

RESOLUTION R2025-XX

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MANTECA, STATE OF CALIFORNIA, APPROVING AMENDMENT NO. 1 TO THE AGREEMENT FOR PROFESSIONAL SERVICES WITH CAROLLO ENGINEERS, INC. FOR THE WQCF AMMONIA SIDESTREAM TREATMENT (CIP NO. 25005) AND ULTRA-VIOLET DISINFECTION SYSTEM REHABILITATION (CIP NO. 25004) PROJECT FOR AN AMOUNT NOT-TO-EXCEED \$579,422 AND AUTHORIZING THE CITY MANAGER OR DESIGNEE TO EXECUTE THE AMENDMENT AND TAKE ALL APPROPRIATE ACTIONS NECESSARY TO CARRY OUT THE PURPOSE AND INTENT OF THE RESOLUTION.

WHEREAS, in March 2022, the City of Manteca (City) completed a capacity assessment study (Study) for the Wastewater Quality Control Facility (WQCF). The Study identified 10 interim improvements needed to improve the WQCF treatment process among them was the Ammonia Sidestream Treatment Project:

1. Glycerin Injection System (completed and in-service)
2. Replace Waste Activated Sludge (WAS) Pumps (in construction)
3. Replace Return Activated Sludge (RAS) Pumps (in construction)
4. Replace Internal Mixed Liquor Recycle Pumps (in construction)
5. Fix Flow Split to North Plant Aeration Basin (in construction)
6. Add New Independent Mixing System to Zone B (in construction)
7. Add Process Aeration Control to Improve Monitoring and Control of Denitrification (in construction)
8. Ammonia Sidestream Treatment (included in this project)
9. Centrifuge No.3 or Equivalent (bids received March 2025)
10. Add DAF No.3 or Equivalent (bids received March 2025); and

WHEREAS, in March 2024, the City adopted the 2024 Wastewater Master Plan which identified additional interim improvement projects needed to improve the WQCF treatment process and among them is the Ultra-Violet Disinfection System Rehabilitation; and

WHEREAS, on August 6, 2024, the City entered into an Agreement (C2024-120) for Professional Services with Carollo Engineers, Inc. (Carollo) for the preparation of a predesign report (PDR) as a basis of design for the Ammonia Sidestream Treatment (CIP No. 25005) and Ultra-Violet (UV) Disinfection System Rehabilitation (CIP No. 25004) Project ("Project") to ensure continued permit and regulatory compliance; and

WHEREAS, Carollo has completed the PDR in January 2025 that recommends the following:

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- Sidestream treatment facilities for treatment of centrate by the Anita Mox De-Ammonification process
- New UV disinfection structure with Trojan UVSigna 2-Row system
- New electrical building for UV system
- Yard piping, paving and grading, and other site civil improvements as needed; and

WHEREAS, staff explored a variety of alternative delivery methods beyond the standard Design-Bid-Build to try and accelerate the project delivery schedule to continue to meet current treatment requirements. Staff concluded that the Progressive Design Build (PDB) delivery method allows for the best balance for control of scope, fee, and schedule as City or City's Agent would work directly with the PDB team to work on the design and start construction at the same time; and

WHEREAS, staff recommends approving Amendment No. 1 to the Agreement to expand Carollo's tasks and fee in the amount of \$579,422 to serve as the City's Agent in moving forward with delivering the projects via a PBD method due to the following:

- The PDB process will allow these critical plant capacity projects to be completed most expeditiously.
- The Ammonia Sidestream treatment is a new process that can be designed/constructed in parallel with current plant processes.
- After initial evaluation, the best alternative to updating the UV system is to install a parallel system to operate alongside existing units
- Progressive Design-Build could allow for the ordering of long lead items and starting phases of construction as early as Summer 2025; and

WHEREAS, the City Council has considered all information related to this matter, as presented at the public meetings of the City Council identified herein, including any supporting reports by City Staff, and any information provided during public meetings.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Manteca, as follows:

1. The City Council hereby finds that the facts set forth in the recitals to this Resolution are true and correct, and establish the factual basis for the City Council's adoption of this Resolution.
2. The City Council hereby approves Amendment No. 1 to the Agreement for Professional Services with Carollo Engineers, Inc. for the WQCF Ammonia Sidestream Treatment (CIP No. 25005) and Ultra-Violet Disinfection System Rehabilitation (CIP No. 25004) Project for an amount not-to-exceed \$579,422.
3. The City Council hereby authorizes the City Manager or designee to execute the Amendment, apply for permits, apply for State and Federal

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grants, solicit project funding support, complete and execute all associated documents, and take all appropriate actions necessary to carry out the purpose and intent of the resolution.

4. This Resolution shall take effect immediately upon its adoption.

I HEREBY CERTIFY that the foregoing Resolution was duly adopted by the City Council of the City of Manteca at a public meeting of said City Council held on the 15th day of April, 2025, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

MAYOR: _____
GARY SINGH
Mayor

ATTEST: _____
CASSANDRA CANDINI-TILTON
City Clerk