



Folsom City Council Staff Report

MEETING DATE:	3/14/2023
AGENDA SECTION:	Consent Calendar
SUBJECT:	Resolution No. 11003 – A Resolution Authorizing the City Manager to Execute Amendment No. 1 to the Agreement (Contract No. 173-21 22-029) with HDR Engineering, Inc. for Engineering Services for the Water Treatment Plant Backwash and Recycled Water Upgrades Project and Appropriation of Funds
FROM:	Environmental and Water Resources Department

RECOMMENDATION / CITY COUNCIL ACTION

The Environmental and Water Resources Department recommends the City Council pass and adopt Resolution No. 11003 – A Resolution Authorizing the City Manager to Execute Amendment No. 1 to the Agreement (Contract No. 173-21 22-029) with HDR Engineering, Inc. for Engineering Services for the Water Treatment Plant Backwash and Recycled Water Upgrades Project and Appropriation of Funds.

BACKGROUND / ISSUE

The Environmental and Water Resources (EWR) Department identifies water infrastructure rehabilitation and replacement projects through waster master plans, ongoing water condition assessment programs, and regulatory changes. EWR staff completed an analysis of potential Water Treatment Plant capacity and reliability projects. Through these efforts, EWR staff identified the Water Treatment Plant Backwash and Recycled Water Upgrades Project as a priority project.

There are two Reclaimed Backwash (RBW) ponds (RBW #1 and RBW #2) at the Water Treatment Plant (WTP) that store backwash water, which is water used to clean the filters. This backwash water can be recycled back to the headworks of the WTP. The United States Environmental Protection Agency (USEPA) allows water agencies to recycle up to 10% of the backwash water based on the water treatment plant capacity. The WTP’s current firm capacity

is 50 million gallons per day (MGD), and 10% of the current firm capacity, or 5.0 MGD of backwash water, can be recycled back into the system. This project will increase redundancy and reliability to allow for 10% of the firm capacity, or 5.0 MGD of backwash water, to be recycled back into the WTP system. Currently, the infrastructure can only recycle 3.5 MGD. Additionally, increasing the recycled water capacity greatly reduces the City's risk for the RBW ponds to potentially overflow.

The current piping configuration at the inlet of the RBW ponds only feeds RBW #2. This project will upgrade the piping arrangement to feed either RBW #1 or RBW #2 with isolation valves. Having this operational flexibility in feeding either pond will allow for the maintenance and cleaning of one pond at a time, while the other pond is still operating. This project also involves upgrading the submersible pumps in the decant pump station (DPS) at the outlet of the RBW ponds to meet the peak flow of approximately 5.0 MGD. Additionally, the DPS control system will be upgraded to provide improved operational controls and flexibility. The DPS wet well also has aging and leaking slide gates that will be replaced.

This resolution will authorize the City Manager to execute Amendment No. 1 to the Agreement (Contract No. 173-21 22-029) with HDR Engineering, Inc. for Engineering Services for the Water Treatment Plant Backwash and Recycled Water Upgrades Project for a not-to-exceed amount of \$38,681 and appropriation of funds.

POLICY / RULE

In accordance with Chapter 2.36 of the Folsom Municipal Code, supplies, equipment, services, and construction with a value of \$70,952 or greater shall be awarded by City Council.

ANALYSIS

In October 2018, the EWR Department completed a pre-qualification process for consultants for design and construction administration services for water and wastewater projects. The consulting firm HDR Engineering, Inc. was one of the firms selected to provide these services for this type of project through this pre-qualification process. HDR Engineering, Inc. was determined to provide the best value to the City based on their knowledge and familiarity with the project, understanding of the background and requirements of the project, and qualifications and experience of the project team.

In May 2022, the City of Folsom entered into an agreement with HDR Engineering, Inc. to provide engineering services (including design and construction administration services) for the Water Treatment Plant Backwash and Recycled Water Upgrades Project for a not-to-exceed amount of \$60,060. This initial work included project management during construction, participation in the pre-construction meeting, submittal reviews, responses to Requests for Information (RFI), site visits, construction meetings, contract change order support, etc.

During the initial phase of construction, unknown existing underground utilities were discovered which require additional engineering and construction support to develop solutions

to work around these utilities. In addition to the unknown utilities, RBW # 2 did not have a concrete bottom to the basin as originally shown on previous as-built plans, which requires different pipe alignment alternatives to be considered and designed. Amendment No. 1 is for additional engineering services for design and construction administration. Services recommended to be provided by HDR Engineering, Inc. include the following:

- Construction Administration:
 - Project Management During Construction: extended construction contract duration and additional contractor coordination.
 - Review of additional RFIs and Submittals.
 - Additional Site Visits and Construction Meetings.
- Contract Clarifications:
 - Additional design services for three alternatives due to the unknown underground utilities and existing RBW conditions.
- Survey Support for third design alternative.
- Additional Engineering Work:
 - Additional time allocated to Project Management, Submittal reviews, RFI reviews, or alternative design review.

This resolution will authorize the City Manager to execute Amendment No. 1 to the Agreement (Contract No. 173-21 22-029) with HDR Engineering, Inc. for Engineering Services for the Water Treatment Plant Backwash and Recycled Water Upgrades Project for a not-to-exceed amount of \$38,681.

FINANCIAL IMPACT

The Environmental and Water Resources Department recommends that the amendment be executed with HDR Engineering, Inc. for \$38,681 for a total contract amount of \$98,741. The Water Treatment Plant Backwash and Recycled Water Upgrades Project is included in the Capital Improvement Plan with a Fiscal Year 2022-2023 project budget of \$2,380,025. The project budget will require an additional appropriation in the amount of \$44,975 in order to accommodate this amendment. This will bring the total project budget up to \$2,425,000. Sufficient funds are available in both the Water Operating Fund (Fund 520) and the Water Capital Fund (Fund 521) for the appropriation.

ENVIRONMENTAL REVIEW

This project is replacement and/or improvement of existing infrastructure with negligible or no expansion of use and therefore is categorically exempt from environmental review under the California Environmental Quality Act as noted in Title 14 – California Code of Regulations, Chapter 3 – Guidelines for Implementation of the California Environmental Quality Act, Article 19 – Categorical Exemptions, Sections 15301 (Existing Facilities), 15302 (Replacement or Reconstruction), and/or 15304 (Minor Alterations to Land).

ATTACHMENT

Resolution No. 11003 – A Resolution Authorizing the City Manager to Execute Amendment No. 1 to the Agreement (Contract No. 173-21 22-029) with HDR Engineering, Inc. for Engineering Services for the Water Treatment Plant Backwash and Recycled Water Upgrades Project and Appropriation of Funds

Submitted,

Marcus Yasutake, Director
ENVIRONMENTAL AND WATER RESOURCES DEPARTMENT

RESOLUTION NO. 11003

A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AMENDMENT NO. 1 TO THE AGREEMENT (CONTRACT NO. 173-21 22-029) WITH HDR ENGINEERING, INC. FOR ENGINEERING SERVICES FOR THE WATER TREATMENT PLANT BACKWASH AND RECYCLED WATER UPGRADES PROJECT AND APPROPRIATION OF FUNDS

WHEREAS, the City of Folsom has identified this project as a priority to maintain the integrity and operation of the water treatment system; and

WHEREAS, HDR Engineering, Inc. by reason of their knowledge and familiarity with the project, understanding of the background and requirements of the project, and qualifications and experience of the project team, are qualified to perform the required additional engineering design services and construction administration services; and

WHEREAS, the Water Treatment Plant Backwash and Recycled Water Upgrades Project was included in the FY 2022-23 Capital Improvement Plan with a project budget of \$2,380,025; and

WHEREAS, an additional appropriation in the amount of \$44,975 is needed for this amendment which will increase the project budget to \$2,425,000 and sufficient funds are available in the Water Operating Fund (Fund 520) and the Water Capital Fund (Fund 521) for the appropriation; and

WHEREAS, the agreement will be in a form acceptable to the City Attorney:

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Folsom authorizes the City Manager to execute Amendment No. 1 to the Agreement (Contract No. 173-21 22-029) with HDR Engineering, Inc. for Engineering Services for the Water Treatment Plant Backwash and Recycled Water Upgrades Project for a not-to-exceed amount of \$38,681 and a total contract amount of \$98,741.

BE IT FURTHER RESOLVED that the Finance Director is authorized to appropriate \$44,975 for this agreement. The appropriation will be from the Water Operating Fund (Fund 520) and Water Capital Fund (Fund 521), for a total project budget of \$2,425,000.

PASSED AND ADOPTED this 14th day of March, 2023, by the following roll-call vote:

AYES: Councilmember(s):
NOES: Councilmember(s):
ABSENT: Councilmember(s):
ABSTAIN: Councilmember(s):

Rosario Rodriguez, MAYOR

ATTEST:

Christa Freemantle, CITY CLERK