



STAFF REPORT UTILITIES COMMISSION

Agenda Date: 11/7/2024
Agenda Section: Information Only

Department Origination: Public Works

Agenda Item: 2024 Water System Hydraulic Model Update and Water System 20-Year Use Projections Project

Approval Required: No Action Required

BACKGROUND

Work related to the 2024 Water System Hydraulic Model Update and Water System Planning has been initiated with work being completed on:

- **Phase 1 (Water Model Update & Operational Verification).**
 - Field Testing completed
 - Water model geometrics have been updated with current GIS data provided by the City
 - Geolocated demands have been applied to the model for future simulations.
 - **Current Progress:** Hydraulic model calibration is Complete
- **Other Phases – Progress**
 - Phase 2: Water Demand Analysis and Projections
 - Historical demand data compiled in conjunction with billing records to estimate future demand projections, and analyze growth & expansion areas.
 - Met with City planning department to discuss future growth expectations and land-use types.
 - Draft Preliminary 20 Year Water Use Projections completed – Presented to Staff at 9/24/24 progress meeting
 - Ultimate Water system demand projections developed based on Future land use and expansion/development areas
 - Phase 3 – TH 210/371 Trunk Water Main Changes - Water System Model Evaluation(s)
 - Initial analysis completed
 - Recommendations made for realignment of intersection related piping involving reroute and abandonment of various main to accommodate interchange.
 - Phase 4: Ultimate Water System Planning Map
 - Model has been updated ultimate system piping and expansion areas.
 - Future water system operational scenarios in progress.

FINANCIAL IMPLICATIONS

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STAFF RECOMMENDATIONS

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COUNCIL ACTION REQUESTED