



# STAFF REPORT

**MEETING DATE:** February 14, 2023

**TITLE:**

Consider action to approve Resolution No. R-2023-21 of the City Council of the City of Bastrop, Texas, approving a professional engineering services contract with Freese and Nichols, Inc. (FNI) for the Wastewater Treatment Plant (WWTP) # 3 – Phase II (expansion) for a not to exceed amount of Three Hundred Seventy-One Thousand, One Hundred Eighteen Dollars (\$371,118.00); authorizing the City Manager to execute all necessary documents; providing for a repealing clause; and establishing an effective date.

**AGENDA ITEM SUBMITTED BY:**

Fabiola de Carvalho, AMP MIAM, Director of Engineering and Capital Project Management.

**BACKGROUND/HISTORY:**

The City of Bastrop City Council authorized the design and construction of the new Wastewater Treatment Plant #3 in 2018 and 2020, respectively.

The new Wastewater Treatment Plant #3, with a permitted average daily discharge of 2 Million Gallons Per Day, is currently in construction.

Chapter 217 of the Texas Administrative code requires the design for a new wastewater treatment plant to begin when the existing plant reaches 75% of capacity and construction of a new plant to begin at 90% of existing plant capacity. Currently the existing wastewater treatment plants are at 68% of plant capacity and have reached 90% of plant capacity in 2021. Based upon the review of the plant's current wastewater flows, projected growth within the City of Bastrop, and within the CCN of the City's Wastewater System, it is anticipated that WWTP #3 could exceed the 75% regulatory design threshold by 2024.

On July 22 and 29 of 2022, the City published a Request for Qualifications for Professional Engineering Services for the WWTP# 3 Phase II (expansion). The City received five Statements of Qualifications from various consultants. After evaluating the qualifications and conducting interviews, the City selected Freese & Nichols, Inc. (FNI), as the most qualified firm for this project. City started negotiations with FNI shortly after selection and were finalized in January of 2023.

As the Engineer, selected for this project, FNI has recommended the City to undertake a Preliminary Engineering Study to better define and evaluate anticipated wastewater characteristics; various treatment processes; potential reuse opportunities; and the likely near term and potential long term Texas Pollutant Discharge Elimination System (TPDES) permit limits. Based on the recommendations of the study, FNI will develop and evaluate alternatives for expansion of the WWTP#3 to achieve as many of the CITY's goals and objectives as possible. At the conclusion of this Preliminary Engineering Study, and upon request by the CITY, FNI will

develop a proposed Scope of Services for the Design Phase Engineering Services. If the CITY decides to construct Phase II with a capacity greater than 2 MGD, preparation of a TPDES Major Permit Amendment application will be required. Development of estimated wastewater flows from within the current CCN and serviceable areas outside the CCN will be developed as part of Wastewater Master Plan project and will be utilized for this project.

The City is currently negotiating the Scope of Services for the Wastewater Master Plan project and once finalized, the Engineering and Capital Project Management Department will request your consideration and authorization of that contract.

This study is part of City's commitment to serve near and long-term growth and demand for City's wastewater services.

The Notice to Proceed will be provided in February 2023, and the study is expected to be completed in July 2023.

#### **FISCAL IMPACT:**

FY23 Annual Budget

- Certificate of Obligation (CO), Series 2021

#### **RECOMMENDATION:**

Consider action to approve Resolution No. R-2023-21 of the City Council of the City of Bastrop, Texas, approving a professional engineering services contract with Freese and Nichols, Inc. (FNI) for the Wastewater Treatment Plant (WWTP) # 3 – Phase II (expansion) for a not to exceed amount of Three Hundred Seventy-One Thousand, One Hundred Eighteen Dollars (\$371,118.00); authorizing the City Manager to execute all necessary documents; providing for a repealing clause; and establishing an effective date.

#### **ATTACHMENTS:**

- Exhibit A: Resolution No. R-2023-21
- Exhibit B: Professional Services Contract between the City of Bastrop and Freese and Nichols, Inc.