



Legislation Text

File #: 23-5145, **Version:** 1

Resolution - A Resolution Authorizing a Contract with Plummer and Associates, Inc. for the Bud Ervin Water Treatment Plant Phase V Expansion for an Amount Not to Exceed \$3,735,921.00 (Utility Fund)

Consider Approval of the Contract with Plummer and Associates, Inc. for the Bud Ervin Water Treatment Plant Phase V Expansion.

Staff recommends approval of the Contract with Plummer and Associates, Inc. for the Bud Ervin Water Treatment Plant Phase V Expansion.

The scope of this contract includes an evaluation of current membrane technologies and suppliers for the replacement of the Bud Ervin Water Treatment Plant's existing membrane system with considerations to expand the treatment capacity of the Bud Ervin Water Treatment Plant up to 75 million gallons per day (MGD). The scope also includes the design of the mechanical, electrical, instrumentation, structural, architectural, HVAC and civil processes required to increase the treatment and production of drinking water.

A Contract-at-Risk (CMAR) will be retained to assist the City of Mansfield and Plummer and Associates with the value engineering, equipment procurement, project management, and construction.

The requested funds are for design services with Plummer and Associates, Inc. in the amount of \$3,735,921.00, which includes a \$200,000 for Special Services for potential design scope changes and other miscellaneous services.

The existing treatment capacity of the Bud Ervin Water Treatment Plant is rated for 45 MGD. Operating trends and regulatory requirements indicate additional treatment capacity is needed for the City of Mansfield to meet new growth demands. The Bud Ervin Water Treatment Plant is designed to meet an ultimate capacity of 60 MGD. Membrane technology improvements may allow treatment capacity improvements up to 75 MGD utilizing the existing treatment infrastructure and distribution system.

The existing Pall membranes were put into service in 2010 with an estimated life expectancy of 10 years when operated at full capacity. While the existing membranes have been thoroughly maintained and operated at less than maximum capacity, replacement of existing membranes is recommended for continued drinking water treatment and production reliability. Further, existing membrane replacement is required for expansion to another membrane technology and manufacturer if selected.

Utility Fund

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