



Agenda Date: 11/16/2016
Agenda Placement: 7E

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 the Inflow and Infiltration (I&I) Reduction Program (CIP 13705) Flow Monitoring

RECOMMENDATION

Authorize the Purchasing Agent to execute Task Order No. 53 with GHD to provide Professional Services for the Inflow and Infiltration (I&I) Reduction Program (CIP 13705) for collection system flow monitoring in the amount of \$196,363.

EXECUTIVE SUMMARY

This scope includes post-construction and preconstruction flow monitoring and preparation of a flow monitoring report as well as nighttime field reconnaissance and CCTV inspection. GHD will subcontract with V&A Engineers for flow monitoring and will evaluate the flow monitoring results and provide technical expertise on the flow monitoring report. Additionally, GHD will subcontract with Professional Pipe Services for CCTV inspection work.

The flow monitoring will collect post-construction data for projects constructed in 2016 and preconstruction data for upcoming projects.

The task order is structured to include optional items for flow monitoring up to 2 months. This allows for flexibility in the duration of flow monitoring depending on obtaining desirable conditions for flow monitoring. If the timing of rain events are such that adequate flow monitoring results are obtained in a shorter interval (1 month or 1.5 months) a portion of the task order will be unused. The District and GHD will monitor the weather to determine when it is optimal to install the flow meters.

FISCAL IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	The project budget in the approved 10-year CIP is \$200,000.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	Preconstruction and post-construction flow monitoring is used to analyze the effectiveness of rehabilitation and pilot projects (I&I reduction projects). The work is consistent with recommendations in the Collection System Master Plan and will assist the District in planning future I&I reduction projects.
Is the general fund affected?	Yes
Future fiscal impact:	None. The work will be completed this fiscal year.
Consequences if not approved:	The effectiveness of recent I&I reduction projects will not be known and upcoming projects could be delayed due to a lack of preconstruction flow monitoring data.
Additional Information:	

ENVIRONMENTAL IMPACT

None.

BACKGROUND AND DISCUSSION

The Board adopted the Collection System Master Plan (CSMP) in December of 2007. The CSMP included a pilot Capital Improvement Program (CIP) within the collection system that will measure the effectiveness of I&I reduction projects. The I&I Reduction Program is included in each year of the CIP as a project intended to monitor, analyze and report data collected from individual I&I reduction projects. Preconstruction flow monitoring is used to establish a baseline flow for a basin/subbasin which is compared to post-construction flow monitoring to determine the effectiveness (I&I reduced) of the project. Post-construction flow monitoring is used to determine the reduction in I&I resulting from the project.

SUPPORTING DOCUMENTS

A . Task Order 53

Napa Sanitation District: Approve

Reviewed By: Timothy Healy