

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

December 17, 2021

A meeting of the Technical Advisory Committee (TAC) to the Broward County Water Advisory Board was held on December 17, 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.)

*There were technical difficulties at the beginning of the meeting and recording did not begin until approximately 9:41 AM, at the end of the announcements.

Link to the recording:

<https://broward.webex.com/recording/service/sites/broward/recording/431edd784175103ab5df005056813c95/playback>

I. Roll Call

Name	Present	Absent	Alternate Name
Kevin Hart (Chair)		X	
Randolph Brown Vice- Chair	X		
Albert Carbon	X		
Alan Garcia			X Susan Bodmann
Brett Butler		X	
Commissioner Doug Bell	X		
David Walker	X		
Harold Aiken	X		
Isabel Cosio Carballo	X		
Dr. Jennifer Jurado	X		
Jose Lopez	X		
Leny Huaman		X	
Lisa Milenkovic	X		
Mark Collins		X	
Mike Bailey		X	
Mike Crowley		X	
Patrick Davis	X		
Pete Kwiatkowski	X		
Rafael Frias	X		
Renuka Mohammed	X		
Susan Carrano			X Juan Paul Perez
Stephanie Pearson	X		
Steve Holmes	X		
Steve Urich	X		
Talal Abi-Karam	X		
Tim Welch	X		

II. Statement of Meeting Objectives

A meeting of the Technical Advisory Committee to the Broward County Water Advisory Board was held on December 17, 2021, commencing at 9:30 am on WebEx.

III. Public Comments (Not captured in the recording)
None Provided.

IV. TAC Approval of Minutes of October 15, 2021 (Not captured in the recording)
Motion: Unknown, Second: David Walker, Vote: Unanimous.

V. Announcements
Dr. Jennifer Jurado made an announcement that Mr. Collins would be retiring and resigned from the TAC and that Staff would be sending out an invitation to apply for the open position.

VI. Presentations

A. Broward Water Conservation Program Initiatives (20p, 10d)
Sara Forelle, AICP, NatureScape Water Conservation Program Manager, Broward County Natural Resources Division.

Ms. Forelle presented an update on water conservation program initiatives and highlighted the past success of the last year with the NatureScape Irrigation Service, Conservation Pays, Water Matters Month, and the Broward Schools Environmental Partnership programs. Ms. Forelle explained the virtual Water Matters Month and a no-contact tree giveaway and thanked all of the sponsors who have contributed to WMD over the past 20 years.

The NatureScape Irrigation Services Rebate Program incentivizes the installation of WaterSense controllers and water saving spray heads. This project started off with 16 municipal partners and in 2020 a three-year SFWMD grant subsidized the rebates. In 2021 the program reverted to partner funding and has 11 participating water providers.

The Broward Water Partnership and Conservation Pays continues with large water savings due to toilet rebates and water saving devices distribution. They have won over 12 awards this year. This year a new Toilet Trade Out Pilot program was started, and 28 toilets were installed at no cost to the homeowner. There were issues with toilets that qualified for the program and the cost of permitting fees that were more than the cost of the toilet. Staff is working to get those issues fixed.

The Broward School Environmental Partnership consists of several programs across the school district. The annual Youth Climate Summit went virtual for three days and provided over 4,000 students and teachers 30 sessions to choose from. Most of the programs had to move to virtual due to the ongoing covid pandemic and staff has adapted most offerings. Ms. Forelle provided additional information and contacts for ongoing programs.

B. Variable Density Modeling Update for Broward County (20p, 10d)
Dr. Rajendra Sishodia, Resilient Environment Department, Resilience Unit

Dr. Sishodia presented the ongoing variable density groundwater modeling efforts at the County that is focused on saltwater intrusion as a result of sea level rise. Dr. Sishodia

provided background on the existing models and an update in partnership with the USGS and partner municipalities. The combination of pumping, sea level rise and rainfall is a significant risk to existing wellfields near the coast. The impacts will be exacerbated over time as sea levels get higher.

Dr. Jurado added a follow up that included a bit of history that included the early project period with Pompano Beach and in collaboration with the USGS. She highlighted the current work Dr. Sishodia has done to combine the multiple models to provide coverage of the whole County. The County has pursued a request with the USGS to develop a higher resolution model that would enable a more in depth look at individual well fields and incorporate new sea level rise projections. The County is looking to develop these models with municipal partners and hopefully bring in resilience grant funding in the future.

Mr. Kwiatkowski spoke to the 2019 curves and the use of additional monitoring wells to refine the area near 595. SFWMD is creating a density dependent regional model that will be calibrated in 2022 and will undergo peer review soon after. After peer review the model will be used to investigate similar areas and sea levels.

Mr. Brown spoke to the usefulness of this model to determine future water supply wells and planning for the future.

C. Update on the Vulnerability Assessment of Broward County (20p, 10d)

Adrienne Aiken, Resilient Environment Department, Resilience Unit

Ms. Aiken provided an overview of the vulnerability assessments previously conducted on Broward County and the new requirements from the FDEP provided in 2021. The State will be conducting a statewide assessment using data provided by the counties and municipalities. Many of the grants require or will a previously submitted assessment in order to be considered. Ms. Aiken provided an overview of the County's GIS methodology to fulfil the state requirements. She then provided a brief review of the impacts that sea level rise will have on County assets under the scenarios required by the state. She concluded with her contact information and an offer to provide data sets.

Dr. Jurado followed with the offer to provide help and the data sets to any of the municipalities to assist them in their Resilient Florida Grant Program requirements. Dr. Jurado provided clarification to a question of the modeling results and the oversimplifications of the drainage systems. The County has explored the compounded effects of climate change in more advanced models, that are far superior to the requirements of the state.

D. Fort Lauderdale King Tide Update (20p, 10d)

Dr. Nancy Gassman, CC-P, LEED Green Associate, Assistant Director of Public Works, Sustainability, City of Fort Lauderdale

Dr. Gassman provide an overview of the efforts in Fort Lauderdale for the King Tide season and how the municipality is adapting to sea level rise and climate change.

Dr. Gassman provided an update to Fort Lauderdale's response to the king tide season for 2021. Regular high tides are about 0.5 ft, and the flooding threshold is about 1.3ft NAVD, the king tides exceed this elevation. Fort Lauderdale conducts an outreach campaign each year to the impacted neighborhoods. The tides are increasing over time and occur across more months and can be compounded by other events. Dr. Gassman then explained the resilience upgrades that the City has completed and is performing to mitigate the impact of tidal and rainfall events.

Dr. Gassman closed with information about the moon wobble and how this change will increase the tidal flooding in mid 2030s - 2040

E. Internship Program Update (10p, 10d)

Kevin Carter, Assistant to the Director, Broward County Water and Wastewater Services, and Randolph Brown, Utilities Director, City of Pompano Beach

Mr. Carter began the presentation with a review of the Operator Education Pilot Program that will help to increase the number of operators entering the workforce and college. Upcoming retirements will impact the workforces across industries. With less people in the workforce, there is more competition and less candidates for positions. The industry recognizes this and has been implementing programs and scholarships to help fill this need and provide opportunities across groups.

The Broward County program will participate with UF TREEO curriculum and provide training for class c and b training courses. Students will receive a UF certificate of completion and can be dual enrolled that will earn college credits. BCPS presentation from a previous meeting helped to connect the utilities to get the program started in January 2022.

Mr. Brown then shared some photos of the field trip that toured the facilities and was attended by 11 BCPS and 6 staff members and some of the highlights about recruiting some of these future operators. He provided insight into the program schedule and some additional benefits such as tutoring that will be made available from the utilities.

VII. New Business and Open Discussion

Mr. Brown brought up the issue of stormwater credits and pervious pavement. Broward County does not provide credits for pervious pavement, and Mr. Brown hopes that something can be done about that. Dr. Jurado added she would reach out to the relevant division for additional information.

VIII. Next scheduled TAC Meeting: February 18, 2022, 9:30 a.m.

IX. Next scheduled Joint WAB/TAC Meeting: January 14, 2022, 10:00 a.m.

X. ADJOURN