



STAFF REPORT

MEETING DATE: March 25, 2025

TITLE:

Wastewater Workshop

AGENDA ITEM SUBMITTED BY:

Curtis Hancock, Director of Water & Wastewater

BACKGROUND/HISTORY:

The City of Bastrop currently has three (3) wastewater treatment plants in operation. Two of the plants are located at 300 Water Street.; Plant 1 (1988) is permitted for 1.04 MGD, and Plant 2 (1975) is permitted for 0.360 MGD. Plant 3, is located at 384 SH 304, and was brought online May 7, 2024, this plant is permitted for 2.0 MGD.

The two plants located at 300 Water Street need rehabilitation from their years of continuous operation. Grit and debris have accumulated in the aeration basin, causing the plants to lose their treatment capacity.

As you know, according to state law, the design for a new wastewater treatment plant must begin when the capacity of the plants which are in operation reach 75%, and then construction must begin when capacity of the plants reach 90% of the permitted wastewater flow.

Below is a summary of the current flows to the east of the river to WWTP 1 & 2 (.800 gpd), and the flows to the west of the river to WWTP 3 (.500 gpd). Staff will have an in-depth discussion with Council on the items during the Workshop Session.

WWTP 1 & 2: In FY26 there are two new developments proposed to come online -- Steel Yard (52,640 gpd) and River Terrace (53,580 gpd). These two developments will add an additional 106,220 gpd, making the total flows 906,220,000 gpd. The 75% rule will take effect at 1.05 MGD. This raises the question of whether a transfer lift station or a 2 MGD plant should be built at this site.

WWTP 3: New development flows are currently being assessed and will be completed and available by March 25, 2025. Staff will discuss the total build-out and a five-year outlook of West Bastrop Village (1,500 LUE's), Pearl River (900 LUE's), Valverde (2006 LUE's), Burluson

Crossing East (250 LUE's), Ironwood (1,350 LUE's), Reed Ranch (627 LUE's), Pecan Park Commercial (846 LUE's), and Corix West during the Workshop.

ATTACHMENTS:

- Excel Spreadsheet