



Agenda Date: 10/2/2019

Agenda Placement: 8B

## 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:** Karl Ono, Associate Engineer - (707) 258-6013

**SUBJECT:** Award Construction Contract for the 2019 Manhole Rehabilitation Project (CIP 20702)

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### **RECOMMENDATION**

Award construction contract for the 2019 Manhole Rehabilitation Project (CIP 20702) to H&R Plumbing and Drain Cleaning, Inc. for the bid amount of \$182,120 and authorize the General Manager to execute the Agreement with the Contractor and issue the Notice to Proceed, when appropriate.

### **EXECUTIVE SUMMARY**

On September 12, 2019 NapaSan received two bids the 2019 Manhole Rehabilitation Project (CIP 20702). The engineer's estimate of probable construction cost for the project was \$185,000. H&R Plumbing and Drain Cleaning, Inc. is the lowest qualified bidder in the amount of \$182,120, which is 1.6% less than the engineer's estimate.

The second bid was submitted by Nor-Cal Pipeline Services in the amount of \$196,710, which is approximately 8% higher than the low bid.

Staff believes the bid amount is competitive as the pricing is comparable to previous, similar project bid pricing and lower than the engineer's estimate. Staff recommends award of the total project.

Notice to Proceed is expected to be issued in October 2019 and construction is expected to start in November 2019. The Contractor has 180 calendar days to substantially complete the project from Notice to Proceed.

### **FISCAL & STRATEGIC PLAN IMPACT**

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	The project is budgeted in the FY 2019/20 capital budget.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	The project is necessary to increase the longevity of the manholes and reduce groundwater infiltration.
Is the general fund affected?	Yes
Future fiscal impact:	None.
Consequences if not approved:	Infiltration will continue to enter the collection system from cracks and joints in the manholes and the internal condition of the manholes will continue to deteriorate. The I&I in the project areas will stay at current levels in the collection system and increase over time as the manholes continue to deteriorate.
County Strategic Plan pillar addressed:	N/A
Additional Information:	None.

### **ENVIRONMENTAL IMPACT**

On August 7, 2019 the Board concurred with Staff's determination that the project is Categorical Exempt under California Environmental Quality Act (CEQA) Guidelines Article 19, Section 15302 (c). The Notice of Exemption was filed with Napa County Recorder on August 8, 2019.

### **BACKGROUND AND DISCUSSION**

The purpose of this project is to rehabilitate approximately 84 manholes to reduce groundwater infiltration upstream of known sanitary sewer overflow locations. Experience with past projects has shown that manhole rehabilitation can be a cost-effective means of reducing wet weather flows by decreasing groundwater infiltration with minimal impacts to residents and businesses. This project will rehabilitate manholes identified by NapaSan staff as active sources of groundwater infiltration during the winter of 2018/19.

Rehabilitation work at each manhole will generally be completed in two phases. First, during the rainy season when groundwater levels are high, active leaks will be stopped by injecting chemical grout. Manholes with infiltration observed in cone, barrel, and/or bench sections will then be rehabilitated with restoration mortar and coating after leaks have been stopped and hydrostatic pressure has been reduced.

Three large-scale manhole rehabilitation projects have been completed to date. Results from pre- and post-construction flow monitoring have shown that the cost-effectiveness of manhole rehabilitation alone can be significantly greater than full-system rehabilitation for reducing groundwater infiltration in the collection system. Infiltration in manholes can be observed and recorded relatively easily during regular maintenance activities. Furthermore, the work can be completed independently of other projects and with less impacts to residents and business owners.

NapaSan staff have developed an in-house data collection and monitoring system for manhole condition

assessments. Condition assessments are performed by NapaSan Collections Department staff on an ongoing basis and entered into a database that can be queried to identify manholes with active groundwater infiltration. Manholes are then selected for rehabilitation based on their locations and severity of the observed infiltration. The manholes selected for rehabilitation under this project have been identified as active sources of groundwater infiltration and are upstream of historical overflow locations.

**SUPPORTING DOCUMENTS**

- A . CIP 20702 Bid Results
- B . Project Area Map
- C . Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy