



Staff Report

November 18, 2024, Council Workshop Meeting

Task Order No. 6 Clarifier Arm Replacements and Ultraviolet Equipment Pre-Purchase Professional Services Agreement

Presenter: Rob Charles, Utilities Manager

Time Estimate: 5 minutes

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BACKGROUND: Council approved a contract with Prospect Construction for \$1.2 million dollars in May to begin work at the Wastewater Treatment Plant (WWTP) to coat the two clarifier arms in the secondary clarifiers as well as coat the headworks concrete due to hydrogen sulfide damage. During power washing of the first clarifier arm, the metal in the structure was so thin that holes and significant pitting was observed. The process was stopped and the metal was analyzed by a structural engineer. It was determined there was not enough metal left to power wash and sandblast the arms in preparation for the coating process. The arms both had new metal plates spot welded onto the weak spots to provide some strength so they could be put back into operation. The City was issued a credit of \$152,000 for the coating and prep work including the spot metal welding.

As part of Task Order #4 design work, the City had already planned to replace aging ultraviolet equipment used for disinfection, the last step of the treatment process. The work is planned for the summer of 2025, but due to the lead time of the equipment, the City will need to pre-purchase equipment ahead of time for the contractor to have it in time for a summer installation.

SUMMARY: HDR, Inc., is proposing to design replacement the existing clarifier arms with new assemblies as part of the design work that will be bid in March of 2025.

They are also proposing to write a bid package for new UV equipment so the city can pre-purchase the equipment for a contractor in time for summer construction. Typical lead time for the equipment is 7 months.

Both the bid award for the design work associated with the clarifier arms and equipment building as well as the purchase of UV equipment will be brought to Council as separate action items in the future.



Figure 1: Clarifier Arm



Figure 2-4: Clarifier Arm Damage



Figure 5: Ultraviolet Equipment

BUDGET IMPACT: The cost of Task Order No. 6 is \$147,454 and there is sufficient budget in the Sewer Fund to cover this expense. The total cost of previously approved Task Orders #1-5 is \$2,066,893, which included the blower prepurchase, design and construction management of the headworks and primary clarifier recoating project, and equipment building and UV equipment replacement design.

RECOMMENDATION: Staff would recommend that this item be placed on the December 2, 2024 City Council Regular Consent Agenda for Council's consideration.