



## Urban Stormwater Workgroup Meeting Minutes

Tuesday, January 16, 2018

10:00 AM to 12:00 PM

Meeting Materials: [link](#)

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### Actions & Decisions:

ACTION: DC DOEE, CSN, and NVRC will meet to deliberate whether a STAC workshop proposal on climate change in relation to urban stormwater practices could be drafted and submitted before the deadline of January 31.

ACTION: USWG members should review and provide feedback on the [Non-Regulated Stormwater Memo](#) to Tom Scheuler ([watershedguy@hotmail.com](mailto:watershedguy@hotmail.com)) and David Wood ([wood.csn@outlook.com](mailto:wood.csn@outlook.com)) by March 9<sup>th</sup>, 2018.

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### Welcome and Review of September Meeting Minutes

Norm Goulet, Chair. (Attach A).

### Announcements

- *Ag and Urban BMP Reference Sheets (Hanson)*: The second batch of BMP quick reference sheets has been posted, and was distributed via email. This new batch includes 3 versions of stream restoration, urban nutrient management, and updated versions of the first batch of practices (including retrofits, performance standards, etc.). They are available [here](#). Feedback should be directed to Jeremy Hanson ([jchanson@vt.edu](mailto:jchanson@vt.edu)).
- *Update on RDM GIT Funding Proposal (Schueler)*: The Bay Trust issued an RFP in early December, and the deadline is 1/19. CSN will serve as the project officer, and hopes to get the process started in March 2018. This proposal is a continuation of work by the Roadside Ditch Mgmt Team looking at crediting RDM as a BMP.
- *Phase 6 Watershed Model Webcast on 1/25 (Wood)*: This webcast will provide a summary and highlight reel of what's changed in the Phase 6 model. It's intended for an audience less familiar with the model, and will discuss what the model means in relation to on-the-ground practitioners.
- *Upcoming CSN Webcasts (Wood)*: On 2/8, there will be a webcast on road salts and stream health, with a speaker from Towson University. Register for all webcasts on the CSN website. Other trainings coming up include a recorded training on CAST by Olivia Devereux, and a potential webcast on permeable pavers.
- *EPEG Memo on Agricultural Stormwater Practices (Schueler)*: The AgWG has been considering how to handle agricultural stormwater practices (ASPs). The Expert Panel Establishment Group (EPEG) has drafted a memo to be approved by the AgWG, WTWG,

and WQGIT outlining a crediting mechanism for ASPs under the framework of the USWG Performance Standards Expert Panel's report.

- *Watershed and IC Fact Sheets Released (Wood)*: These are expected to be released by 1/19, and will be made available on the CSN website.
- *CSN Website Overhaul (Wood)*: The CSN website has been recently redesigned. There is now a stormwater basics section on the website, designed to provide introductory-level information. Questions on the website can be directed to David Wood ([wood.csn@outlook.com](mailto:wood.csn@outlook.com)).
- *Washington Metro Area Stormwater Forum 2/15 (Goulet)*: This forum will look at perspective and solutions from the public and private sector to protect streams and the Bay. Those interested in attending should contact Norm Goulet ([ngoulet@nvrc.org](mailto:ngoulet@nvrc.org)).

### **Climate Change, Interior Flooding and Implications for Future BMP Design**

Katherine Antos and Brian VanWye, DOEE (Attach B)

Katherine and Brian discussed issues surrounding the impact of climate change on both water quality and water quantity in the District. They described a recent report on interior flooding risks in the city, and how they may be influenced by changes in precipitation intensity and nitrogen loading (Attach B). They also gauged whether there is interest in the workgroup to put together a STAC research workshop proposal later in the year to explore these topics in greater detail.

#### *Discussion:*

- Norm Goulet: There was a STAC workshop in November 2017 looking at BMP uncertainty in relation to climate change. The outcome from the workshop was that there isn't a lot of research on BMP performance due to climate change, and there isn't a lot of information on changes to BMP design to accommodate climate change. There will be a STAC workshop proposal submitted to look at climate change in the Phase 6 model. I think it would be a good idea for this workgroup to put together a STAC workshop proposal.
- Katherine Antos noted that she would be willing to work with Tom Scheuler to put together a STAC workshop proposal, if the USWG was supportive and willing to serve as the sponsor.
- Norm Goulet polled the workgroup on their thoughts on hosting a STAC workshop.
- Ruth Minich-Hobson: I would like to discuss this further before providing a full response, and can get back to you soon.
- Sebastian Donner: We are supportive of this idea, and think that right now that climate change needs to be kept in mind when planning for loads.
- Randy Greer: We've tried to do assessments on how climate change will affect programs within the department. We don't have a department-wide policy at the moment, so we would be interested in the results from a potential STAC workshop, although we can't commit to participating directly at this time.
- Lee Murphy: We are in the same position as Delaware.
- Christina Lyerly: We have to discuss further with colleagues, but can get back to you soon.

- Tom Scheuler: It's a quick turn-around to submit a proposal by 1/31, but CSN would be happy to work with others, look at existing research, and work on some kind of event in the second half of 2018.
- Norm Goulet: I would suggest that DOEE, CSN, and myself group together next week to see if a proposal could be submitted.
- KC Filippino: What would the focus of this workshop be?
  - Norm Goulet: I think BMPs would certainly be the focus. The one area that we have very little information on is how the model handles climate change within the watershed model; not the estuarine model.
  - Karl Berger: I think we also need more research in upland areas about how different factors affect climate change and loading – so that should also be part of the focus.
- Brian VanWye: Is anyone familiar with other MS4s doing work on interior flooding and impacts on MS4s from rising sea levels?
  - KC Filippino: We have a coastal resiliency group looking at this problem.

**ACTION:** DC DOEE, CSN, and NVRC will meet to deliberate whether a STAC workshop proposal on climate change in relation to urban stormwater practices could be drafted and submitted before the deadline of January 31.

### **Update on Progress on the MPA and Revised Schedule for Phase 3 WIP Loads**

Norm updated the workgroup on progress made by the partnership in accepting the Phase 6 modeling tools, making key decisions on Conowingo and climate change, and the slightly revised schedule for determining Phase 3 WIP Loads for the states.

### **Discussion: Un-regulated Stormwater in the Bay Watershed**

(David/Tom, CSN) Attach C

David and Tom reported on a recent land use analysis that indicates that most of the impervious and turf cover in the Bay watershed is located on "non-regulated" areas (i.e., not regulated under a MS4 permit or under CSO control strategy. Tom lead a discussion on how the prevalence on un-regulated land influences BMP reporting and verification at the local/state level, as well as basic capacity needs for these smaller communities when it comes to dealing with load reduction accounting for the Bay TMDL. Bay states members were asked to describe their current and future strategies to involve non-regulated communities in the Bay restoration effort.

#### *Discussion:*

- Norm Goulet: I think all state sector representatives should discuss this more with their colleagues, and start thinking through how to address this issue in each jurisdiction. I think it would be a good approach to tee up a longer discussion on this in March, and then do a presentation to the WQGIT on this in late March/early April.
- Sebastian Donner: We've considered this in our verification protocol. For us, a lot of counties are projected to have population decreases, and the two counties where there are increases all have stormwater regulations. WV DEP does post-construction BMP

verifications for anything >1 acre disturbance, so we're capturing all of that. We're working with partner agencies to capture riparian buffers, tree plantings, and we send out annual surveys to capture BMPs from local governments. We plan to address this in our Phase III WIPs, with how to distribute loads among sectors.

- Ruth Minich-Hobson: I would appreciate the discussions be in March to give us more time. Regarding state input on the 'CBP Help Desk' – can you talk about that more?
  - Tom Scheuler: The thinking here was that a state could make available a contact to small, unregulated MS4s or communities, where they could request answers to their questions through the use of the CAST tool. Specifics would need to be fleshed out more, but the concept is giving small communities data that they can process and use.
- Randy Greer: DE numbers might be a bit misleading – anything developed after 1991 would have stormwater management. They're not truly unregulated; they just don't have an MS4 permit. So what's not managed is existing development prior to 1990, which is likely in the single digits in terms of total coverage.
  - Tom Scheuler: Do those communities have the capacity to inspect and verify the post-1991 BMPs?
  - Randy Greer: We delegate that to local soil conservation districts. So perhaps we need a new metric to represent non-regulated.
- Lee Murphy: In PA, we have some mix of DE's situation too. We have Chapter 1 & 2 permits that are statewide, but insurance and maintenance for those is a gap outside of MS4s.
- Jeff White: Our current strategy for the Phase III WIP is likely going to be that our non-regulated community won't be asked to do more than what they have lined up per the Phase II WIP; just voluntary action from what's already been undertaken – but this is all subject to change.
- Cecelia Lane: I wasn't aware that there was land in the district not covered by regulations, but I will look into that and get back to you on our approaches.
- Ted Brown: When you come to the inter-sector trading piece, were you envisioning that this would include private properties?
  - Tom Scheuler: I was envisioning that there would be some hesitancy on conducting investigations on private land. But initially, if there are BMPs on private land constructed under state permit/law, there would be no problem (in my mind) if a 3<sup>rd</sup> party could inspect and maintain those older BMPs in exchange for getting the pollutant reduction credit for it.
- Norm Goulet: Next month, I suggest we get a CBPO Modeling Staff to do a presentation on the latest progress numbers in the model. This would give some context as to where the individual jurisdictions stand. From what we've seen, the sobering news is that for our sector, our loads are increasing. States are likely going to lean on their representatives to figure out how to address this.

ACTION: USWG members should review and provide feedback on the Non-Regulated Stormwater Memo to Tom Scheuler ([watershedguy@hotmail.com](mailto:watershedguy@hotmail.com)) and David Wood ([wood.csn@outlook.com](mailto:wood.csn@outlook.com)) by March 9<sup>th</sup>, 2018.

**Attachments.**

- Attach A. September USWG Meeting Minutes
- Attach B. Interior Flooding in the District of Columbia
- Attach C. Technical Memo on Non-Regulated Stormwater

Participants:

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|--------------------|-------------------------|
| Norm Goulet        | NVRC                    |
| Tom Scheuler       | CSN                     |
| David Wood         | CSN                     |
| Lindsey Gordon     | CRC                     |
| Karl Berger        | MWCOG                   |
| Ted Brown          | Biohabitats             |
| Lee Murphy         | PA DEP                  |
| Heather Gewandter  | City of Rockville MD    |
| Marty Hurd         | Fairfax County VA       |
| Chad Thompson      | WV DEP                  |
| Sebastian Donner   | WV DEP                  |
| Randy Greer        | DE DNREC                |
| Elaine Webb        | DE DNREC                |
| Renee Reber        | American Rivers         |
| Julienne Bautista  | DC DOEE                 |
| Steve Stewart      | Baltimore County MD     |
| Robert Hirsch      | Baltimore County MD     |
| KC Filippino       | HRPDC                   |
| Christina Lyerly   | MDE                     |
| Jeff White         | MDE                     |
| Michelle Crawford  | MDE                     |
| Audra Lew          | M-NCPPC                 |
| Medessa Burian     | UMD                     |
| Ruth Minich-Hobson | VA DEQ                  |
| Mark Hoffman       | CBC                     |
| Ginny Snead        | Louis Berger Group Inc. |
| Jeremy Hanson      | VT                      |
| Cecilia Lane       | DOEE                    |