



City of Denton

City Hall
215 E. McKinney Street
Denton, Texas
www.cityofdenton.com

AGENDA INFORMATION SHEET

DEPARTMENT: Water Utilities

ACM: Cassey Ogden

DATE: May 7, 2024

SUBJECT

Consider approval of a resolution of the City of Denton, Texas adopting the City of Denton Wastewater Master Plan; and declaring an effective date.

STRATEGIC ALIGNMENT

This action supports Key Focus Area: Enhance Infrastructure and Mobility.

INFORMATION/BACKGROUND

The City's wastewater collection system is divided into four major drainage basins. The backbone of the wastewater infrastructure in these basins is primarily comprised of a combination of interceptors (large pipes) and lift stations. The wastewater generated throughout the City is collected through a series of smaller pipes, which connect to interceptors that convey the wastewater to the wastewater reclamation facility which is located just north of the Landfill along Mayhill Road. At that facility, the water is treated and then discharged into Lake Lewisville. The City did not have a comprehensive Wastewater Master Plan that encompassed the entire City and its extraterritorial jurisdiction, so a wastewater master plan detailing the wastewater system's expansion was prepared to responsibly accommodate the accelerated growth rate in Denton. The plan provides information that allows the Water Utilities Department to achieve its strategic goal to maintain, operate, and expand our infrastructure to meet community needs relative to the wastewater infrastructure.

The Wastewater Master Plan and the underlying wastewater model serves as the basis for the planning, design, construction, and financing of the wastewater infrastructure for the City of Denton and its extraterritorial jurisdiction. The scope of the plan includes,

- Surveying, identification, and mapping of existing wastewater infrastructure;
- Modeling, validation, and calibration of existing wastewater infrastructure;
- Projections of ultimate wastewater flows for the City at build-out based on the City's Land Use Plan; and
- Identification, mapping, cost estimates, and timing of improvements necessary to accommodate ultimate water demands and wastewater flows compliant with Texas Commission on Environmental Quality regulation

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

Water Utilities presented updates to the Wastewater Master Plan to the City Council during the planning process on October 18, 2022, and June 6, 2023. In addition, updates to the plan were presented to the Public Utility Board on October 6, 2022, May 22, 2023, and December 11, 2023.

RECOMMENDATION

Consider approval of a resolution adopting the City of Denton Wastewater Master Plan; and declaring an effective date.

SUSTAINABILITY MEASURES

The Wastewater Master Plan directly addresses projects required to ensure the long turn sustainability of reliable wastewater service for the City of Denton. Water resource sustainability will be addressed in the One Water Master Plan which is a separate plan that addresses water treatment and distribution, rights, conservation, and water re-use.

ESTIMATED SCHEDULE OF PROJECT

Once adopted this project is complete.

FISCAL INFORMATION

These services will be funded from Wastewater Project Funds.

EXHIBITS

Exhibit 1: Agenda Information Sheet

Exhibit 2: Resolution

Respectfully submitted:
Stephen D. Gay
Director Water Utilities
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