



Staff Report

TO: Mayor and City Council Members
FROM: Kristine Day, Assistant City Manager
DATE: February 1, 2022
SUBJECT: Resolution Approving the City of Beaumont Wastewater Master Plan

Background and Analysis:

The Wastewater Master Plan (WWMP) is a technical planning and budgetary document that provides a capacity adequacy assessment of the City's sewer collection system (major pipelines and 10 lift stations) to meet the level of service expected by existing customers and to service future growth. The WWMP identifies:

- "What" infrastructure is needed to mitigate existing deficiencies and to service future growth,
- "When" this infrastructure is needed,
- "How Much" it will cost to construct this infrastructure, and
- "Who" pays for this infrastructure.

The WWMP capacity assessment included a sewer flow monitoring program and the development of a GIS-based calibrated hydraulic model. The capacity adequacy evaluation, which included the major sewer pipelines and the 10 lift stations, recommended a list of improvements summarized in the Capital Improvement Program (CIP) with an opinion of probable construction costs to mitigate existing deficiencies and to expand the existing system to service growth.

On July 22, 2021, Akel Engineering presented the Draft Master Plan document in a City Council workshop. (Attachment A – Presentation)

Overall performance of the existing system serving existing customers:

- The study shows the existing sewer system has good system performance,
- Great majority of pipelines meet system performance criteria on capacity, and

- 7 out of the 10 lift stations require capacity upgrades to include redundancy.

Overall performance of the existing system to extend service to future growth:

- Average sewer flows will increase by 300% through the planned buildout, and
- The collection system has adequate capacity to serve future growth with required new improvements.

Upon City Council adoption of the Wastewater Master Plan, City staff will amend the Capital Improvement Plan to reflect the WWMP's projects.

Fiscal Impact:

The cost to prepare this staff report is \$500.

Recommended Action:

Waive the full reading and adopt by title only, "A Resolution of the City Council of the City of Beaumont Adoption of the Wastewater Master Plan."

Attachments:

- A. Presentation from July 22, 2021
- B. Resolution
- C. WWMP Draft Report