



**DATE:** April 30, 2019

**CATEGORY:** Consent

**DEPT.:** Public Works

**TITLE:** **Immediate Repairs to Sewage Pump Station, Project 17-48 – Approve Plans and Specifications/Authorize Bidding; Amend the Project Budget**

### **RECOMMENDATION**

1. Authorize the use of \$3.1 million Wastewater Loan proceeds for Project 17-48, Immediate Repairs to Sewage Pump Station, in place of the Long-Term Sewage Pump Station Repairs project, portion of the Interceptor Force Trunk Main Rehabilitation, and San Antonio Sewer Improvements projects, identified as projects to be funded from the Wastewater Loan.
2. Authorize the transfer and appropriation of \$3.1 million from the Wastewater Fund to Immediate Repairs to Sewage Pump Station, Project 17-48. (Five votes required)
3. Approve plans and specifications for Immediate Repairs to Sewage Pump Station, Project 17-48, and authorize staff to advertise the project for bids.
4. Authorize the City Manager to award a construction contract to the lowest responsible bidder if the bid is within the project budget.

### **BACKGROUND**

The City of Mountain View's Sewage Pump Station (SPS) is located in Shoreline at Mountain View, near the Shoreline Golf Links Clubhouse, and was originally constructed in 1961 as part of the City's wastewater treatment plant. After the Palo Alto Regional Water Quality Control Plant (PARWQCP) was constructed, the City's wastewater treatment plant was decommissioned and converted to pump wastewater to the PARWQCP. Almost all of the City's wastewater (90 percent) collects at the SPS and is pumped to the PARWQCP.

Although the pump station is in serviceable condition, many components of the station are reaching the end of their useful lives. The City completed a 2017 Shoreline Sewer

Pump Station Assessment Report that includes a thorough assessment of the SPS and provided an improvement strategy to implement the recommended repairs in two phases.

The first phase includes near-term repairs to improve the SPS to comply with current codes and standards and enhance pump station safety. The second phase includes less-critical operational upgrades and some energy-saving measures.

In February 2017, the City executed a design services contract with Schaaf & Wheeler Consulting Engineers (S&W) to perform design work for the first phase.

As design was proceeding on the near-term improvements, corrosion was discovered in the external steel discharge pipes at the aboveground manifold, prompting the need for emergency repairs. Suspecting that corrosion also exists within additional buried and relatively inaccessible piping, staff recommended increasing the scope of the current project to include some of the long-term repairs recommended in the 2017 study. As the cost to shut down and bypass the pump station is very expensive, staff also proposed to do additional work such as replacement of a 42" slide gate to take advantage of the shutdown. On November 13, 2018, Council approved an amendment to the S&W contract to include this additional work. The scope of the current project includes:

- Replacement of interior ventilation system and access hatches;
- Replacement of electrical conduits, conductors, and panel control;
- Replacement of electrical components such as conduit, conductors, check valve switches, and ultrasonic level sensor;
- Replacement of all four steel discharge pipes within and external to the pump station;
- Replacement of buried discharge piping;
- Replacement of inlet slide gate and controls; and
- Installation of temporary sewer bypass pumping during construction.

**ANALYSIS**

Plans and specifications are complete and ready for bidding. With the design completed and construction costs identified, the recommended actions include amendment of the project budget to include funding for construction of the additional scope of work.

The estimated project cost is as follows:

Construction	\$2,754,000
Construction Contingency (20%)	550,000
Project Design	265,000
Project Management	25,000
City Construction Management and Special Inspection	250,000
Printing and Other Miscellaneous	<u>5,000</u>
 Subtotal	 \$3,849,000
 City Administration @ 6.5%	 <u>251,000</u>
 TOTAL PROJECT COST	 <u>\$4,100,000</u>

The Immediate Repairs to Sewage Pump Station, Project 17-48, is funded with \$1,000,000 from the Wastewater Capacity fees. On October 23, 2018, City Council approved a \$10.1 million Wastewater Loan to finance the following projects:

- Middlefield Road Sewer Replacement;
- Interceptor Force Trunk Main Rehabilitation;
- San Antonio Sewer Improvements;
- Long-Term Sewage Pump Station Repairs;
- Water/Sewer Main Replacement Crossing Highway 101; and
- Central Sewage Trunk Main Rehabilitation.

The Wastewater Loan agreement provides the City the authority to amend the project list from time to time as long as the loan is used only for the purpose of the City's wastewater system.

Since the design of the other identified projects listed above has not been completed and there is an immediate need to make repairs to the pump station, staff recommends amending the appropriation of the Wastewater Loan. Other identified projects in the loan documents will now be funded by the Wastewater Fund and/or Wastewater Capacity fees.

If the recommended actions are approved and a responsive bid within the project budget is received, construction is anticipated to begin in June 2019 and be completed in early 2020.

In accordance with the California Environmental Quality Act (CEQA), this project has been determined to be categorically exempt as repair and maintenance of existing facilities.

### **FISCAL IMPACT**

The Immediate Repairs to Sewage Pump Station, Project 17-48, is funded with \$1,000,000 from the Wastewater Capacity fees. The recommended actions would transfer an additional \$3,100,000 from the Wastewater Loan, providing a total funding of \$4,100,000.

### **ALTERNATIVES**

1. Defer construction.
2. Provide other direction.

**PUBLIC NOTICING** – Agenda posting.

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