

**COUNTY OF SAN LUIS OBISPO BOARD OF SUPERVISORS
AGENDA ITEM TRANSMITTAL**

(1) DEPARTMENT Public Works	(2) MEETING DATE 8/19/2014	(3) CONTACT/PHONE Eric Laurie, Project Manager (805) 788-2758	
(4) SUBJECT Request to approve an agreement for professional engineering services with SCS Engineers, Inc. in the amount of \$73,983 for the preparation of the selection and design of a groundwater extraction and treatment system for the Los Osos Landfill and authorize a budget adjustment, in the amount of \$129,500 from Capital Projects Facilities Planning Reserves. District 2.			
(5) RECOMMENDED ACTION It is recommended that the Board: <ol style="list-style-type: none"> 1. Approve and execute an agreement for professional engineering services (Agreement) with SCS Engineers, Inc., in the amount of \$73,983 for the selection and design of a groundwater extraction and treatment system for the Los Osos Landfill; 2. Authorize the Director of Public Works, or his designee(s), to sign amendments to the Agreement in an amount not to exceed the contingency fund amount of \$15,000; and 3. Authorize a budget adjustment in the amount of \$129,500 from the Facility Maintenance Planning reserves in the Capital Project Fund, by 4/5 vote. 			
(6) FUNDING SOURCE(S) Capital Project Fund (1100000000)	(7) CURRENT YEAR FINANCIAL IMPACT \$129,500	(8) ANNUAL FINANCIAL IMPACT \$0.00	(9) BUDGETED? No
(10) AGENDA PLACEMENT <input checked="" type="checkbox"/> Consent <input type="checkbox"/> Presentation <input type="checkbox"/> Hearing (Time Est. ___) <input type="checkbox"/> Board Business (Time Est. ___)			
(11) EXECUTED DOCUMENTS <input type="checkbox"/> Resolutions <input checked="" type="checkbox"/> Contracts <input type="checkbox"/> Ordinances <input type="checkbox"/> N/A			
(12) OUTLINE AGREEMENT REQUISITION NUMBER (OAR) 19001439		(13) BUDGET ADJUSTMENT REQUIRED? BAR ID Number: 1415014 <input type="checkbox"/> 4/5 Vote Required <input type="checkbox"/> N/A	
(14) LOCATION MAP Attached	(15) BUSINESS IMPACT STATEMENT? No	(16) AGENDA ITEM HISTORY <input type="checkbox"/> N/A Date: 12/06/11, #16	
(17) ADMINISTRATIVE OFFICE REVIEW <i>Nikki J. Schmidt</i>			
(18) SUPERVISOR DISTRICT(S) District 2			

Reference: 14AUG19-C-3

County of San Luis Obispo



TO: Board of Supervisors

FROM: Public Works
Eric Laurie, Project Manager
Dean Benedix, Utilities Division Manager

DATE: 8/19/2014

SUBJECT: Request to approve an agreement for professional engineering services with SCS Engineers, Inc. in the amount of \$73,983 for the preparation of the selection and design of a groundwater extraction and treatment system for the Los Osos Landfill and authorize a budget adjustment, in the amount of \$129,500 from Capital Projects Facilities Planning Reserves. District 2.

RECOMMENDATION

It is recommended that the Board:

1. Approve and execute an agreement for professional engineering services (Agreement) with SCS Engineers, Inc., in the amount of \$73,983 for the selection and design of a groundwater extraction and treatment system for the Los Osos Landfill;
2. Authorize the Director of Public Works, or his designee(s), to sign amendments to the Agreement in an amount not to exceed the contingency fund amount of \$15,000; and
3. Authorize a budget adjustment in the amount of \$129,500 from the Facility Maintenance Planning reserves in the Capital Project Fund, by 4/5 vote.

DISCUSSION

The Los Osos Landfill (site) was an active landfill from December 1958 through November 1988, accepting approximately 838,000 tons of refuse. The Public Works Department (Department) was assigned responsibility for maintaining the landfill to meet all Federal, State and County health laws, rules and regulations once waste disposal operations ceased. Since the landfill's closure, the Department has worked with the consensus and approval of the Regional Water Quality Control Board (Water Board) to conduct several corrective action programs focused on removing contaminants from groundwater directly beneath, and adjacent to the site. Long term groundwater monitoring at the site has identified a plume containing volatile organic compound (VOC) contaminants which extends beyond "the point of compliance", or "the vertical edge of the buried refuse" along the down gradient edge of the landfill.

Construction and initiation of operation of a landfill gas collection and removal system in 1998 contributed to a reduction of VOC levels in groundwater over the years, but not to levels within

regulatory compliance beyond the footprint of the buried refuse at the site.

In 1994, a site investigation was conducted by Emcon Associates and a technical report was submitted to the Department, detailing regional, as well as site specific geology and hydrogeology.

In 2006, an Engineering Feasibility Study for Corrective Action was prepared by Geologic Associates and submitted by the Department to the Water Board. The study assessed remediation options available to address the down gradient migration of VOCs in groundwater at the site, and identified bio-enhanced remediation as the preferred method to meet regulatory requirements. A bio-enhanced remediation pilot study was conducted at the site in 2008 and concluded the nature of the soil and aquifer at this location not suitable for a full scale bio-enhancement project, at that time.

Upon receiving the conclusions of the 2008 Geologic Associates Bio-enhancement Pilot Study, the Department advised the Water Board of its intention to follow the recommendations and conclusions of the study, and proposed a work plan consisting of continued monitoring and reporting of existing groundwater chemistry, operation of the landfill gas flare, maintenance of the cover cap and allowing for intrinsic remediation¹ of groundwater contamination at the site.

On August 24, 2011, the Water Board staff advised the Department that intrinsic remediation has not acceptably reduced groundwater contaminants to within regulatory limits. Your Board entered into a Contract with Golder Associates in December 2011 to develop a Conceptual Groundwater Extraction Technical Pilot Plan. Golder Associates re-reviewed the 2008 Geologic Associates study and recommend moving forward as soon as possible to constructing and operate groundwater extraction and treatment system to hydraulically contain the plume.

In August, 2013, a "test well" was constructed at the lower access road along the point of compliance at the facility for the purpose of conducting constant rate pumping tests. The purpose of the testing was to provide the selected project consultant with aquifer characteristics useful in designing a groundwater extraction well network and to assist in the design of an appropriate treatment system. This information will be used in addition to historic semi-annual water samples collected and analyzed from the existing groundwater and surface water monitoring network at the facility.

Solicited proposals from firms familiar with landfill groundwater contamination were all received by June 16, 2014. Three firms submitted proposals which were reviewed by a selection committee consisting of Public Works staff. The firm of SCS Engineers, Inc. is recommended because of their technical expertise, approach and understanding of the landfill issues and the County's needs.

Approval of this recommendation will provide for an Agreement with SCS Engineers to design the Los Osos Landfill Groundwater Extraction and Treatment system. SCS Engineers will assist the Department in selecting and designing an economically feasible extraction, treatment and disposal system that meets approval by the Water Board and all other applicable oversight agencies. The system is intended to hydraulically contain and minimize a plume of contaminated water from migrating beyond the regulatory point of compliance at the closed Los Osos Landfill facility. SCS Engineers will also provide support in negotiations and interactions with the Water Board and other regulatory agencies during the remediation system evaluation, design, and permitting phases of the Project. The design is anticipated to be complete in the spring of 2015. Staff will return to your Board at that time to present the results.

¹ Intrinsic remediation allows natural occurring biological or chemical processes to degrade contaminants.

OTHER AGENCY INVOLVEMENT/IMPACT

Agencies that may be involved with the Los Osos Landfill include Central Coast Regional Water Quality Control Board, Air Pollution Control Board and CalRecycle.

County Counsel has reviewed the Agreement as to legal form and effect.

FINANCIAL CONSIDERATIONS

The Agreement with SCS Engineers is being funded in the FY 2014-2015 Capital Project Fund (Fund 1100000000). Your Board approved this project in the FY 2013-14 budget, however there is not any budget for the FY 2014-15. It is now necessary for your Board to approve the total annual amount needed in order to fund this Agreement as well as fund the environmental permitting and project management efforts. A budget adjustment in the amount of \$129,500, canceling Facility Planning Reserves in the Capital Project Fund is needed at this time. Once the result of the remediation system evaluation are in, staff will return to your Board to report on the results.

RESULTS

Approval of the recommended action will provide for the completion of the groundwater extraction and treatment system selection and design to contain and minimize a plume of contaminated water from migrating beyond the regulatory point of compliance at the closed Los Osos Landfill facility. This will contribute to the County's goals of maintaining a safe, healthy and livable community.

Reference: 14AUG19-C-3

File: WBS 320071

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ATTACHMENTS

1. Vicinity Map
2. Agreement for Professional Engineering Services with SCS Engineers