

DRAFT**CITY OF SANTA BARBARA****COUNCIL AGENDA REPORT****AGENDA DATE:** February 24, 2009**TO:** Mayor and Councilmembers**FROM:** Water Resources Division, Public Works Department**SUBJECT:** Approval of Contract for Professional Services for the Design of the Headworks Screening Replacement Project at El Estero Wastewater Treatment Plant (EEWTP)**RECOMMENDATION:**

That Council authorize the Public Works Director to execute a contract with Carollo Engineering (Carollo) in the amount \$396,494, to design a replacement Headworks screening, conveyance and washer compactor system for influent wastewater flow into EEWTP and authorize the Public Works Director to approve expenditures up to \$40,000 to cover cost increases that may result from unanticipated changes to the scope of work.

DISCUSSION:

The existing screens and solids removal system has reached its useful lifetime, and is in need of replacement. Screening is a means to capture large and non-soluble solids at the intake of EEWTP. Screening and removal of large and/or non-soluble waste has a direct impact on the overall wastewater treatment process. Solids passing into the wastewater treatment process delay time to decompose the overall waste stream, thus affecting the quality and manageability of treatment time. The existing Headworks' screens do not capture all the influent flow, resulting in solids passing into the treatment process. In addition, this process is not manually controlled and does not have adequate conveyance from the screening area to the disposal pick-up. A replacement design is challenging in that the Headworks area is limited in space, it's in a critical location at the plant, and hauling/compaction area for the screened material is at a substantially higher elevation than the screens. Design challenges must also address construction sewerage bypassing of all incoming waste stream. The design scope incorporates automated controls and SCADA integration, modifications to the washer compactor area, replacement of washer compactor units, and a study of the emergency electrical generator's use for the new mechanical screens and conveyance.

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Carollo was selected from the professional services pre-qualified list. The selected firm has extensive background with EEWTP process and is familiar with the Headwork's

screening design challenges. Carollo performed the preliminary analysis and have prepared a proposal to address the critical design elements necessary for a successful replacement of the headwork screens.

BUDGET/FINANCIAL INFORMATION

Funds for design of the Headworks screening are available in the Wastewater Capital fund. There are not sufficient funds at this time for the full replacement construction cost estimates of approximately 4.2 million. Staff is causing the design in anticipation of future years Capital Improvement Project (CIP) funding, grants or possible economic stimulus funds. Staff will not solicit bids until funds have been identified.

SUSTAINABILITY CONTEXT

Removal of solids through the screening process reduces overall wastewater treatment process time which saves energy. Any new mechanical equipment resulting from the design will be selected for removal and energy efficiency.

ATTACHMENT(S): Attachment 1: Proposal and Scope of Services
Attachment 2: Contract for Professional Services

PREPARED BY: John Schoof, Wastewater System Manager/LC/nrs

SUBMITTED BY: Christine Andersen, Public Works Director

APPROVED BY: City Administrator's Office