



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: January 24, 2012

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Professional Services Agreement For Tertiary Filtration Assessment And Design

RECOMMENDATION:

That Council authorize the Public Works Director to execute a Professional Services Agreement with Camp Dresser McKee & Smith, Inc., in the amount of \$449,795 for engineering assessment and preliminary design services for the recycled water filtration facility, and authorize the Public Works Director to approve expenditures of up to \$44,980 for extra services of Camp Dresser McKee & Smith, Inc. that may result from necessary changes in the scope of work.

DISCUSSION:

The City's recycled water facility was constructed in 1989. It was one of the first recycled water facilities and distribution systems in California. The facility is located at the El Estero Wastewater Treatment Plant. Over time, the facility has been subject to corrosion and is now in need of significant refurbishment and optimization to allow the effective production of recycled water. There are also safety and operational design elements that need to be modified to eliminate potential problems with operation of the facility.

The City submitted requests for proposals to qualified firms and received four proposals from engineering firms interested in performing this engineering assessment and preliminary design work. Staff interviewed these four firms and Camp Dresser McKee & Smith Inc. (CDM Smith Inc.) was recommended to perform this work.

CDM Smith Inc. will evaluate existing recycled water treatment processes and will develop recommendations for proposed treatment process changes. CDM Smith Inc. is tasked with making recommendations for improving the filtration facility and recycled water system performance. CDM Smith Inc. will also evaluate the best approach and estimate the cost of adding a demineralization process to recycled water to reduce the dissolved solid concentration in the water and thereby reduce or eliminate the need for

blending with potable water. The consultant will use recommendations from the assessment study to develop an implementation plan.

Subsequently, CDM Smith Inc. will prepare preliminary design of the proposed projects to further define the recommended technical improvements. These preliminary design work products will be used to phase subsequent specific recycled water filtration facility final design and construction projects in the coming years so as to optimize the City's capital investment in the recycled water system.

BUDGET/FINANCIAL INFORMATION:

This project was anticipated, and there are adequate appropriated funds in the Water Capital Fund for this professional engineering and scientific assessment work.

SUSTAINABILITY IMPACT:

Recycled water is an important part of our water supply and helps to avoid the need to develop expensive new water supplies that would likely have high energy costs and potentially have other environmental impacts.

At their meeting of December 12, 2011, the Board of Water Commissioners voted 3-0-0 to approve staff's recommendation.

PREPARED BY: Christopher J. Toth, Wastewater System Manager/CJT/avb

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office