

May 19, 2020

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Consent Order OGC No. 16-1487
Consent Order Project 6(h): Force Main Condition Assessment (FMCA)
FMCA Report Comments Response Letter

The City of Fort Lauderdale (City) acknowledges receipt of comments dated May 4, 2020 by the Florida Department of Environmental Protection (FDEP) on the Force Main Condition Assessment Report submitted on March 23, 2020. The purpose of this letter is to respond to the five comments issued.

FDEP Comment No. 1 - All AC pipes need to be replaced. Any escalation near the pipe is expected to cause a failure in the pipe. No AC pipes should remain in the ground. They should be included in the list of CO projects.

City Response to Comment No. 1: The City does not have any AC (asbestos-cement) force main pipelines in its system, therefore no additional pipeline replacement project needs to be added to the list of Consent Order (CO) projects.

FDEP Comment No. 2 - There should be a table with all pipes included in the CO projects with a compliance schedule for completion of the repairs or replacements.

City Response to Comment No. 2: A table with the compliance schedule for all the rehabilitation and replacement projects in the CO will be included in the FMCA report. The report will be reissued to include this information.

FDEP Comment No. 3 - Bayview Drive from NE 21st Street to NE 37th Court and to the suction-side of Repump Station B should be added to the CO projects, considering the multiple breaks in this segment.

City Response to Comment No. 3: To add the rehabilitation or replacement of the existing force main along Bayview Drive from NE 21st Street to the suction side of Repump Station B to Phase II of the CO a three-year extension to the Phase II deadline is requested to be granted by FDEP to complete the project. The City proposes the CO deadline to complete this project be extended to September 30, 2029. The need for an extension is based primarily on the extra time required for the City to fund, plan and allocate

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resources to complete this project.

FDEP Comment No. 4 – The segment from Pump Station B-14 to the 16-inch cast-iron FM on Bayview Drive should be added to the CO projects since this segment is 50+ years old with a subaqueous crossing connected to the other recommended replacement projects.

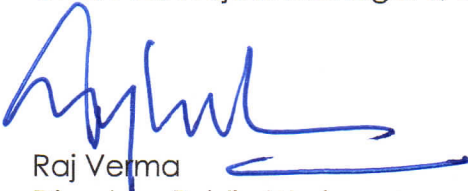
City Response to Comment No. 4: To add the rehabilitation or replacement of the existing force main from Pump Station B-14 to the 16-inch cast-iron force main on Bayview Drive to Phase II of the CO a three-year extension to the Phase II deadline is requested to be granted by FDEP to complete the project. The City proposes the CO deadline to complete this project be extended to September 30, 2029. The need for an extension is based primarily on the extra time required for the City to fund, plan and allocate resources to complete this project.

FDEP Comment No. 5 – There should be a table with all the FM segments that have maximum FM operating pressures over 60 psi. The table should list the actual maximum FM pressures. Excessive pressure might require additional FMs or increased sized FMs to correct the problem.


City Response to Comment No. 5: The attached Figure 1 depicts the maximum pressure in the City's force main system under year 2021 wet weather flow scenario. As shown, there are no areas with pressures over 60 psi. Although there are some areas with pressures within 50 – 60 psi, the City is planning to mitigate these areas through future capital improvement projects that will address these areas and provide systemwide redundancy. This Figure will also be included FMCA report to be reissued.

Based on the response from FDEP to the extension requested in City's response to comments No. 3 and No. 4, the City will reissue the FMCA Report addressing all comments above.

Should you have any questions, or require greater details, please contact Viviana Torres Ortiz, P.E., Project Manager II, at VTorresOrtiz@fortlauderdale.gov or 954-828-6236.



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City of Fort Lauderdale



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Legend

▲ Re-Pump Station

▲ Pump Station

Maximum Pressure

— <10 psi

— 10-20 psi

— 20-30 psi

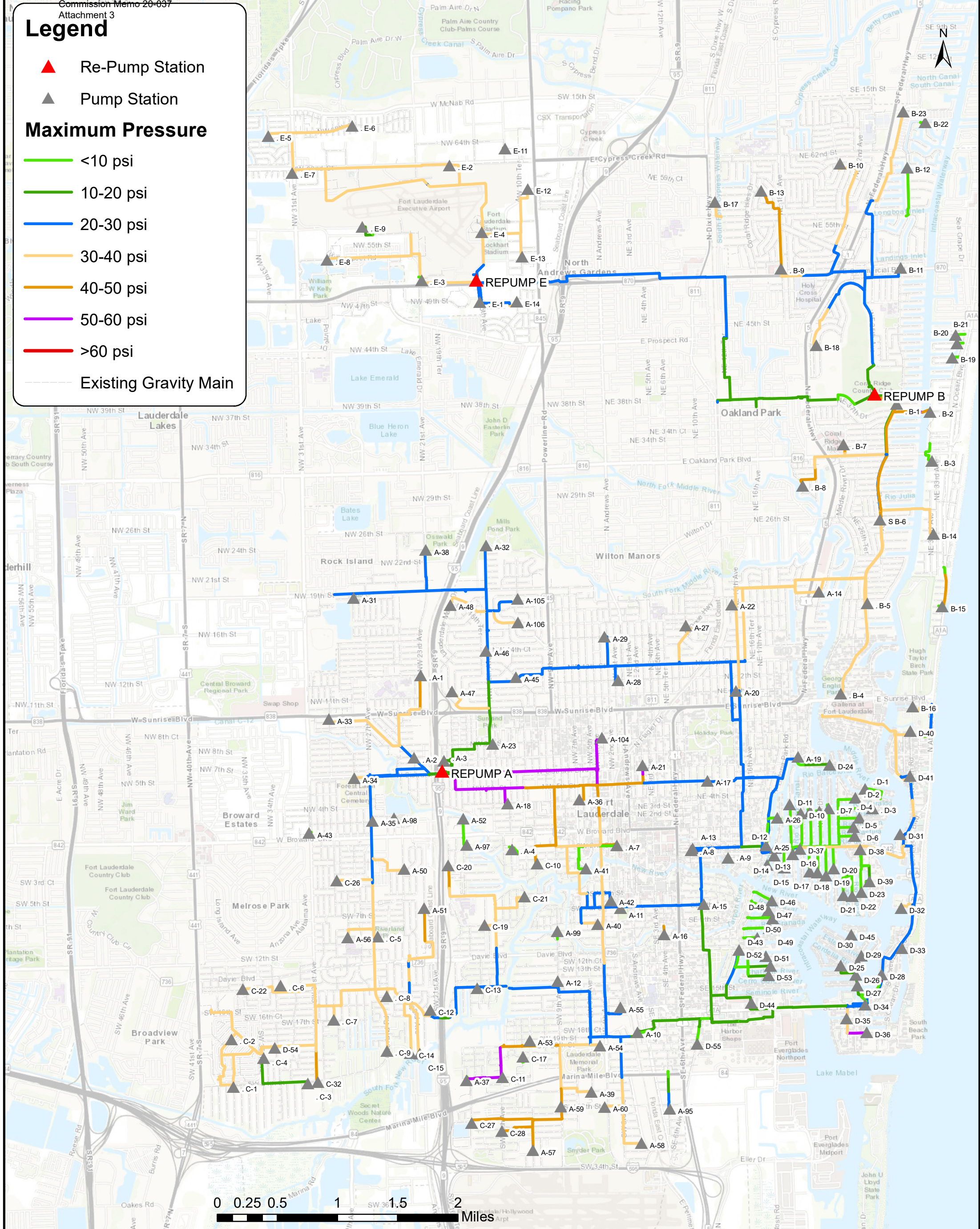
— 30-40 psi

— 40-50 psi

— 50-60 psi

— >60 psi

— Existing Gravity Main



CITY OF FORTLAUDERDALE

Hazen

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City of Fort Lauderdale Sewer Design and Implementation Program

Maximum Pressure Due to Wet Weather Flows in 2021 (6-inch rainfall in 24 Hours)

Figure 1