

"Placerville, a Unique Historical Past Forging into a Golden Future"



City Manager's Report
September 24, 2019 City Council Meeting
Prepared by: Mark Liebenow, Water Reclamation Facility Supervisor
Item #: 12.6

Subject: Adopt a Resolution:

1. Approving a construction contract with GSE CONSTRUCTION, INC. in the amount of \$59,718.00 for the replacement of Secondary Clarifier #1 Grout Floor Project (CIP#42014); and
2. Authorize the City Engineer to execute the same; and
3. Approving a \$69,000 budget appropriation from the Sewer Enterprise Fund Contingency for Unforeseen Expenditures for the said project.

Purpose: Secondary Clarifier #1 at the Hangtown Creek Water Reclamation Facility (WRF) was constructed as part of the 1997 facility upgrade. This unit is designed as a settling basin for the Return Activated Sludge, (RAS) process of the Facility. The grout flooring on the bottom of the Clarifier dates back its initial construction over twenty years ago and has failed. It is in need of immediate replacement before the onset of seasonal rains to preserve the plant's operation process and maintain compliance with the National Pollutant Discharge Elimination System (NPDES) permit.

Discussion: The Hangtown Creek Water Reclamation Facility dates back to 1962. The Secondary Clarifier #1 was examined during the 2007 facility upgrade and found to have surface cracks in the grout floor. These cracks were repaired by Western Water Constructors, Inc.. This unit ran until it failed in March of 2019 and has been offline ever since.

In March of 2019, the Clarifier sweep arm mechanism stopped due to over torque. Staff drained and inspected the Clarifier, and at first thought the main drive gear was the problem. The manufacture was contacted by staff, and troubleshooting suggestions were given. The drive gear was removed drained and cleaned, and the main Pinion Bearing was replaced. The Clarifier was then filled with non-potable water and tested. The test failed, and the clarifier was drained and re-examined. Staff found that the lower sweep arms were coming into contact with the grout floor at certain locations, impeding movement of the sweep arms. The grout floor was examined, and it was found that the grout had separated from the main concrete floor in several locations. The separation of the grout and the concrete has caused the failure of the sweep arms. Regional Water Quality Control Board has been alerted on the condition of the Clarifier as required under the NPDES permit.

Staff obtained two bids from for the Clarifier grout replacement project. The first quote was from ERS Industrial Services, Inc. for cost of \$106,260.00. The second was from GSE Construction for a cost of \$59,718.00. GSE Construction has previously worked on two projects at the WRF. Both projects were completed on time and on budget without any major cost increases. Their team works well with WRF staff members, and it is recommended the project be awarded to GSE Construction.

Options:

1. Approve the contract with GSE Construction in the amount of \$59,718.00 as recommended by staff.
2. Direct staff to provide a revised solution or negotiate different terms for the contract.

Cost: The cost of the proposed contract with GSE Construction is \$59,718.00.

Budget Impact:

This project is not currently budgeted. Staff recommends a \$69,000 budget appropriation from the Sewer Enterprise Fund Contingency for Unforeseen Expenditures as shown below:

Construction	\$ 59,718
Contingency	6,282
City Personnel Time	<u>3,000</u>
Total	<u>\$ 69,000</u>

As you can see, the \$59,718 contract with GSE Construction is well within the \$69,000 proposed project budget.

Recommendation: Adopt a Resolution:

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2. Authorize the City Engineer to execute the same; and
3. Approving a \$69,000 budget appropriation from the Sewer Enterprise Fund Contingency for Unforeseen Expenditures for the said project.



M. Cleve Morris, City Manager



Rebecca Neves, City Engineer

Attachments:

- A. Resolution
- B. GSE Construction Clarifier Grout Replacement Proposal