

# Mayor and Council Communication

DATE: 06/14/22

M&C FILE NUMBER: M&C 22-0407

LOG NAME: 60VCWRFAERATION-BVI

**SUBJECT**

(CD 5) Authorize Execution of an Engineering Agreement with Black & Veatch Corporation, in the Amount of \$350,240.00 for the Village Creek Water Reclamation Facility Aeration System Improvements Project and Adopt Appropriation Ordinance to Effect a Portion of Water’s Contribution to the Fiscal Years 2022-2026 Capital Improvement Program

**RECOMMENDATION:**

It is recommended that the City Council:

1. Authorize execution of an engineering agreement with Black & Veatch Corporation, in the amount of \$350,240.00, for Village Creek Water Reclamation Facility Aeration (Localized Air Blower) System Improvements project; and
2. Adopt the attached appropriation ordinance adjusting estimated receipts and appropriations in the Water & Sewer Revenue Bonds Series 2022 Fund by decreasing estimated receipts and appropriations in the Unspecified – All Funds project (City Project No. UNSPEC) in the amount of \$397,240.00 and increasing estimated receipts and appropriations in the Village Creek Water Reclamation Facility Localized Air Blower System project (City Project No. 103650) by the same amount, to effect a portion of Water’s contributions to Fiscal Years 2022-2026 Capital Improvement Program.

**DISCUSSION:**

This Mayor and Council Communication (M&C) is to authorize the execution of an engineering agreement with Black & Veatch Corporation in the amount of \$350,240.00, for the preparation of conceptual design for the VCWRF aeration system improvements.

The Village Creek Water Reclamation Facility (VCWRF) is a 166 Millions of Gallons per Day rated capacity activated sludge wastewater system comprised of screening, primary clarifiers, secondary treatment, filtration, chlorine disinfection, de-chlorination, and high rate clarification during wet-weather conditions.

The primary air blower system operates air blowers to provide air for the Plant Aeration Basins, Chlorine Contact Basins (21 & 22 and 31 & 32), Deep Media Filters (Filters 1-20) and Traveling Bridge Filters (Filters 21-32).

The proposed scope of services include the following: develop options to optimize process air, evaluate existing blowers to meet current and future air demands and associated risks, evaluate options for air valving and piping temporary blower system to provide air to Chlorine Contact Basins, Deep Media Filters and Traveling Bridge Filters, and plant aeration system, evaluate looping blower system header piping to provide redundancy, improve air distribution, and improve blower efficiency, and complete conceptual design and include final recommended alternatives that successfully addresses the issues identified.

In addition to the contract cost, \$47,000.00 is required for project management and material testing.

It is the practice of the Water Department to appropriate its CIP plan throughout the fiscal year, instead of within the annual budget ordinance, as projects commence, additional funding needs are identified, and to comply with bond covenants. The actions in the M&C will appropriate funds in support of the Water’s portion of the City of Fort Worth’s Fiscal Years 2022-2026 Capital Improvement Program, as follows:

Capital Fund Name	Project Name	FY2022 CIP Appropriations	Authority	Budget Change (Increase/Decrease)	Revised FY2022 Budget
56020 – W & S Rev Bonds Series 2022	103650 – VCWRF Localized Air Blower Sys	\$0.00	This M&C	\$397,240.00	\$397,240.00

Funding is currently available in the Unspecified-All Funds project within the W & S Rev Bonds Series 2022 Fund for the purpose of funding the VCWRF Localized Air Blower Sys project.

Appropriations for the VCWRF Localized Air Blower Systems Improvements are as depicted below:

Fund	Existing Appropriations	Additional Appropriations	Project Total*
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W & S Rev Bonds Series 2022 – Fund 56020	\$0.00	\$397,240.00	\$397,240.00
Project Total	\$0.00	\$397,240.00	\$397,240.00

**\*Numbers rounded for presentation.**

This project will have no impact on the Water Department's operating budget when completed.

Business Equity: Black & Veatch Corporation. is in compliance with the City's Business Equity Ordinance by committing to 11 percent Business Equity on this project. The City's Business Equity goal on this project is eight percent.

The project is located in COUNCIL DISTRICT 5.

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**FISCAL INFORMATION / CERTIFICATION:**

The Director of Finance certifies that funds are currently available in the Unspecified - All Funds within W & S Rev Bonds Series 2022, and upon approval of the above recommendations and adoption of the attached appropriation ordinance, funds will be available in the W & S Rev Bonds Series 2022 Fund for the VCWRF Localized Air Blower Sys project to support the approval of the above recommendations and execution of the engineering agreement. Prior to any expenditure being incurred, the Water Department has the responsibility of verifying the availability of funds.

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