



Agenda Date: 11/1/2017

Agenda Placement: 8C

Napa Sanitation District Board Agenda Letter

TO: Honorable Board of Directors

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

REPORT BY: Andrew Damron, Technical Services Director - 707-258-6000

SUBJECT: Award Task Order for 2018 Treatment Plant Improvement Project (CIP 18736) Design Services

RECOMMENDATION

Authorize the Purchasing Agent to execute Task Order No. 25 with Carollo to provide engineering design services for the 2018 Treatment Plant Improvement Project (CIP 18736) in the amount of \$237,200.

EXECUTIVE SUMMARY

The FY17/18 capital project list includes eight (8) projects that should be constructed during the summer of 2018.

1. 12kV project
2. 3W improvements and 3W VFD
3. Operations building HVAC
4. Primary influent pipe rehabilitation
5. Secondary pump station VFD
6. CCB #3 effluent gate
7. Pond 4 pump station leak repair
8. Filter 1-4 air valves

During initial planning and review of these projects, NapaSan staff determined that the projects should be constructed concurrently during the dry-weather flow season in 2018. Benefits of designing and constructing as a single project include: single point of contact for NapaSan staff, lower bid prices due to economy of scale, avoided conflicts during construction if multiple contractors are on site at the same time, and scheduled/coordinated system shutdowns resulting in minimized impacts to operations.

Carollo was selected as the most qualified firm to design the project due to their previously completed projects in the treatment plant. Under this Task Order, Carollo will prepare construction bid documents. The design will

begin in November.

NapaSan staff will request that the Board approve the project in February 2018 for bidding. Construction is scheduled for summer 2018.

FISCAL IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	The eight (8) projects are budgeted in the 10-year capital improvement plan and have been combined into a single capital project. Sufficient funds are available to cover this Task Order.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	The existing assets need to be repaired or replaced and Carollo has previous design experience with these assets.
Is the general fund affected?	No
Future fiscal impact:	None.
Consequences if not approved:	Staff would design the improvements which would limit NapaSan's ability to complete other scheduled projects.

Additional Information:

ENVIRONMENTAL IMPACT

None.

BACKGROUND AND DISCUSSION

Eight (8) projects in the approved CIP are included in this single design effort. The following is additional information about each project:

1. 12kV project - *Install ground fault protection for the 12kV utility power system.*
2. 3W improvements and 3W VFD - *Replace valves and address corrosion in the 3W system piping and install a new variable frequency drive (VFD) for the second 3W pump. This project is already under contract (Task Order 22) with Carollo for design.*
3. Operations building HVAC - *Fix various deficiencies in the HVAC and electrical systems in the operations building and resolve a ventilation safety issue in the laboratory.*
4. Primary influent pipe rehabilitation - *Replace or rehabilitate a section of 36-inch welded steel pipe between headworks and the primary clarifiers that is corroded and leaking.*

5. Secondary pump station VFD - *Replace variable frequency drives (VFD) in this pump station that are at the end of their useful lives.*
6. CCB #3 effluent gate - *Repair or replace the existing gate in the chlorine contact basin (CCB) that is not currently working.*
7. Pond 4 pump station leak repair - *Repair a discharge pipe leak below the pump station.*
8. Filter 1-4 air valves - *Provide isolation valves to air lifts at filter cells 1-4 to provide individual air control to each filter cell.*

SUPPORTING DOCUMENTS

- A . Task Order 25
- B . Presentation Slides

Napa Sanitation District: Approve

Reviewed By: Timothy Healy