



Agenda Date: 3/21/2018

Agenda Placement: 7F

## Napa Sanitation District Board Agenda Letter

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**TO:** Honorable Board of Directors

**FROM:** Timothy Healy - General Manager  
NS-Technical Services/Engineer

**REPORT BY:** Robin D. Gamble, Asset Manager - (707) 258-6031

**SUBJECT:** Approve Task Order for the West Napa Pump Station Project (CIP 17711) Design Services

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### **RECOMMENDATION**

Authorize the Purchasing Agent to execute Task Order 4 with Hazen and Sawyer to provide engineering services to design the West Napa Pump Station Project (CIP 17711) in the amount of \$888,723.

### **EXECUTIVE SUMMARY**

A pre-design report was prepared in 2003 for the West Napa Pump Station (WNPS) that identified deficiencies in the pump station that required improvements including replacement of handrails and stairs, seismic upgrades to the building, and replacement of outdated electrical to name a few. The primary deficiency was that there was inadequate firm capacity. Firm capacity of a pump station is the total pumping capacity remaining when the largest pump is out of service.

Hazen and Sawyer was selected through a competitive process to perform a preliminary evaluation of the design options. Using asset management principals Hazen and Sawyer evaluated the 30-year life cycle cost for the options. The options studied included rehabilitation of the existing pump station, construction of a new pump station using the existing building for electrical equipment, and construction of a new pump station with a new electrical building. The life cycle cost for each option was approximately \$8M. Staff determined the preferred option was to replace the pump station and build a new electrical building (with vegetative screening) and install solar panels in the location of the existing building.

The replacement of the pump station is eligible for the State Revolving Fund (SRF) green project reserve (GRP) funding due to reducing energy consumption use by 20%. The 20% reduction in energy consumption will be achieved by using more efficient pumps and electrical equipment and installation of solar. One of the benefits of a GPR project is that the green components of the project are eligible for 50% loan forgiveness. The GPR components include construction of green components (including pumps), design/engineering, administration

and other costs like encroachment permits. The remainder of the project will be funded by an SRF loan.

Task Order 4 in the amount of \$888,723 with Hazen and Sawyer is for design of a new pump station. Deliverables include: analysis of odor control and ventilation system, analysis of the electrical building, evaluation of solar, design plans and specifications, and technical support during the bidding phase.

### **FISCAL IMPACT**

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	The total budget for this project in the 10-year capital improvement plan is \$1,300,000. Sufficient funds are available to cover this Task Order. The anticipated total project cost which will be represented in the proposed FY18/19 10-year CIP is approximately \$8,600,000.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	The existing pump station has reached the end of its useful life and rehabilitation or replacement is necessary.
Is the general fund affected?	Yes
Future fiscal impact:	Design work will extend in to future fiscal years. Unspent budget from FY 17/18 will be carried forward into FY 18/19.
Consequences if not approved:	NapaSan staff does not have adequate recourses to design the pump station improvements therefore the project would be delayed.

Additional Information:

### **ENVIRONMENTAL IMPACT**

None.

### **BACKGROUND AND DISCUSSION**

NapaSan's WNPS is located at the northeast corner of the intersection of West Imola Avenue and South Coombs Street. The pump station conveys flow from areas of West Napa and pumps the wastewater under the Napa River. The original facility was constructed in 1948 and was expanded in 1979 with minor modifications since the expansion was completed. Dry weather flow through the pump station is approximately 1.8 mgd, however approximately 15 mgd are experienced during wet-weather events. The project will increase the firm capacity of the pump station so that the pump station is more reliable in wet weather and replace 70-year old assets that have reached the end of their useful life.

NapaSan staff managed a competitive consultant selection and procurement process to select a design firm. NapaSan received seven (7) statement of qualifications and six (6) proposal for design of the pump station. Staff interviewed three (3) firms and selected Hazen and Sawyer as the most qualified firm to perform the required services.

**SUPPORTING DOCUMENTS**

A . Task Order No. 4

Napa Sanitation District: Approve

Reviewed By: Timothy Healy