

DRAFT MINUTES
TECHNICAL ADVISORY COMMITTEE
TO THE BROWARD COUNTY WATER ADVISORY BOARD

August 20, 2021

A meeting of the Technical Advisory Committee (TAC) to the Broward County Water Advisory Board was held on August 20, 2021, commencing at 9:30 am on WebEx. (The TAC meeting minutes were summarized by Gregory Mount (Gmount@Broward.org or 954-519-0356). Copies of the presentations are filed with the supplemental papers of the meeting.)

Please note that due to technical difficulties, items I through VI.A, or about the first 30 minutes were not recorded on WebEx. Minutes for that portion are based on notes taken by Dr. Mount. Path to the recording:

<https://broward.webex.com/recordingservice/sites/broward/recording/playback/a6085b6de3ea1039acfd0050568ca35b>

I. Roll Call

Members Present:

Kevin Hart (Chair)
Randolph Brown (Vice-chair)
Albert Carbon
Susan Bodmann for Alan Garcia
Brett Butler
Doug Bell
Harold Aiken
Bridget Huston for Isabel Cosio Carballo
Jennifer Jurado
Jose Lopez
Leny Huaman
Giovanni Batista for Mark Collins
Adolfo Gonzalez for Mike Crowley
Patrick Davis
Pete Kwiatkowski
Rafael Frias
Renuka Mohammed
Susanne Carrano
Steve Holmes
Steve Urich
Talal Abi-Karam
Carrie Kashar for Tim Welch

Members Absent:

David Walker, Lisa Milenkovic, Mike Bailey, Stephanie Pearson

II. Statement of Meeting Objectives

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III. Public Comments

None Provided.

IV. TAC Approval of Minutes of June 18, 2021

Motion: Randolph Brown, Second: Talal Abi-Karam, Vote: Unanimous

V. Announcements

No Announcements were made.

VI. Presentations

A. ****Broward County IWRP Grant Applications (10p, 5d)**

Dr. Gregory Mount, Water Resources Manager, Environmental Protection and Growth Management Department/Resilience Unit.

Dr. Mount provided a review of the IWRP grant request process and a summary of the 8 projects submitted. Dr. Jurado noted that the threshold for funding was determined to be 70 points or greater on the judgment criteria. This ensures adequate ROI with projects that are consistent with and in furtherance of the IWRP goals. Using those thresholds, staff recommended 6 for funding: (5 F.A.D, and 1 Construction).

Chair Hart asked for a motion to forward the 6 recommended projects for consideration by the Water Advisory Board at their next meeting. Doug Bell made the motion, it was seconded by Susan Carrano, and it passed unanimously.

B. **Broward County Water Preserve Areas C-11 Impoundment Project Overview. (30p, 15d)**

Allison Joura, Project Manager, and Mitchell Thomas, PE, Engineering Technical Lead, Ecosystem Project Section, Programs and Project Management Division, USACE Jacksonville District

Ms. Joura introduced herself and the team and the preliminary design. For the Broward Water Preserve Area. This is a joint project with USACE and SFWMD, that was authorized in 2014 for \$896,000. It consists of three main features- C-11 Impoundment, Seepage Management Area, and the C-9 Impoundment. The project was designed to reduce discharges of runoff from parts of western Broward County into WCA 3. The C-11 is key to the full operation of the CEPP South, and overall, the project will reduce excessive seepage of water out of the Everglades and improve fish and wildlife habitat for 5 federally listed species. In total, 763,000 acres will benefit from the project's implementation.

Mitchell Thomas continued with a design overview of the C-11 impoundment and some slight refinements of the levee. The project will include a pump station and provide 4,600 acre-ft of impoundment capacity. As the C-11 canal has significant recreational usage, bridges will be built around the pump station to allow for continued use. He then provided an overview of all the drainage structures that will be used to maintain water levels in the impoundment.

Dr. Jurado asked a few questions about the boundary of Mitigation Area 'A' noting that the area South of SW 26th Street will remain untouched by the project. The reduction in acreage has not been recalculated yet.

Other questions were asked concerning the mass of nutrients released to tide, and the use of the impoundment as storage to lower C-11 stages.

The presentation continued with all the design specifics for the impoundment and mitigation area.

The presentation finished with Shabbir Ahmed providing a brief overview of the seepage modeling that used WASH3D to produce groundwater elevations prior to and then after the completion of the impoundment.

USACE will issue a RFP, but a timeline has not been decided yet (maybe Summer 2022).

C. CS/CS/CS/HB 53: Public Works, Stormwater Needs Analysis (20p, 20d)

Kate Beggs and Michael Bateman, P.E., The Legislative Office of Economic and Demographic Research. State of Florida.

The presenters from EDR provided an overview of the Stormwater needs analysis and the legal requirements behind the submissions. The statute requires counties, municipalities, and special districts, to perform a 20-Year Needs Analysis for Wastewater and Stormwater. EDR is developing a template to facilitate submission. The needs assessments are due on June 30, 2022, county will send to state a month later. The presentation detailed the requirements about what groups must prepare the analyses.

The presenters then worked through each of the parts of the template in detail. (G. Mount note: The template just became available on 10/8/2021). The webpage provides a .pdf document of the template review. Other templates will be posted as they become available.

*** text requested by TAC Member D. Bell (1:21:11 to 1:25:30 on recording) this is not a verbatim transcription. Contact gmount@broward.org for a copy of the recording or visit: <https://broward.webex.com/recordingservice/sites/broward/recording/playback/a6085b6de3ea1039acfd0050568ca35b>**

Doug Bell identified himself additionally as a Commissioner for the CBWCD and said it seems like this is an unfunded mandate that is being imposed by the legislature, and he does not know what they expect each district to expend to get this done because you generally have to hire consultants to do the work. In part four there is references to resiliency and some other matters and he doesn't see where resiliency or sea level rise or anything like that in any of the legislation or staff analysis that were done. Is this something that a specific person asked for? As far as this format for the way that it is, or is this just what you all camp up with? I guess do we have to submit your forms, or can we submit what we believe to more appropriately apply to each individual district.

State reply: You are not required to use the template. If you do fill it out, you have fulfilled the requirements of the statute. If you choose not to use it, you must... (unintelligible)

D. Bell: A lot of the work that is being requested is found in the various facilities reports done by most special districts. Can we just submit that facilities report and say here is the information?

State reply: We would encourage you to, most of the template isn't terribly difficult, we would encourage you to fill it out to the best of your ability and submit those other reports as additional information. I think that would work. You're right, resiliency is not in the bill, but EDR believes the

legislature is interested in this in particular. So that's why it is there, if you choose not to answer it, that's fine as well.

D. Simulated Drainage Infrastructure and Groundwater System Response to Changes in Sea-Level, Broward County, Florida. (15p 5d) *Dr. Jeremy Decker, USGS Hydrologist.*

Dr. Decker provided an update to the modeling efforts of the USGS for the increase in groundwater system in response to changes to sea level. He provided an overview of the project to date and starts that the project is now in peer review and will move to publication after. Project has been extended until March 2022 at no cost to the County. Dr. Decker notes that four future mean sea-level scenarios were simulated, representing 13-43 inches of sea level rise. Dr. Decker then provided the results of the model simulations for each of the scenarios.

Dr. Decker will return to the TAC for a final presentation at a future date.

Dr. Jurado stated that it would be the county's intent through the stakeholder process to update the future conditions groundwater map to align it with the Compacts updated sea level rise curve. This would update the 2017 map.

E. Broward County Citizen Science Flood Monitoring Program. (10p 5d) *Katie Lelis and Adrienne Aiken, Environmental Protection and Growth Management Department/Resilience Unit.*

Ms. Lelis provided an overview of the crowdsourced data collection efforts and the redesign of the tool. The tool has been improved to increase the ability to share the information amongst other groups. The tool was completed in time for the predicted storm the previous weekend, but the storm didn't occur, so there was no new data to share.

The tool will continue to be active and will allow for the collection of data during future storms.

Dr. Jurado noted the use of these tools by groups such as Moody's in addition to citizen scientists and other water managers.

VII. New Business and Open Discussion

Dr. Jurado: Update on C&SF project. New start funding was included in the President's budget in the amount of \$500,000. The USACE has been reassuring that the subsequent funding is much easier to come by. We also recognized that this new funding is limited to the control structures, the additional scope is not authorized. Waivers are potentially available, but we don't know if we will get one.

VIII. Next scheduled TAC Meeting: October 15, 2021, 9:30 a.m.

IX. Next scheduled Joint WAB/TAC Meeting: September 10, 2021, 10:00 a.m.,

X. Meeting Adjourned