

COUNCIL ACTION FORM

SUBJECT: WATER POLLUTION CONTROL FACILITY SLUDGE PUMPING BUILDING IMPROVEMENTS

BACKGROUND:

A comprehensive evaluation of the mechanical condition of the Water Pollution Control Facility was performed in 2012. The outcome of that evaluation was a prioritized schedule for the repair or replacement of key mechanical equipment associated with solids handling. The Water Pollution Control Facility (WPCF) Sludge Pumping Building Improvements project is the final component of the Digester Improvements CIP project. The original scope identified in the FY 2014/15 CIP included replacement of three waste pumps. Upon further investigation, there are additional improvements that staff is recommending as described below. The savings from the earlier elements of the Digester Improvements CIP project will be used to cover the increased scope of work.

This project will consist of replacing three pumps, seventeen valves, and floor grating located over the final and secondary clarifier scum pits. In addition to the equipment replacement, the building basement, stairwell, and piping will have all existing coatings removed and re-coated.



Representative example of the pumps, piping, valves, and paint coatings that will be replaced by this project.

The pumps are nearing the end of their useful life and staff has experienced several mechanical failures over the past year. The valves identified in this project have reached the end of their useful life and no longer operate as intended. The coatings associated with the Sludge Pumping Building are original to the plant construction and are showing signs of failure. Coatings help to protect equipment such as piping from corrosion. To ensure protection for years to come, it is recommended to remove all coatings and re-coat at this time.

The engineer's estimate of probable construction costs is \$280,000. The work was designed in-house, so there are no engineering fees. A summary of the project budget and estimated expenses is shown on the following page.

Project Budget

FY 2020/21 CIP	\$ 183,000
Digester Improvements CIP Savings	158,000
<u>Total Project Budget</u>	<u>\$ 341,000</u>

Estimated Project Expenses

Construction Estimate	280,000
Contingency (10% of construction)	28,000
<u>Total Estimated Expense</u>	<u>\$ 308,000</u>

ALTERNATIVES:

1. Approve the preliminary plans and specifications and issue a Notice to Bidders for the Water Pollution Control Facility Sludge Pumping Building Improvements project, establishing April 14, 2021 as the bid due date and April 27, 2021 as the date of public hearing.
2. Do not approve plans and specifications and a notice to bidders at this time.

CITY MANAGER'S RECOMMENDED ACTION:

The equipment and coatings in the Sludge Pumping Building have reached the end of their useful life. To ensure that the WPCF remains operational and continues to stay in compliance, these upgrades are necessary. Authorized funds are available to cover the estimated cost of the work plus a construction contingency.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No.1 as described above.