



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

Date: April 18, 2022

Time: 2:30 PM – 3:30 PM

Subject: Bi-Weekly Meeting Minutes (Meeting #22)

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**
- Christian Kamrath, **RER**
- Michael DelCharco, **Taylor Engineering**
- Angela Schedel, **Taylor Engineering**
- Pat Lawson, **Taylor Engineering**
- Joseph Wilder, **Taylor Engineering**
- Stephanie Massey, **Taylor Engineering**
- Lynette Cardoch, **Moffatt & Nichol**
- Peter Sahwell, **Nova Consulting**
- John Loper, **Anclote Consulting**
- David Key, **ESP – Florida**
- Nathan Slaughter, **ESP – Florida**
- Sarah Hamm, **Moffatt & Nichol**
- Elton Smith, **Taylor Engineering**

Notes:

1. **Meeting Kickoff**
 - Roll Call
2. **Presentation: M2A Preliminary Results**
 - Presented results last meeting – 1500 cfs pump and improving downstream structure
3. **Scenario M2B Discussion**
 - Goal is 25-yr level of service with SLR2
 - Model development discussion – larger pump and raising berms
 - Looking at what happens if we raise the berms – looked at existing conditions and see that the high water levels in the canal cause flooding near canal.
 - i. Adding elevations to the berms then causes ponding since the rainfall cannot drain into the canal easily. Had to create new branches and added 1-way culverts. The timing changes causes some flooding near the banks.



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- ii. Looked at difference between 100-yr SLR2 values. Red colors will lowering the flooding, blues were higher elevations. There are still some areas that show flooding.
 - HZ – maybe you could do some deep well injection at those location that are showing residual flooding.
- iii. We will compare to current conditions
- iv. Joe ran M2A and raised embankments. So, not really an M2B run, yet. Just looking at performance. This is 100-yr comparison using a 1,500 cfs pump.
 - This step allowed us to make sure that the modeling approach was correct – we checked it with M2A before just putting in larger pump for M2B.
- v. Next will be M2B run with 25-yr and SLR2. M2B has larger pump than M2A. We'll be happy to get back to current conditions.
- vi. Katherine Hagerman – has there been any calculations about acreage of those low-lying areas? Are these developed lands or parks? Yes, we'll look at that. In fact, Task 3 will look at that with flood damage assessment.
- vii. For M2B, Joe said probably looking at 2,000 cfs pump. Would you want odd pump sizes? Well, Diesel pumps are 500 cfs but District does use electric 100 cfs pumps.
- viii.

4. Overview of Task 3 – Flood Damage Assessment

- Slide overview of concept
- Katherine (Katy) – could we use the USACE cost estimating tools so they can match with what the USACE is doing? Especially for floodproofing.
- Carolina sent the database from USACE for the backbay study. We need to compare the curves they are using with our curves.

5. Additional action Items from Previous Meeting

- Schedule update
- Mitigation Project Cost Development
 - i. Carolina sent a USACE database for cost generation

