



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

Date: July 5, 2022

Time: 2:30 PM – 3:30 PM

Subject: Bi-Weekly Meeting #27

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**
- Seyed Hajimizaie, **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**
- Laura Eldridge, **(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**
- Lynette Cardoch, **Moffatt & Nichol**
- Peter Sahwell, **Nova Consulting**
- Lara Tomenchok, **Nova Consulting**
- John Loper, **Anclote Consulting**
- David Key, **ESP – Florida**
- Nathan Slaughter, **ESP – Florida**
- Carrie Sigrist -?
- Sarah Hamm, **Moffatt & Nichol**
- Elton Smith, **Taylor Engineering**

Notes:

1. Meeting Kickoff
 - Roll Call
2. Task 2 – Modeling Update
 - Discussion of M1 analytic calculations (non-modeling)
 - i. Discussion of surface water storage areas
 - ii. Carolina – the District looked at all of this for the C8 basin. They identified it as part of the resiliency plan. They went into pretty deep details for C8 and more general for C9.
 - Miami Dade was involved as well. Built a lot of consensus as well.
 - They looked at underutilized areas, as well.
 - Dave looked at this for the District and looked up property/real estate parcels. He can help us with this work.



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- iii. Elton – these would be dry storage. Only flooding during extreme events. That minimizes wildlife attraction.
- iv. Hongying – maybe we can talk with Greg Mount from Broward County about this.
- v. Elton had about 1,000 acres in C9 basin. The C8 had closer to 500 acres.
- vi. Green infrastructure – Elton. With large scale projects, it is hard to get those green infrastructure. But, using trees in dry ponds is really useful. Get some recreational use out of the system.
 - Carolina is there limited capacity to store water? Elton – well the BMPs for green infrastructure are limited. They are pretty small scale. But, planting and creative landscaping are key. Or making them tree canopies, green parking?, bioswales treating the runoff, etc.
 - Carolina – didn't Joe look at green spaces? Modeling an assumed green area with enhanced infiltration? Maybe also retention? Yes, Joe modeled the 500 acre feet storage. That was a general idea. Now Elton is trying to find that 500 ac-ft.
 - a. There is an example used in Girald Street with a company out of NY. Raised some roads, added underground storage.

3. Task 3 – Flood Damage Assessment

- Audit Update – response to questions from last meeting:
 - i. What data inventory/building stock were used? The District data was the same as what we are using.
 - ii. Were basements included in DDFs? No DDF's didn't include basements.
 - iii. ESP will have a presentation and results for the next call.
 - iv. The FIAT tool had results in line with what they have seen in other tools.
 - v. Nathan – the in/out methodology is slightly different in how it uses the centroid or footprint approach. Carolina said she asked the team if it was centroid or footprint and will let us know what she hears.
 - vi. Vijay – was the cost of an order of magnitude or just a percentage? Just a percentage.

4. Task 4 – Adaptive Pathways Analysis

- Team reviewing results, will present at next meeting.
- We'll meet with District before that meeting.

5. Additional action Items from Previous Meeting

- Schedule – report drafts due the end of August
- Schedule meeting with Broward Co and Dave about C9 basin storage

