

SFWMD C-8 AND C-9 WATERSHEDS FLOOD PROTECTION LEVEL OF SERVICE ADAPTATION PLANNING AND MITIGATION PROJECTS STUDY

**Date:** May 23, 2022

**Time:** 2:30 PM – 3:30 PM

**Subject:** Bi-Weekly Meeting #26

Attendees Highlighted:

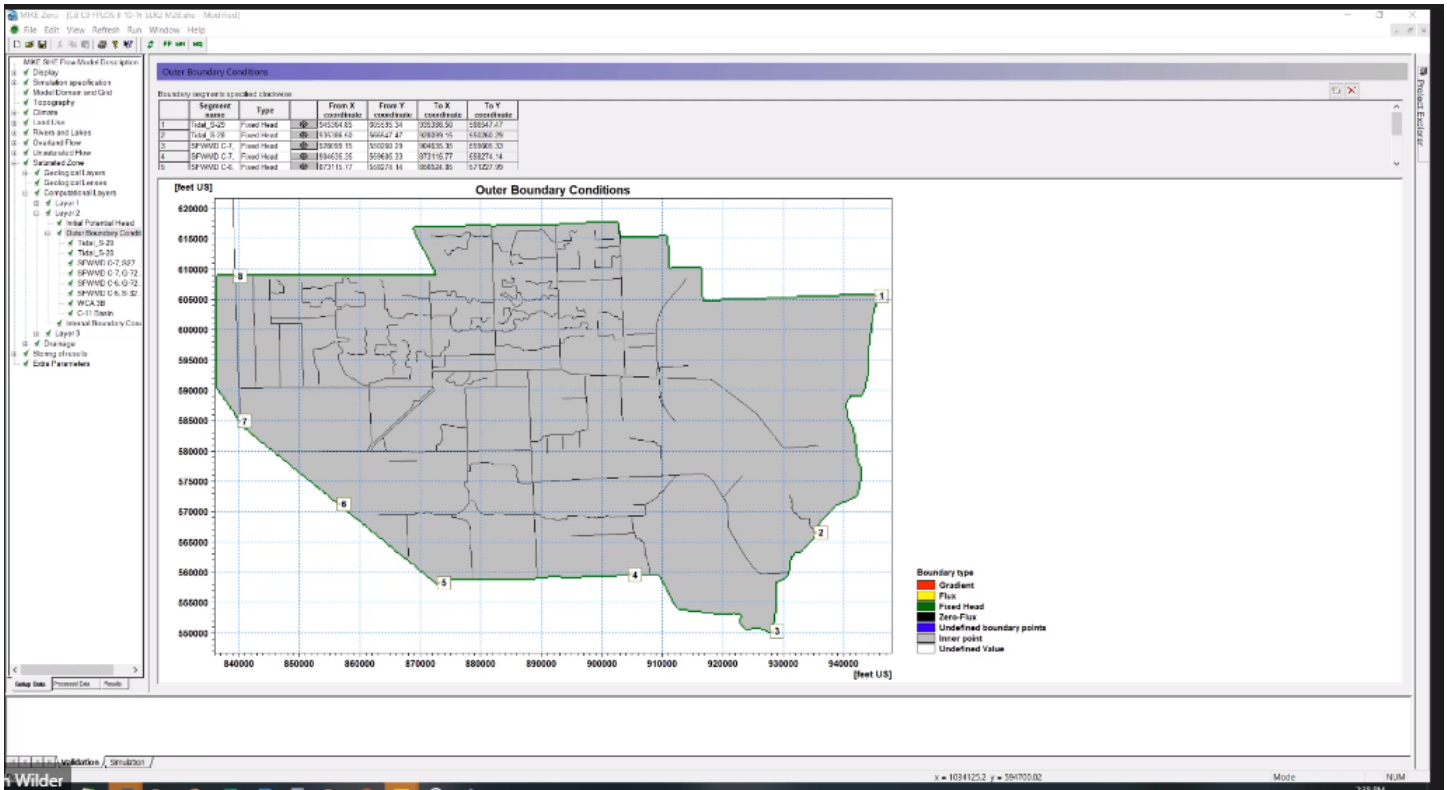
- Hongying Zhao, **SFWMD**
- Ana Carolina Maran, **SFWMD**
- Nicole Cortez, **SFWMD**
- Akin Owosina, **SFWMD**
- Ann Springston, **SFWMD**
- Lichun Zhang, **SFWMD**
- Matahel Ansar, **SFWMD**
- Larry Brion, **SFWMD**
- Carol Ballard, **SFWMD**
- Ruben Arteaga, **SFWMD**
- Sashi Nair, **SFWMD**
- Francisco Pena Guerra, **SFWMD**
- Shahana Mona, **SFWMD**
- Vijay Mishra, **SFWMD**
- Irela Bague, **Miami Dade**
- Marina Blanco-Pape, **Miami Dade**
- Alberto Pisani, **Miami Dade**
- Gregory Mount, **Broward**
- Kevin Hart, **SBDD**
- Susan Bodmann, **Broward**
- Jennifer Jurado, **Broward**
- Rajendra Sishodia, **Broward**
- Virginia Walsh, **WASD**
- Omar Abdelrahman, **RER**
- Pamala Sweeney, **RER**
- Katherine Hageman, **RER**
- Valentina Caccia, **RER**
- Michael Zygnerski, **Broward Co**
- Karina Cordero, **RER**
- Michael DelCharco, **Taylor Engineering**
- Angela Schedel, **Taylor Engineering**
- Pat Lawson, **Taylor Engineering**
- Joseph Wilder, **Taylor Engineering**
- Stephanie Massey, **Taylor Engineering**
- Elton Smith, **Taylor Engineering**
- Lynette Cardoch, **Moffatt & Nichol**
- Sarah Hamm, **Moffatt & Nichol**
- Peter Sahwell, **Nova Consulting**
- John Loper, **Anclote Consulting**
- David Key, **ESP – Florida**
- Nathan Slaughter, **ESP – Florida**

Notes:

1. **Meeting Kickoff**
  - Roll Call
2. **Task 2 – Modeling:**
  - Discussion of updated model setup following May 9<sup>th</sup> meeting.



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- This graphic shows the basin boundary/limits. The northern boundary and part of the southern boundary had conditions set from the 2019 Broward County model. That is a GW condition set by that model. But, those conditions are not well suited for future conditions. This boundary also had several assumptions that were not compatible with the current modeling. So, the team went in and looked at GW conditions and realized we needed to update those boundaries.
- The Current conditions and future conditions w/o mitigation projects will have a new northern boundary condition.
- The lower half of the model is the C-7. We had data from SWMM model with tailwater and headwater conditions with a split near the middle. To improve this boundary condition, we removed the split and now have a more seamless condition for the whole canal.
- So, we updated the model and are re-running the models. We have run current conditions and are running future conditions. Will have M2A, M2B, and M2C runs in a few weeks.
- Are S-28 and S-29 revised for salinity controls? Yes, Baseline model had that, but in a more conservative approach. The District had previously given guidance that a .3 tenths difference close the structure. Now we have update rules and the gate is open at 0.3 tenths and closed as 0.1 tenth. Joe checked the results and doesn't see a difference in results for the peak.
- Rajendra asked what the motive was to update the baseline model?
  - It is not an easy decision – but we found when we update the model to put in a new mitigation scenario, we had to go back and change the baseline model. Adding in Lake Ojus project meant we had to change the baseline. Since we were doing that, we decided to go ahead and update the boundary condition issues that we saw as well.
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- Updated Boundary Conditions
  - New model runs for M0, M2A, M2B
- 3. Task 3 and Task 4 – No updates this meeting**
- Working on cost model for mitigation plans
  - Working on independent audit of the District’s FIAT tool
- 4. Additional action Items from Previous Meeting**
- Any input from the partners on this meeting format?
  - Pamela Sweeney – appreciative of the details. Would it be possible to have a 1 page-er of model results at this stage? A periodic update of modeling?
    - i. Hongying said there are three options – recording of the meeting, meeting minutes, and perhaps a one-time update on modeling.
    - ii. Pamela needs a general overview of the project that can help brief other departments on the project status.

