSSC	10,262.35	10,262.35
City of Frederick	300.00	0.00
City of Hagerstown	300.00	752.40
City of Rockville	300.00	330.00
Frederick County DUSWM	300.00	375.00
Loudoun Water	1,380.00	1,380.00
Town of Leesburg	300.00	375.00
Washington County	<u>300.00</u>	<u>300.00</u>
<i>Utility subtotal</i>	<i>33,967.05</i>	<i>34,299.45</i>
Federal & Regional Agencies		
ICPRB contribution	<u>11,053.60</u>	<u>4,156.01</u>
Total FY 2012	75,807.70	69,242.51
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EXPENSES	Budgeted	Actual*
ICPRB staff (salary + fringe)	47,442.00	40,882.82
Postage	40.00	0.00
Publications & Printing	150.00	0.00
Supplies & Office Expenses	850.00	1,039.90
Communications	450.00	822.05
Meeting Expenses & Travel	2,500.00	2,166.20
Contracts	0.00	3,375.00
ICPRB Indirect	<u>24,375.70</u>	<u>20,956.54</u>
Total FY 2012	75,807.70	69,242.51

[‡] WV contribution expected; not yet received.

*Expense figures subject to accounting review during ICPRB's annual audit.

2013 Budget

REVENUE FROM VOLUNTARY CONTRIBUTIONS	Budgeted
States	
District of Columbia	6,157.41
Maryland	6,157.41
Pennsylvania	6,157.41
Virginia	6,157.41
West Virginia	<u>6,157.41</u>
<i>States subtotal</i>	<i>30,787.05</i>
Utilities	
Fairfax Water	10,262.35
Washington Aqueduct	10,262.35
WSSC	10,262.35
City of Frederick	0.00
City of Hagerstown	752.40
City of Rockville	330.00
Frederick County DUSWM	375.00
Loudoun Water	1,380.00
Town of Leesburg	375.40
Washington County	<u>300.00</u>
<i>Utility subtotal</i>	<i>34,299.85</i>
Federal & Regional Agencies	
ICPRB contribution	<u>12,646.11</u>
Total FY 2013	77,733.01
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EXPENSES	Budgeted
ICPRB staff (salary + fringe)	44,976.88
Supplies & Office Expenses	1,000.00
Communications	350.00
Meeting Expenses & Travel	2,500.00
Contracts - website	2,000.00
ICPRB Indirect	<u>26,906.13</u>
Total FY 2013	77,733.01