



## Staff Report

November 20, 2023 Council Workshop Meeting

PSA for Task Order #4 at the WWTP

Presenter: Rob Charles, Utilities Manager

Time Estimate: 15 minutes

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**BACKGROUND:** As equipment at the Waste Water Treatment Plant (WWTP) continues to age, replacement of equipment it is necessary to upgrade and replace this equipment to keep the plant running efficiently and meeting permit requirements with the Department of Ecology. The equipment building houses multiple treatment components for the plant including aeration blowers, centrifuges, grit classifiers, odor control and a backup generator for the site. A septage receiving station and the ultraviolet (UV) components in a separate building will also need upgrades. All these components need to be upgraded due to older technology, lack of support from suppliers and vendors, and difficulty in obtaining parts. The upgrades will allow the plant to operate more efficiently with less staff time devoted to repairs of equipment.

**SUMMARY:** HDR was selected through a Request for Qualifications (RFQ) process and the city is now working on the 4<sup>th</sup> Task Order related to design work at the WWTP. The scope includes work to design a new UV system in the UV building, blower design for 2 of the 4 blowers, generator replacement and relocation, addition of a second centrifuge including structural modifications in that room,, new grit classifier equipment, septage receiving upgrades, and electrical upgrades for all these components. HVAC upgrades in the equipment building will allow a second centrifuge to be placed in the space, allow additional air exchanges in the grit room, plus help cool electrical equipment in electrical room.



Fig.1 Centrifuge Room in Equipment bldg.



Fig.2 Blower Room



**Fig.3 Grit Removal Room**



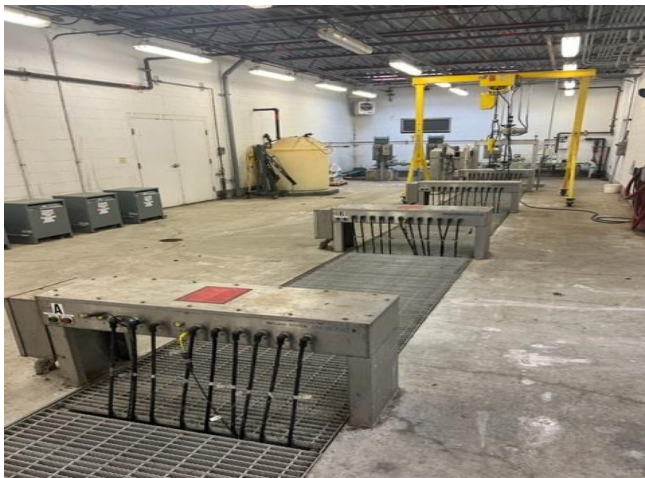
**Fig. 4 Generator**



**Fig 5 Septage Receiving Station**



**Fig. 6 Electrical Room HVAC upgrades**



**Fig. 7 Ultraviolet (UV) Bank**



**Fig. 8 Septage Receiving Station**

**BENEFITS TO THE COMMUNITY:** The main purpose of the upgrades is to ensure that the plant continues to meet the city's National Pollutant Discharge Elimination System (NPDES) permit with the Department of Ecology for both our solids and liquids handling processes.

**BUDGET IMPACT:** The scope of work for design services on the project is \$1,432,445. This will be paid out of Sewer Professional Services.

**RECOMMENDATION:** Staff recommends that this item be placed on the December 4<sup>th</sup>, 2023 Council Regular Meeting Consent Agenda for Council's consideration.