

Memorandum

TO: HONORABLE MAYOR
AND CITY COUNCIL

FROM: Katy Allen

**SUBJECT: DOWNER-CANOAS SANITARY
SEWER SYSTEM CLEANING**

DATE: 11-01-06

Approved

Date

11/3/06

COUNCIL DISTRICT: 10

RECOMMENDATION

Report on bids and take appropriate action based on the evaluation of bids for the Downer-Canoas Sanitary Sewer System Cleaning Project.

OUTCOME

The completion of the Downer-Canoas Sanitary Sewer Cleaning Project will ensure sewer capacity by removing the accumulation of sediment and debris from the primary trunk line serving the southern portion of Blossom Valley in South San José. The project will greatly reduce the potential for sanitary sewer overflows and sewer backups.

BACKGROUND

The Downer-Canoas Trunk collects sewer flows generated in residential and mixed-use neighborhoods of South San José and directs them north along an alignment that parallels Canoas Creek, east of Route 87 and south of Communication Hill (map attached). The slope of the line is very flat, which makes it prone to potential blockages and sediment build-up.

In recent years, Department of Transportation (DOT) staff has received numerous odor complaints from residents and businesses in the tributary areas (upstream) of the Downer-Canoas system.

In spring 2006, DOT staff, after receiving complaints about sewer lateral backups due to high flows in the line, requested Public Works staff to assist in the investigation for the causes of the high-flow condition.

In July 2006, flow-monitoring data identified and defined the limits of the high-flow conditions. Record drawing research and field reconnaissance identified past alterations to the system required for the construction of Route 85 and identified which portions of the sewer were running in excess of the design capacity.

Due to the full-pipe conditions, the standard video inspection of the pipe could not be conducted. With this information, staff obtained specialty contract services to conduct an internal sewer investigation using new sonar technology to generate a “map” of the interior of the sewer.

In September, RedZone Robotics/Pacific Liner initiated the sonar study. The investigation revealed a severe sediment and debris buildup in the upstream portion of the sewer. The brief investigation both confirms the cause for the surcharged conditions and provides an estimated volume of debris for project bidding purposes.

A cleaning operation of this scale is beyond the capability of DOT’s limited equipment inventory. Large sewers require specialized cleaning equipment that is expensive to own and operate. For this reason, and the need to remove as much of the sediment as possible prior to the wet-weather season, staff recommends the initiation of a capital project to clean the sewer. The proposed project consists of cleaning and removing debris from approximately 7,500 feet of the sewer.

The cleaning project is scheduled to begin in December with completion in January 2007.

ANALYSIS

A supplemental memorandum will be provided after bids are opened on November 2, 2006.

A 20 percent contingency is requested to respond to the potential for increased levels of debris within the portions of the sewer where the robotic inspection device could not enter. This amount exceeds the standard 10 percent contingency set forth in the Council policy for public works projects involving underground utilities. The funds budgeted for this project are sufficient to provide for the recommended contingency.

POLICY ALTERNATIVES

Not applicable.

PUBLIC OUTREACH

- Criteria 1:** Requires Council action on the use of public funds equal to \$1 million or greater. **(Required: Website Posting)**
- Criteria 2:** Adoption of a new or revised policy that may have implications for public health, safety, quality of life, or financial/economic vitality of the City. **(Required: E-mail and Website Posting)**
- Criteria 3:** Consideration of proposed changes to service delivery, programs, staffing that may have impacts to community services and have been identified by staff, Council

or a Community group that requires special outreach. **(Required: E-mail, Website Posting, Community Meetings, Notice in appropriate newspapers)**

To solicit consultants the project was listed on the City's Internet Bid Line and advertised in the *San José Post Record*. Due to the urgency of the project, the advertisement period was abbreviated to 15 calendar days with additional outreach to prospective bidders.

This placeholder memorandum will be posted on the City's website for the November 21, 2006 Council agenda, and the supplemental memo will be posted online during the week of November 06, 2006.

This project has been coordinated with the Santa Clara Valley Water District, and County of Santa Clara and State of California where a portion of the sewer resides within an easement.

COORDINATION

This project has been coordinated with the Departments of Transportation and Planning, Building and Code Enforcement and Environmental Services, the City Attorney's Office, and the City Manager's Budget Office.

FISCAL/POLICY ALIGNMENT

This project is consistent with the Council-Approved Budget Strategy Economic Recovery Section in that it will spur construction spending in our local economy.

COST SUMMARY/IMPLICATIONS

1. **AMOUNT OF RECOMMENDATION: \$790,000 (Engineer's Estimate).**

Cleaning Contract (Engineer's Estimate)	\$790,000
Contingency	\$158,000
Management	<u>\$200,000</u>
TOTAL PROJECT COST	\$1,148,000

2. **COST ELEMENTS OF CONSTRUCTION CONTRACT:** The cost elements of construction contract include mobilization, traffic control, and sewer cleaning, debris removal and disposal.

3. **SOURCE OF FUNDING:** 540 – Sanitary Sewer Connection Fee Fund
541 – Sewer Service and Use Charge Fund
545 – Sewer Service and Use Charge Capital Improvement Fund.

4. **FISCAL IMPACT:** The proposed operating and maintenance costs of this project have been reviewed, and staff has determined that the project will have no significant adverse

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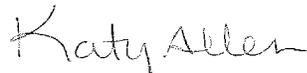
impact on the General Fund operating budget. The cleaning of Downer-Canoas System will reduce the frequency of sewer backups and maintenance costs for DOT.

BUDGET REFERENCE

Fund #	Appn #	Appn. Name	RC #	Total Appn.	Amt. for Contract	2006-2007 Adopted Budget (Page)	Last Budget Action (Date, Ord. No.)
540	4271	Miscellaneous Rehabilitation Projects	145479	\$1,500,000	\$ -0-	Capital V- 74	N/A
545	4306	Interceptor Cleaning	145499	\$600,000	\$490,000	Capital V - 73	N/A
541	0512	Department of Transportation Non-personal/Equipment	165350	\$2,409,044	\$300,000	Operating XI - 72	N/A
Total Current Funding Available				\$4,509.044	\$790,000		

CEQA

CEQA: Exempt, PP06-170.



KATY ALLEN
Director, Public Works Department

For questions please contact TIMM BORDEN, DEPUTY DIRECTOR, at 408 535-8300.

MO:TN:SG:hla
sg102306placeholdercm-DownerCanoasCleaning
Attachment

DOWNER - CANOAS TRUNK SANITARY SEWER SYSTEM CLEANING PROJECT

