

**METRO JPA/TAC**  
**Staff Report**  
**Date: 6/3/2021**

**Project Title:**

Pure Water Program – Amendment No. 3 to the Agreement with AECOM Technical Services, Inc. for Design Engineering Services for the Morena Pump Station and Conveyance System Project

**Presenter(s) Name:**

John Stufflebean

**Presenter(s) Title:**

Assistant Director

**Requested Action:**

Approve Amendment No. 3 to the design engineering services agreement between the City of San Diego and AECOM Technical Services, Inc. for the Morena Pump Station and Conveyance System project; and forward item to Metro JPA/ Metro Commission for approval. Amendment No. 3 is for a total not to exceed amount of \$5,801,751, which will be utilized for construction support services. This action will also extend the contract term for an additional 5 years.

**Recommendations:**

Approve Amendment No. 3 to the design agreement

Metro TAC:	Approve the subject item and forward to Metro JPA/ Metro Commission for approval
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	N/A

**Fiscal Impact:**

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	It is estimated that the funding will be allocated as follows: Wastewater: 88% (approximately \$5,105,541), Water: 12% (approximately \$696,210) (Metro: 100%, Muni: 0%).
Fiscal impact to the Metro JPA:	33.5% of Metro cost (approximately \$1,710,356)

**Capital Improvement Program:**

New Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
Existing Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Upgrade/addition <input type="checkbox"/> Change <input type="checkbox"/>

**Previous TAC/JPA Action:**

None

**Additional/Future Action:**

Present item to Metro JPA/ Metro Commission for approval on June 2021.

**City Council Action:**

City Council approval is anticipated on July 2021.

**Background:** *Provide background information on the need for the project*

San Diego's imported water supplies face increasing stresses from a variety of sources. As a result, the region's supplies are becoming less reliable and more expensive. These circumstances, and the threat limitation on San Diego's water supplies, have intensified the need for new sources of water. Pure Water San Diego is the City of San Diego's (City) 20-year program to provide a safe, secure and sustainable local drinking water supply for San Diego. Recycled water will be turned into drinkable water by water purification technology. Further, Pure Water's system-wide reuse will significantly reduce flows to the Point Loma Wastewater Treatment Plant (PLWTP) and will make San Diego more water independent. On April 29, 2014, City Council adopted Resolution Number R-308906 supporting the Pure Water Program. Pure Water implementation includes design and construction of new treatment and conveyance facilities. To ensure quality design and construction of future Pure Water facilities, the Public Utilities Department has elected to obtain professional engineering and technical services for completing the design work.

**Discussion:** *Provide information on decisions made to advance the project*

One of the currently on-going projects that is being executed under the Pure Water Program is the Morena Pump Station and Conveyance project which will convey annual average of 32 million gallons per day (mgd) of wastewater via a 48-inch diameter force main to the North City Water Reclamation Plant (NCWRP). It will return an annual average 6 mgd of brine waste created from the reverse osmosis process at the North City Pure Water facility (NCPWF) and an annual average of 4 mgd of centrate created from the centrifuges at the Metropolitan Biosolids Center (MBC). The brine will be returned via a 30-inch diameter pipeline to a discharge junction structure downstream of the Morena Pump Station influent piping. Both pipelines will be approximately 10.7 miles long and predominantly reside in a common trench for much of the alignment.

In December 9, 2016, the City executed an agreement with AECOM Technical Services, Inc. to perform design and construction support services for the Morena Pump Station and Conveyance Project. The original Agreement is on file in the Office of the City Clerk as Document No. R-310735. The said Agreement was issued for an amount not to exceed \$15,875,255 for a duration of five (5) years.

On May 25, 2018, City Council approved Amendment No. 1 to the original agreement with AECOM Technical Services, Inc. to revise the Phased Funding Schedule at no additional cost, by moving funds from later phases to earlier phases to provide the design professional (AECOM) adequate funding to complete the design and avoid delays in project delivery and start of the construction phase of the project.

For Amendment No. 2 to the phase funded agreement with AECOM Technical Services, Inc., this is to revise Exhibit B – Compensation and Fee Schedule at no additional cost, by transferring \$1,053,114 from Phase C – Construction Phase Services into Phase A – Design Services. Additionally, Phase A – Design Services will reallocate unused funds from several task groups and transfer it into Task Group 7 – Final Design Services.

Since the initiation of the design and through the completion of the design efforts for all 4 construction packages for Morena Pump Station and Conveyance System project, it has been determined that additional construction support services are needed to support projects at this magnitude. As the design of these projects advanced, the design team re-evaluated the efforts that will be needed during the construction. It was determined that higher number of Request for Information (RFI), submittals, coordination meetings, special inspections, and other technical services are required that was not anticipated initially at the beginning of the design. As a result, the City of San Diego requested for AECOM Technical Services, Inc. to submit a proposal to address the required budget for future port

services that are needed to complete Morena Pump Station and Conveyance System project.

In 2019, the Associated General Contractors of America (AGC), San Diego Chapter, filed a lawsuit against the City of San Diego which delayed the implementation the Morena Pump Station and Conveyance System project by approximately 18 months. The litigation not only delayed the project completion, but it also resulted in cost implications to the design agreement. It is estimated that the cost increased by approximately \$150,000 because of the level of effort that was spent by the Design Professional on updating the plans and specifications to the latest standards and to prepare the construction packages accordingly.

The Amendment No. 3 to the design agreement with AECOM Technical Services, Inc. will replenish the funding reallocation that was done as part of Amendment 2 as well as provide the necessary funding to support all the related construction support services. The consultant will perform the following services: request for clarifications and deviations, submittal and shop drawings, clarifications for change orders, record documents, project meetings, site visits, substantial completion certification, finalization of operation and maintenance manuals, as built drawings, substitution requests and start up assistance. Amendment No. 3 is for a total not to exceed amount of \$5,801,751 which in turn will increase the total contract amount from \$15,875,255 to \$21,677,006, thus increasing the contract value by 36%.

To date, approximately \$13,554,179 of the existing total contract amount of \$15,875,255 (85%) has been spent.

In addition, Amendment No. 3 will extend the contract term for an additional 5 years in order to complete all the required work for the Morena Pump Station and Conveyance System project. As a result, the total contract duration is for 10 years and aligns with the overall construction schedule for the Pure Water Program.

**Bid Results:** *If bidding was done provide bidding format and results*  
N/A