



Folsom City Council Staff Report

MEETING DATE:	11/12/2024
AGENDA SECTION:	Consent Calendar
SUBJECT:	Resolution No. 11281 - A Resolution Authorizing the City Manager to Execute Amendment No. 3 to the Agreement (Contract No. 173-21 22-006) with Stantec Consulting Services, Inc. for the Folsom Reservoir Raw Water Delivery Reliability 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. 11281 - A Resolution Authorizing the City Manager to Execute Amendment No. 1 to the Agreement (Contract No. 173-21 22-006) with Stantec Consulting Services, Inc. for the Folsom Reservoir Raw Water Delivery Reliability Project and Appropriation of Funds.

BACKGROUND / ISSUE

Presently, San Juan Water District (SJWD), the City of Roseville (Roseville), and the City of Folsom (Folsom), through an existing 84-inch intake pipeline and associated pumping plant, can take raw water from Folsom Lake near the main concrete dam at Folsom Reservoir. This intake also provides raw water to Folsom State Prison. The existing raw water system has been operated without major interruption or outages. Since there is not a current backup system in place for raw water supply, the three water agencies, the Bureau of Reclamation (Reclamation), and the United States Army Corps of Engineers (USACE) completed a Project Alternatives Solutions Study (PASS) in 2006 to identify potential redundant systems that could bring raw water to the agencies if unplanned outages were to occur again.

The Folsom Reservoir Raw Water Delivery Reliability Project (Project) seeks to improve the reliability of delivery of senior water rights by the U.S. Department of the Interior, Bureau of Reclamation’s (Reclamation) pursuant to settlement contracts for Central Valley Project

(CVP) water from Folsom Dam to the City of Folsom, City of Roseville (Roseville), and San Juan Water District (SJWD). These three entities (collectively, Partners) share a single municipal and industrial (M&I) water supply intake within Folsom Dam that can become inoperable because of mechanical/structural failure, disaster, or low reservoir water levels.

This resolution will authorize the City Manager to execute Amendment No. 3 to the Agreement (Contract No. 173-21 22-006) with Stantec Consulting Services, Inc. for the Folsom Reservoir Raw Water Delivery Reliability Project and Appropriation for a not-to-exceed amount of \$140,950, bringing the total contract amount to \$410,660.

POLICY / RULE

In accordance with Chapter 2.36 of the Folsom Municipal Code, supplies, equipment, services, and construction with a value of \$73,209 or greater shall be awarded by City Council.

ANALYSIS

On January 11, 2022, City Council approved Resolution No. 10784 authorizing the City Manager to enter into an agreement with Stantec Consulting, Inc. for engineering consulting services for the Folsom Reservoir Raw Water Delivery Reliability Project. Amendment No. 1 and Amendment No. 2 were no cost amendments that extended the date of the agreement. Amendment No. 3 will evaluate a potential raw water intake and pipeline specifically for the City of Folsom.

During the evaluation of the raw water vulnerabilities for the Partners, the team concluded that these vulnerabilities could impact water delivery in several ways. These include the following.

- The existing facilities cannot deliver peak season demands when the lake level drops below 391-feet in elevation (reservoir storage equivalent of 317,000 AF (or 317 TAF) and cannot deliver any water when lake levels drop below elevation 330-feet (89 TAF). Full pumping capacity is possible at a lake elevation of 340-feet (111 TAF) and above. Pumping capacity is reduced with lake elevations between 340 and 310-feet (55 TAF).
- To address the potential loss of supply during low lake level conditions, Reclamation and the City of Folsom have successfully implemented a temporary floating pump system that can provide 30 cubic feet per second (cfs) of emergency backup delivery to only Folsom and Folsom Prison. The start-up of the temporary pumps requires contractor involvement and time to implement (2 to 6 weeks).
- The delivery system from the municipal and industrial water intake, 84-inch tunnel through the dam, and pipeline to the Folsom Pumping Station have no redundancy when the lake levels are low or during an emergency, which forms a single failure point for water delivery reliability.

- When lake levels drop below 432-feet (623 TAF), and gravity flows to the Partners cease, the Folsom Pump Station is needed to maintain deliveries. The Folsom Pump Station has many non-redundant components, such as single-feed pipelines and valves, which are subject to potential failure.

The Project objectives were to develop engineering alternatives to secure a reliable water delivery system from Folsom Reservoir under a wide range of hydrologic conditions and emergencies to meet the Partners' demand requirements during: (1) planned outages for maintenance of Reclamation facilities, (2) unplanned outages, and (3) low lake levels potentially occurring under drought conditions. The Project included raw water delivery alternatives from Folsom Reservoir (six options) and from the American River (5 options). The Partners selected two alternatives, as defined in the scope of work, to evaluate in more detail and these alternatives are included in the final project report.

Although not part of the original Project list of alternatives, Stantec Consulting Services, Inc. indicated there was a City of Folsom specific alternative the City may want to consider further evaluating. Since this is a City-only alternative, the City of Roseville and San Juan Water District are excluded from the proposed costs of the evaluation. This alternative focuses on an intake and pump station near the Lake Natoma Crossing bridge that would be sufficient to deliver the City's contractual amount of 27,000 acre-feet of pre-1914 water rights at a rate not to exceed 60 cfs. This work will include the following.

- Project management
- Confirmation of intake and pump station location
- Raw water pipeline alignment from the intake to the City's water treatment plant
- Tie-in location to the existing raw water line near East Natoma Street and Randall Drive
- Development of conceptual design and construction estimates
- Development of an implementation schedule and life-cycle costs analysis
- Provide an analysis of governance, regulatory, and environmental considerations, including permitting requirements
- Development of a draft and final report

This resolution will authorize the City Manager to Execute Amendment No. 3 to the Agreement (Contract No. 173-21 22-006) with Stantec Consulting Services, Inc. for the Folsom Reservoir Raw Water Delivery Reliability Project and Appropriation of Funds.

FISCAL IMPACT

The City Council approved Resolution No. 10784 at the January 11, 2022, City Council meeting authorizing the City Manager to execute an agreement with Stantec Consulting Services, Inc. for engineering consulting services for the Folsom Reservoir Raw Water Delivery Reliability Project for a total amount not to exceed \$269,710 with \$134,855 appropriated in the Water Operating Fund (Fund 520) and \$134,855 appropriated in the Water Impact Fee Fund (Fund 456). Staff recommends that Amendment No. 3 to the agreement for evaluation and project review services be executed with Stantec Consulting Services, Inc. for

an additional \$140,950 for a not to exceed total of \$410,660. The Folsom Reservoir Raw Water Delivery Reliability Project is not included in the FY 2024-25 Capital Improvement Plan budget and will require an appropriation in the amount of \$140,950 for the amendment. The appropriation will be in the Water Impact Fee Fund (Fund 456) for \$140,950, and sufficient funds are available for this appropriation.

ENVIRONMENTAL REVIEW

This project is a study 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, Section 15301 – Existing Facilities.

ATTACHMENT

Resolution No. 11281 - A Resolution Authorizing the City Manager to Execute Amendment No. 3 to the Agreement (Contract No. 173-21 22-006) with Stantec Consulting Services, Inc. for the Folsom Reservoir Raw Water Delivery Reliability Project and Appropriation of Funds

Submitted,

Marcus Yasutake, Director
ENVIRONMENTAL AND WATER RESOURCES DEPARTMENT

RESOLUTION NO. 11281

A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AMENDMENT NO. 3 TO THE AGREEMENT (CONTRACT NO. 173-21 22-006) WITH STANTEC CONSULTING SERVICES, INC. FOR THE FOLSOM RESERVOIR RAW WATER DELIVERY RELIABILITY PROJECT AND APPROPRIATION OF FUNDS

WHEREAS, the Cities of Folsom and Roseville and San Juan Water District identified that the planning and feasibility study for this project is critical to ensuring raw water delivery to our agencies for treatment and delivery to all water customers; and

WHEREAS, a Technical Committee made up of the Cities of Folsom and Roseville, San Juan Water District, and the Bureau of Reclamation reviewed the proposed alternatives and prepared a final report to include construction cost estimates, regulatory constraints and environmental considerations; and

WHEREAS, on January 11, 2022, City Council approved Resolution No. 10784 authorizing the City Manager to enter into an agreement with Stantec Consulting, Inc. for engineering consulting services for the Folsom Reservoir Raw Water Delivery Reliability Project; and

WHEREAS, Amendment No. 1 and Amendment No. 2 were no cost amendments that extended the date of the agreement; and

WHEREAS, Amendment No. 3 will evaluate a City of Folsom specific alternative for an intake and pump station near the Lake Natoma Crossing bridge to deliver raw water to the City's water treatment plant; and

WHEREAS, the additional scope of work will include intake and pump station location confirmation, proposed raw water line alignments, conceptual design and construction estimates, life-cycle cost analysis, governance, regulatory and environmental considers, and a draft and final report; and

WHEREAS, sufficient funds are available in the Water Impact Fee Fund (Fund 456), however an appropriation in the amount of \$140,950 is needed for the analysis and review; 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. 3 to the agreement (Contract No. 173-21 22-006) with Stantec Consulting Services, Inc. for the Folsom Reservoir Raw Water Reliability Project and Appropriation of Funds for \$140,950 for a not to exceed contract total of \$410,660; and

BE IT FURTHER RESOLVED that the Finance Director is directed to appropriate \$140,950 for this agreement in the Water Impact Fee Fund (Fund 456), which has sufficient

funds available for the appropriation.

PASSED AND ADOPTED this 12th day of November 2024, by the following roll-call vote:

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

Michael D. Kozlowski, MAYOR

ATTEST:

Christa Freemantle, CITY CLERK