

TO: Mayor Robert E. Simison
Members of the City Council

FROM: David Briggs, P.E., P.M.P.

DATE: January 11, 2023

**SUBJECT: TASK ORDER #11281.D FOR THE WRRF TERTIARY FILTRATION
UPGRADE – VE REVISED PRELIMINARY DESIGN WITH STANTEC
FOR A NOT TO EXCEED AMOUNT OF \$268,809.00 PURSUANT TO
THE MASTER AGREEMENT APPROVED BY CITY COUNCIL
OCTOBER 01, 2020**

REQUESTED COUNCIL DATE:

I. RECOMMENDED ACTION

A. Move to:

1. Approve Task Order #11281.D with Stantec for the WRRF Tertiary Filtration Upgrade – VE Revised Preliminary Design, for a not-to exceed cost of \$268,809.00.
2. Authorize the Mayor to sign the agreement

II. DEPARTMENT CONTACT PERSONS

David Briggs, PE, PMP - PM	208-489-0347
Clint Dolsby PE, Assistant City Engineer	208-489-0341
Warren Stewart, City Engineer	208-489-0350
Laurelei McVey, Director of Public Works	208-985-1259

III. DESCRIPTION

A. Background

The WRRF Tertiary Filtration Facilities Project is designed to reduce the effluent phosphorus loadings to Five Mile Creek through installation of a tertiary

membrane system. The WRRF is currently in year six of a ten-year NPDES compliance schedule to reduce these loadings. As part of a previous Task Order (TO1), Stantec progressed the tertiary filtration concept presented in the City’s 2018 Wastewater Resource Recovery Facility Plan (WRRF) and submitted a Preliminary Engineering Report (PER) to the Idaho Department of Environmental Quality (DEQ). After Task Order TO1 was complete, the City indicated that the estimated capital cost of the project exceeded the budget amount that the City had dedicated for the tertiary facilities. Stantec volunteered to identify value engineering (VE) ideas that may reduce or defer capital costs, thus allowing the City to stay within, or as close to, the City’s budget as practical.

B. Proposed Project

This project will validate the VE recommendations and confirm the findings and decisions with the City. Stantec will provide engineering services to make modifications to the preliminary design and likely reduce or defer capital cost by several million dollars. Stantec will then incorporate the changes and update and re-baseline the overall cost opinion.

C. Consultant Selection

Stantec was selected for this project due to their expertise in the design and analysis of wastewater treatment plants and their work on similar projects consisting of the same tertiary filtration technology that we are looking to utilize.

IV. **IMPACT**

A. Strategic Impact:

This project meets our mission requirements to identify and prioritize work to anticipate, plan and provide public services and facilities that support the needs of our growing community, ensure modern, reliable facilities, while maintaining financial stewardship and maintaining the ability to meet the changing permit limit requirements.

B. Service/Delivery Impact:

Implementing tertiary filtration at the WRRF will support departmental objectives to develop and employ strategies that comply with current and pending National Pollutant Discharge Elimination System Permit (NPDES).

C. Fiscal Impact:

Project Costs:

<u>Fiscal Year 2022</u>		
Tertiary Filtration Preliminary Design (TO1)		\$797,946.00

Survey Work		\$15,000.00
WRRF Membrane Pre-Procurement (TO2)		\$218,105.00
	Total	<u>\$1,031,051.00</u>
<u>Fiscal Year 2023</u>		
WRRF Tertiary Filtration Upgrade – VE Revised Preliminary Design	Total	<u>\$268,809.00</u>
	Total Project Cost	<u>\$1,299,860.00</u>

Project Funding

FY 2022 Tertiary Filter Expansion	(3590/96154)	\$1,500,000
<i>FY 2023 Tertiary Filter Expansion</i>	(3590/96154)	\$3,000,000
<i>FY 2024 Tertiary Filter Expansion (proposed)</i>	(3590/96154)	\$13,000,000
<i>FY 2025 Tertiary Filter Expansion (proposed)</i>	(3590/96154)	\$14,000,000
<i>FY 2033 Tertiary Filter Expansion (proposed)</i>	(3590/96154)	\$1,500,000
	Total Funding	\$33,000,000.00

V. **ALTERNATIVES**

No alternatives to this project at this time.

VI. **TIME CONSTRAINTS**

Council's approval will allow this project to continue towards completing design and construction of the tertiary filtration facilities and meet the NPDES compliance date of June 30, 2027.

VII. LIST OF ATTACHMENTS

Approved for Council Agenda: _____