

Agenda Item Details

Meeting	May 14, 2024 - Bryan City Council Second Regular Meeting
Category	6. Statutory (Automatic Approval) Agenda - This agenda consists of items previously approved by Council action such as adoption of items that are part of an approved budget or capital improvement projects, first and only readings of ordinances, interlocal agreements, or action that is required by law or delegated to the City Manager. Items may be removed from the statutory agenda for separate consideration at the request of two Councilmembers.
Subject	F. Approval of a professional services contract with CDM Smith, Inc. for design of the expansion of Thompsons Creek Wastewater Treatment Plant for a not to exceed amount of \$3,323,000
Type	Action (Statutory)
Preferred Date	May 14, 2024
Absolute Date	May 14, 2024
Fiscal Impact	Yes
Dollar Amount	3,323,000.00
Budgeted	Yes
Budget Source	Wastewater Fund
Goals	Infrastructure Service

Summary:

Thompsons Creek Wastewater Treatment Plant (Thompsons Creek) provides sewer service to Bryan's west side. The plant commenced operation in May 2013. Thompsons Creek is constructed to treat an annual average flow of 2.0 million gallons per day (MGD) and is presently treating a little more than 1 MGD. The Texas Commission on Environmental Quality (TCEQ) requires permittees to initiate engineering and financial planning for plant expansion when the daily treated volume reaches 75% of the permitted annual average flow (1.5 MGD) for three consecutive months, and then begin construction of the expansion when the daily treated volume reaches 90% of the permitted annual average flow (1.9 MGD) for three consecutive months.

Significant growth is expected for the Thompsons Creek Sewer Basin in the near future. Annexation has vastly expanded the City's land footprint in west Bryan. The incorporation of Texas A&M University RELLIS Campus and surrounding land into Bryan opens the door for development opportunity in this area.

Future plant expansion was incorporated into Thompsons Creek's original design. This is value-added by minimizing outages and other disruptions needed to accommodate the addition of equipment, tanks, and piping into the plant's layout and operation. This foresight also was placed in permitting. Thompsons Creek's discharge permit presently authorizes expansion of the plant to a final build capacity of 4.0 MGD (doubling its current size). Securing this approval in the discharge permit greatly reduces time spent in regulatory review and coordination for plant expansion.

The presented contract serves as the first step in addressing the future capacity needs of the plant and allowing design of the 2.0 MGD expansion, applications engineering for automation and control, and bidding services for advertisement of the construction project. The presented contract also satisfies regulatory coordination with TCEQ for permitting. In addition to designing the plant expansion, the scope includes modifying the discharge permit from 4.0 MGD to 8.0 MGD to accommodate future growth anticipated in the corridor.

CDM Smith (CDM) is the original design engineer for Thompsons Creek WWTP. CDM's expertise and familiarity with Thompsons Creek is value added for this project. A breakdown of deliverables is listed below:

Task 1: Project Management \$108,000
Task 2: Preliminary Investigations \$34,000
Task 3: Design Phase \$1,803,000
Task 4: Bid Phase \$48,000
Task 5: Time and Materials \$835,000
Task 6: Additional Services \$495,000
Total \$3,323,000

Funding for this project will come from the Wastewater Fund.

Staff Analysis and Recommendation:

Water Services recommends the City Council award a professional services contract to CDM Smith, Inc. for design of expansion of Thompsons Creek Wastewater Treatment Plant in the not to exceed amount of \$3,323,000. Added capacity to the plant is needed to meet future sewer needs of the sewer basin. The presented contract will satisfy the project design and regulatory elements required by the Texas Commission on Environmental Quality for this project.

Options:

1. Award the proposed Contract
2. Do not award the proposed Contract and provide staff direction

Attachments:

1. Proposed Contract

Professional Srvcs Contract_CDM_Thompsons Creek Expansion.pdf (1,341 KB)