

MIAMI BEACH

COMMISSION MEMORANDUM

TO: Honorable Mayor and Members of the City Commission
FROM: Rafael A. Paz, City Attorney
DATE: March 27, 2023

SUBJECT: A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, DIRECTING THE ADMINISTRATION TO PRIORITIZE, AS PART OF THE FY 2024 BUDGET PROCESS, FUNDING FOR IMPROVEMENTS TO ADDRESS THE WATER QUALITY CONCERNS RELATING TO THE PARK VIEW ISLAND CANAL.

ANALYSIS

Pursuant to the request of Commissioner Alex Fernandez, the above-referenced Resolution is submitted for consideration by the Mayor and City Commission at the March 27, 2023 Commission meeting.

SUPPORTING SURVEY DATA

N/A

FINANCIAL INFORMATION

N/A

Is this a "Residents Right to Know" item, pursuant to City Code Section 2-14?

Yes

Does this item utilize G.O. Bond Funds?

No

Legislative Tracking

Office of the City Attorney

Sponsor

Commissioner Alex Fernandez

ATTACHMENTS:

Description

- ▣ Resolution
- ▣ Attachment

RESOLUTION NO. _____

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, DIRECTING THE ADMINISTRATION TO PRIORITIZE, AS PART OF THE FY 2024 BUDGET PROCESS, FUNDING FOR IMPROVEMENTS TO ADDRESS THE WATER QUALITY CONCERNS RELATING TO THE PARK VIEW ISLAND CANAL.

WHEREAS, the City of Miami Beach is committed to maintaining and improving the quality of its waterways and Biscayne Bay as they are critical to environmental, economic, and recreational prosperity, and to the health, safety, and welfare of the citizens of the City of Miami Beach; and

WHEREAS, following a sanitary sewer overflow caused by a contractor in March of 2020, the high bacteria levels did not decrease to meet State parameters, and a “No Contact Advisory” has been issued for the Park View Canal Kayak Launch location since that time; and

WHEREAS, the City implemented various strategies to isolate potential sanitary sewer leaks, including multiple dye testing, deep cleaning of the stormwater lines, water quality testing throughout the stormwater system, sediment sampling in the canal, CCTV inspections, and smoke testing to determine potential illegal cross connections between private properties sewer lines and the City's stormwater system; and

WHEREAS, the City performed advanced gene biomarker analysis to identify fecal indicators for humans, dogs, or birds at locations within the canal, and the results of the analysis in 2020 and 2021 indicated that fecal coliform from dogs and birds were present at high concentrations in samples; and

WHEREAS, the City retained ESciences, a third-party consultant specializing in environmental investigations, to conduct a thorough analysis of the data which indicated more studies were necessary to draw conclusions in the data set, as trends could not be identified; and

WHEREAS, in light of the continued elevated levels, the City procured the services of Dr. Solo-Gabriele, Associate Dean for the University of Miami College of Engineering, a global water quality expert in evaluating microbes in water and sediments; and

WHEREAS, Dr. Solo-Gabriele and the University of Miami team conducted a four-month sampling study to help determine the geographic or point-source(s) of bacteria; and

WHEREAS, the study discovered that freshwater surface layer of the canal had higher levels of bacteria, and that rainfall was the main predictor of poor water quality in the canal, with sediments from the canal shoreline, the streets, and sediments in catch

basins, and shallow groundwater entering the canal from the 81-acre catchment area to the east and despite rigorous sanitary sewer testing, the system including private connections is aging and cannot be ruled out; and

WHEREAS, the study identified many sources contributing to degraded water quality including exotic and feral animal feces, the homeless population, dog waste, litter, and leaking dumpsters in commercial areas; and

WHEREAS, a community workshop was held in North Beach on January 24, 2023, the draft final report with the study's recommendations was released via Letter to Commission (LTC) and on MBRisingAbove.com on January 23, 2023 for public comment through February 24, 2023; and

WHEREAS, City staff from several Departments have worked to address many of these findings by providing an increased level of services, and have developed an action plan that combines the study recommendations with actions that include both funded and unfunded items; and

WHEREAS, there are several impactful short-, mid-, and long-term recommended actions that include dredging within the Park View Canal to increase flushing and target stormwater and sanitary sewer infrastructure improvements; and

WHEREAS, the short-term actions have funding, but the mid- and long-term actions, referenced in the attached list of improvements, will require additional funding to address recommendations.

NOW, THEREFORE, BE IT DULY RESOLVED BY THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, that the Mayor and City Commission hereby direct the Administration to prioritize, as part of the FY 2024 budget process, funding for improvements to address the water quality concerns within Park View Island Canal.

PASSED AND ADOPTED this ____ day of March 27, 2023.

ATTEST:

Dan Gelber, Mayor

Rafael E. Granado, City Clerk

(sponsored by Commissioner Alex J. Fernandez)

APPROVED AS TO
FORM & LANGUAGE
& FOR EXECUTION



City Attorney

3-20-23
Date



FROM THE OFFICE OF MIAMI BEACH

COMMISSIONER ALEX J. FERNANDEZ

PARK VIEW ISLAND CANAL
WATER QUALITY IMPROVEMENTS

FY23: Funded

- Surveys required for dredging \$500K
- Lining wastewater pipes Park View Island \$338,227

FY24: Unfunded

- Retrofit gravity stormwater treatment \$200K

FY25: Unfunded

- Retrofit gravity stormwater treatment \$2M
- Dredge Canal \$2M
- Design/Replacement of stormwater/sanitary sewer \$19.5M

FY27: Unfunded

- Design/Replacement of stormwater/sanitary sewer \$104M