Modeling and Regulatory Support Workgroup (MRSW) Meeting Agenda

January 3, 2023, 12:00 PM to 2:30 PM

In Person Meeting with Option for Remote Access Via Teams
(see last page of agenda for instructions)

Materials related to the MRSW Meeting have been placed on the UNRBA website unless noted otherwise on the UNRBA Meetings Page.

I. Opening Comments, Agenda Review/Revisions — Chair Michelle Woolfolk

II. Watershed Model Report Status

Item Summary (Alix Matos): The Watershed Analysis Risk Management Framework (WARMF) model for the Falls Lake watershed has been calibrated for stream flows and water quality and the draft modeling report submitted to the Modeling and Regulatory Support Workgroup (MRSW) for review. The modeling team is compiling and responding to comments to prepare a draft for review by the PFC followed by formal submittal to DWR. The WARMF model training has been scheduled for February 6, 2023. The modeling team will distribute an installation package soon to the training participants.

III. WARMF Lake Model Status

Item Summary (Alix Matos and Scott Sheeder): Final calibration of the WARMF Lake model was approved by the MRSW during the November 1st meeting. Because the WARMF lake model is embedded in the watershed model, both have to be run five times (25 years) to stabilize the soils in the watershed by land use. This has the effect of "washing" out the lake sediments as well, and the initial lake sediment conditions based on the UNRBA sediment quality studies are "lost." To provide a more accurate starting point for the lake sediments for the 5th model run, a code modification was conducted to set lake sediments to initial conditions rather than using the warm start file generated by the 4th run. The updated WARMF Lake model performance statistics will be summarized during the meeting using this new functionality. Model performance is "good" to "very good" for the six main lake segments for total nitrogen, total phosphorus, and total organic carbon.

IV. EFDC Lake Model Status

Item Summary (Silong Lu and Chris Wallen): The modeling team has also been working with the SMEs and Division of Water Resources (DWR) modeling staff to continue to develop the EFDC model, and another meeting was held November 17th. Further refinements to the model have been made, and final calibration of the model will be presented to the MRSW during the meeting for approval.

V. Lake Reporting Status

Based on DWR comments on the watershed model report and since most of the lake data was not collected by UNRBA, the modeling team proposes a simplified approach to establishing the "bars" on the lake observations compared to modeled time series to visualize uncertainty. The two largest sources of lake data are DWR and CAAE, and their "example" targets for relative percent difference range from 10 percent to 20 percent depending on the parameter. For visualization purposes we propose applying +-15% to each observation point to illustrate the uncertainty associated with laboratory analyses. The MRSW will discuss.

VI. Closing Comments— Chair Michelle Woolfolk

Next BOD Meeting: January 18, 2023, 9:30 AM to Noon
Next PFC Meeting: February 7, 2023, 9:30 AM to Noon
(start time may need to be adjusted; no MRSW is planned for February)

This schedule may be revised, and notices will be provided about any change

Remote Access Instructions for the MRSW and PFC Meetings

This meeting will open 10 minutes prior to the official meeting start time to allow for users to test equipment and ensure communication methods are functioning.

Equipment Type	Access Information	Notes
Computers with microphones and speakers	Join Microsoft Teams Meeting **Please mute your microphone unless you want to provide input.**	Press control and click on this link to bring up Microsoft Teams through the internet. You can view the screen share and communicate through your computer's speakers and microphone.
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Phone only	(888) 404-2493 Passcode: 371 817 961#	Dial the toll-free number and enter the passcode. **Please mute your phone unless you want to provide input.**

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