



# MIAMI BEACH

City of Miami Beach, 1700 Convention Center Drive, Miami Beach, Florida 33139, [www.miamibeachfl.gov](http://www.miamibeachfl.gov)

## COMMITTEE MEMORANDUM

TO: Sustainability and Resiliency Committee

FROM: Jimmy Morales, City Manager

DATE: July 19, 2019

SUBJECT: **DISCUSS THE PUMP STATION PLUMES ON WEST AVENUE.**

### BACKGROUND

The City of Miami Beach has received reports of dark colored discharges into Biscayne Bay near the outfall for the 6th Street stormwater pump station. Upon receiving notice of these reports, staff immediately mobilized conducting water quality tests and evaluating possible options to improve stormwater treatment upstream of the discharge. Water quality test results exhibited levels consistent with groundwater and urban stormwater discharge. No indication of sewage or hydrocarbons was present in the discharge samples.

Mitigation efforts originally included the lining of the upstream drainage basin. Preliminary bids were received for the lining of 175 feet of box culvert located immediately upstream of the 6th St. outfall. However, due to a number of factors, including the culvert's structural integrity and the possibility of its future replacement, the strategy is being reevaluated. Further compounding the issue, was the need to line the remainder of the upstream drainage basin that could include an additional 2,000 feet of box culvert in similar conditions. Thus, the lining of the 175 feet may not completely resolve the dark colored discharges.

### ANALYSIS

Public Works Staff is currently developing a conceptual design to provide additional water quality at the City's stormwater outfalls. The design contemplates combining different methods of storing or exfiltrating the initial runoff that contains most of the contaminants, in order to achieve the most environmentally responsible disposal of urban rainfall runoff. This work is being explored in conjunction with the development of the new park at the 600 block of West Avenue. A final design will be required prior to applying for permits and the permitting process will require the approval of multiple regulatory entities.

Since the last presentation at SRC, Public Works staff has held a pre-application meetings with regulatory entities and is currently working to finalize a 30% design. At the pre-application meetings staff was advised by FDEP that the permitting process may take nine months to complete. However, both DERM and FDEP were supportive of these efforts and encouraged staff to present the design when ready. Once the preliminary mechanical conceptual design is approved, Public Works will proceed with finalizing the design, and initiating the local and state permitting process.

### CONCLUSION

The following is presented to the Sustainability and Resiliency Committee for discussion and further direction.

JLM/ETC/RC/JJF/mj