Chesapeake Bay Program
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Toxic Contaminants Workgroup
June 15th, 2016 Conference Call
1:00 p.m. – 3:00 p.m.

Minutes

Summary of Actions and Decision

ACTION: TCW members should review the Map of Local Impairments and provide any feedback to Chris Wright (cwright@chesapeakebay.net) by COB Tuesday, July 12th.

ACTION: David will share the GIT Funding Request for Project Ideas form with the group. Any project ideas can be filled into Part 1 of the form and sent back to David (Wood.DavidM@epa.gov).

Welcome, Introductions, Announcements

- CWEA Beyond Nutrients Seminar Highlights
  - There was good turnout from the Workgroup. We presented our PCB Story Map and asked for feedback on a potential PCB Online Resource Center. We also heard a presentation that we may follow-up on as we look towards developing GIT funding proposals.
- Annapolis Coal Tar Sealant Ban
  - http://www.capitalgazette.com/news/annapolis/ph-ac-cn-coal-tar-legislation-0525-20160525-story.html
- Pollinator Protection Act
  - http://mgaleg.maryland.gov/webmga/frmMain.aspx?pid=billpage&stab=01&id=sb0198&tab=subject3&ys=2016RS

EDC Relative Risk Project – Dan Jones, USGS
Workplan: Research; Approach 1, Key Actions 1 & 2

Dan gave an overview of an ongoing project to gather and present data to help inform relative risk assessment for EDCs.

Discussion:

- Greg Allen (Coordinator): This tool seems to be moving towards developing causal links between contaminant sources and fish health impacts. Is the predictive function of the tool to predict effects in fish?
  - Jones: The first phase of the project is about developing an understanding of where there is relative risk of exposure. The focus is on the intersection of source occurrence and vulnerable species occurrence data. That will

help us identify key sampling locations to identify if fish health impacts are being observed. The next stage of the project would be looking at intersex and finding any correlations.
    - Kelly Smalling (USGS): One of our goals is to assess the risk to fish from EDCs. At this point, we have the most data on intersex conditions. We hope to come away with a model where we can do a risk assessment of intersex. Dan's project feeds into that by giving us a really great tool to start understanding, on the landscape, where we expect sources of EDC impacts. We will use sites where we have extensive data to really start testing out the model, but it won't yet get us to that causal agent. We won't yet be able to tell you which compound is causing intersex because the mechanisms are really complex. This project would tell us where in the Bay we would expect to have the effect.
- Allen: How are EDCs defined?
    - Smalling: That is a difficult task and we have not yet come up with a firm list. While our focus has been on contaminants of emerging concern, we know PCBs, Mercury and other contaminants have EDC effects and are a high priority for this workgroup. We are continuing work on finding out which compounds and combinations of compounds are having EDC impacts, so we can start talking about what management actions are providing reductions in those compounds.
- Len Schugam (MDE): If you are looking for information on biosolids land application, the state jurisdictions should be able to provide that. We have a sewage sludge utilization program at MDE, and in the Bay Model they are beginning to solicit that information from all of the jurisdictions.
- Ken Hyer (USGS): When Dan assembles these datasets, could they be used by the workgroup for other purposes? We can come back and share those input datasets we've assembled in a few months and see if any of them would make good standalone projects or could be useful in other ways.
- Allen: We definitely would like to collaborate heavily on the BMP issue and how to bring efficiencies into the tool.
    - Jones: We probably won't be tackling the questions related to BMPs for another year or so, but I am on a project in Montgomery County now, looking at other unintended benefits of BMPs.
- Joel Blanco (EPA, R3): Is there any way to incorporate this type of information into the permitting process?
    - Jones: I think it could be useful, but we would need to know what format to provide the information in that would be most useful for that realm. Is it maps, or a tool where you could turn the knobs on and off, etc.?

<u>Mapping of Local Impairments</u> – Chris Wright, USGS
Workplan: Policy and Prevention; Approach 1, Key Action 4

Chris provided an overview of current efforts to map all local water quality impairmentss across the Chesapeake Bay watershed, with a focus on those tied to toxic contaminant impairments.

Discussion:

- Schugam: Does this map just display the category 5 listings?
    - Wright: For every state other than Maryland it is categories 4 and 5 (listed as impaired). The Maryland data is categories 2, 4 and 5. I am currently working on being able to separate those listings out from each other.
- Will this be updated through time as states continue to develop new lists?
    - Wright: The map will be updated through time to reflect the latest listings as long as there is an interest from the group.
- Richards: I will share this with our assessment folks. We just want to make sure this jives with the message they are trying to put out. I will work with you on that.

ACTION: TCW members should review the Map of Local Impairments and provide any feedback to Chris Wright (cwright@chesapeakebay.net) by COB Tuesday, July 12th.

- Lana Sindler (MWCOG): Do you plan to have any potential sources, RCRA or others, built in to this map? It might be good to know where a superfund site or something else would be in relation to the identified impairments.
    - Wright: I didn't include sources in this particular apps. There may be some sources listed based on how the states report the data. I think something like this would line up well with the type of products Dan Jones is developing, which are focused more on sources and landscape factors.
- Allen: In our work plan we have a GIS desktop tool by EPA HSCD that could be tied together or integrated here. There is a lot of potential.

GIT Funding Projects – Greg Allen, EPA

Greg discussed the recently released RFP for Goal Implementation Team funding. The Workgoup will be identifying and prioritize projects that they would like to submit for funding.

Discussion:

- Jones: We are looking for funding to support some PAH prediction work in order to develop lab curves and do initial testing for satellite images. Is that a good fit for this type of funding?
    - Allen: Yes, I think that could be applicable. We would probably want to write a little bit on it and share it with the workgroup via email to get input as to whether that would be our priority project. We will probably only put one or two projects forward to the Water Quality GIT. One small negative is that we would need to find the link with the workplan.

ACTION: David will share the GIT Funding Request for Project Ideas form with the group. Any project ideas can be filled into Part 1 of the form and sent back to David (Wood.DavidM@epa.gov).

- Allen: Another potential project is developing a possible modeling tool for better quantifying toxic reduction values from BMPs. We could potentially pursue a project to at least do a feasibility study on how to make a tool like that useful in other MS4 areas or jurisdictions. We would like to be able to scale it up and make it available to others. Would a tool like this be used?
    - George Onyullo (DOEE): I think the tool is basically built on the basis of the simple method. I think a lot of jurisdictions have constructed their own variations of a simple method tool similar to this one. If anyone would want more information, they can feel free to get in touch with us.
    - Richards: I am not aware of a similar tool in Virginia. I think a similar tool would be very valuable.

Adjourned

List of Call Participants

Name	**Affiliation**
Greg Allen (Coordinator)	EPA
David Wood (Staff)	CRC
Marel King	CBC
Rick Greene	DE DNREC
Len Schugam	MDE
Sherm Garrison	MD DNR
Mark Richards	VA DEQ
Don Smith	VA DEQ
Rob Breeding	VA DEQ
George Onyullo	DOEE
Rod Kime	PA DEP
Thomas Barron	PA DEP
Angie Garcia	EPA
Micka Peck	EPA
Dawn Fulsher	EPA
Lauren Davis	EPA
Dan Jones	USGS
Kelly Smalling	USGS
Chris Wright	USGS
Ken Hyer	USGS
Lana Sindler	MWCOG
Upal Ghosh	UMBC
Ian Hartwell	NOAA
Jaime Mitchell	Hampton Roads
Stephanie Kroll	Academy of Natural Sciences
Krista Parra	DOD