



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: November 18, 2014

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Contract For Design Of Sodium Hypochlorite Line Replacement At The El Estero Wastewater Treatment Plant

RECOMMENDATION:

That Council authorize the Public Works Director to execute a City Professional Services contract with MNS Engineers, Inc., in the amount of \$51,105 for design services of the Sodium Hypochlorite Line Replacement Project at the El Estero Wastewater Treatment Plant, and authorize the Public Works Director to approve expenditures of up to \$5,110 for extra services of MNS Engineers, Inc., that may result from necessary changes in the scope of work.

DISCUSSION:

BACKGROUND

The El Estero Wastewater Treatment Plant (El Estero) treats an average of approximately seven million gallons of wastewater each day. It is an activated sludge plant that uses microorganisms to biologically remove organic matter from wastewater.

A certain type of microorganism, Filamentous Bacteria (Filament), is beneficial to the biological treatment process in small amounts. However, in large quantities, it poses problems with treatment in the secondary clarifiers. At El Estero, there are certain times of the year when Filaments are present in large quantities, and they are controlled using sodium hypochlorite.

The existing sodium hypochlorite line is reaching the end of its useful life and now needs to be replaced. Through coordination with the Tertiary Filtration Replacement Project (Tertiary Project), a portion of this line was designed and will be constructed. This was done as a cost savings measure because new sodium hypochlorite lines were needed at the Tertiary Facility and, therefore, construction costs to add another line were minimal.

PROJECT DESCRIPTION

The Project includes replacement of the remaining portion of the sodium hypochlorite line, and the connection of the new line to existing chemical feed pumps at the chemical storage location and at the point of application. The work also includes utility potholing and bid phase support.

DESIGN PHASE CONSULTANT ENGINEERING SERVICES

Staff recommends that Council authorize the Public Works Director to execute a contract with MNS Engineers, Inc. (MNS), in the amount of \$51,105 for design, and \$5,110 for potential extra services, for a total amount of \$56,215. MNS prepared the design for the portion of this line replacement associated with the Tertiary Project and is experienced in this type of work.

FUNDING

The following summarizes all estimated total Project costs:

ESTIMATED TOTAL PROJECT COST

Design (by Contract)	\$56,215
Other Design Costs - City staff (if contract), Environmental (Assessments, etc.)	\$15,185
Subtotal	\$71,400
Estimated Construction Contract w/Change Order Allowance	\$200,000
Estimated Construction Management/Inspection (by Contract or City)	\$40,000
Estimated Other Construction Costs (testing, etc.)	\$2,500
Subtotal	\$242,500
TOTAL PROJECT COST	\$313,900

There are sufficient appropriated funds in the Wastewater Capital Fund to cover these costs.

PREPARED BY: Linda Sumansky, Principal Civil Engineer/LA/mh

SUBMITTED BY: Rebecca J. Bjork, Public Works Director

APPROVED BY: City Administrator's Office