



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

Date: August 1, 2022

Time: 2:30 PM – 3:30 PM

Subject: Bi-Weekly Meeting #29

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**
- Chris Carlson - **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**
- John Loper, **Anclote Consulting**
- David Key, **ESP – Florida**
- Amanda TerBeek - **ESP**
- Nathan Slaughter, **ESP – Florida**
- Lara Tomenchok - **NOVA**
- Sarah Hamm, **Moffatt & Nichol**
- Elton Smith, **Taylor Engineering**

Notes:

1. Meeting Kickoff

- Roll Call

2. Task 3 – Flood Damage Assessment

- ESP Audit Summary
 - i. Gave a summary of their audit.
 - ii. They used centroid, same as FIAT tool.
 - iii. Discussion of DDF – example provided HAZUS as a source of the DDFs
 - Chris – we could probably develop more “local” DDFs, but wanted to be consistent with national standards
 - Used ArcGIS ModelBuilder to calculate the damages.
 - iv. For EAD, used AAL approach (same as HAZUS)
 - v. ESP applied AAL which is slightly different approach
 - vi. Found a couple key things:



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- Number of buildings damaged matched
- Damage calculations were very close- so good validation
- Small differences probably due to just the changes in methodology
- vii. ESP looked at 300 buildings in each C8 and C9 basins.
- Sub-basin vs Census Tract visualization for EAD
 - i. Discussed Subbasin missing for the northern part of C9
 - ii. Miami Dade had developed subbasin via SWMM. They had done some modeling.
 - iii. We had already done the EAD and DAPP analysis so we could not go back and add basins.
 - iv. We showed the damages by census tract
 - v. Could we look at EAD per square mile or something?
 - vi. Pat – we could talk more about that.
 - vii. Chris – maybe we could do the spatial join with a 1 km grid or something. She could easily add another aggregation to the exposure data file.
 - viii. Hongying – we could use 2 km x 2 km or township range. Others – well township range is not uniform, so that may not be good.
 - ix. Carolina – I think census block is good – shows good distribution. And we can look at socio economic work as well. A lot of the federal work is keying in on that aspect.
 - That’s a point we had not really considered before -thank you for that input.
 - x. Pat presented some of the specific data we saw in C8 focus area.
 - We show individual building data – but won’t show that in final report, just to be sensitive to public consumption of the data.
 - Chris – we would want to look a little deeper at individual buildings because the tool uses some assumptions on FFEs.
 - Pat – all these examples are for SLR 3 with no-mitigation. Just for display purposes.
 - xi. Hongying – any comments from Miami-Dade or Broward? No questions.
 - xii. Hongying - how about the District team? Carolina – do we have a feeling on CB ratio?
 - No we have not finished that. Next meeting will focus on Net Present Value calculations and cost benefits! Stay tuned!

3. Additional action Items from Previous Meeting

- Next Meeting will focus on the costs for mitigation projects and Net Present Value

