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APPROVED  
BY THE CITY COUNCIL

JUN 10 1997

OFFICE OF THE  
CITY CLERK

DEPARTMENT OF  
PUBLIC WORKS  
SOLID WASTE DIVISION

CITY OF SACRAMENTO  
CALIFORNIA

May 21, 1997

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City Council  
Sacramento, California

Honorable Members in Session

**SUBJECT:** CHANGE ORDER 1 FOR THE 28TH STREET LANDFILL CLOSURE

**LOCATION and COUNCIL DISTRICT:**

20 - 28th Street (City of Sacramento Landfill) - Council District #3

**RECOMMENDATION:**

This report recommends that City Council adopt the attached resolution for a Change Order #1 to contract number CO-97-020 with Yubacon Inc./R.J. Gordon Const. Inc. The contract will increase by \$239,965.

**CONTACT PERSON:** Reina J. Schwartz, Manager, Solid Waste, 264-7043

**FOR THE COUNCIL MEETING OF:** June 10, 1997

**SUMMARY:**

The closure of the 28th Street Landfill is a regulatory requirement necessitated by a Notice and Stipulated Order of Compliance issued by the Local Enforcement Agency (LEA) to the City of Sacramento on August 15, 1996. Closure of the City Landfill will require the installation of additional landfill gas collection wells. The placement and installation of the additional wells will prevent the off-site migration of methane gas. The project changes included in this report are necessary to complete closure.

**COMMITTEE/COMMISSION ACTION:** None.

City Council  
Change Order 1 for the 28th Street Landfill Closure  
May 21, 1997

**BACKGROUND INFORMATION:**

Pertinent information regarding the City's landfill gas collection and landfill closure program is summarized below as background for the City's expansion of landfill gas collection system and Landfill Closure:

- The City of Sacramento Landfill is presently undergoing final closure construction. New construction includes a clay cap over Waste Management Unit B (WMU-B), installation of 15 landfill gas (LFG) extraction wells in WMU-B and 66 perimeter LFG extraction wells.
- The Local Enforcement Agency (LEA) and the Regional Water Quality Control Board will not accept our final closure unless we comply with federal and state regulations and mitigate existing and future landfill gas migration. Failure to comply with the LEA Notice and Stipulated Order of Compliance may subject the City to civil penalties of up to \$10,000 a day.
- The groundwater elevation at the landfill is controlled by levels of the American River. The groundwater level varies not only from season to season but from drought to normal or wet weather cycle.
- During the early 1990 drought, groundwater was at elevation -3.00 feet under the landfill, while presently the groundwater was as high as elevation 20.00 feet.
- Landfill gas will not migrate through groundwater; however, when the water level falls, methane will migrate in the area previously filled with groundwater. The landfill gas collection wells were designed to penetrate the area of potential migration during the drought cycle.
- When R.J. Gordon Construction Inc. commenced drilling the gas wells using conventional drilling methods, the wells filled due to high groundwater. As a result, the wells began to collapse and continued construction became impossible. To mitigate this problem, the contractor must change the type of drilling. The revised drilling required is more expensive which triggers the need for the change order. It has also become necessary to stabilize the wells with cement slurry to further prevent the collapse of the wells from trash and construction debris. The use of a cement slurry increased the project cost. Additional items are referred to in Change Order 1.

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**FINANCIAL CONSIDERATIONS:**

This change order will add \$ 239,965 (13.3%) to the cost of the landfill closure. The unobligated fund balance in YA06 balance is \$ 500,000, which is sufficient to cover the change order.

**ENVIRONMENTAL CONSIDERATIONS:**

The construction of closure has undergone CEQA.

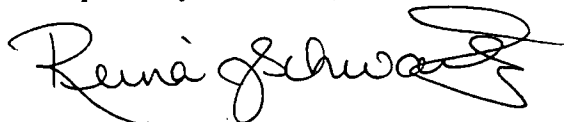
**POLICY CONSIDERATIONS:**

Federal and State regulation requires the City to control landfill gas emissions and to prevent the off-site migration of landfill gas. Compliance with Federal and State Regulations is consistent with the City Council's priority regarding public safety.

**MBE/WBE:**

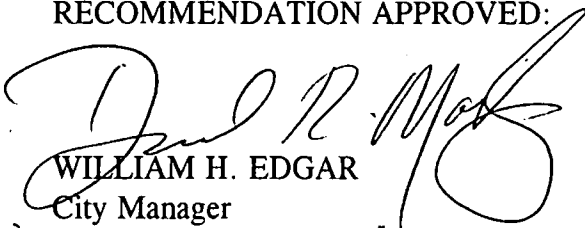
Not applicable. Contract was awarded in January 1997.

Respectfully submitted,



Reina J. Schwartz  
Manager, Solid Waste

RECOMMENDATION APPROVED:



WILLIAM H. EDGAR  
City Manager

Approved:



Michael Kashiwagi  
Director of Public Works

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**RESOLUTION NO. 97-308**

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF \_\_\_\_\_

RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE A CHANGE ORDER #1 WITH YUBACON INC./R.J. GORDON CONST. INC FOR AN AMOUNT NOT TO EXCEED \$239,965 FOR THE CONSTRUCTION OF CLOSURE AT THE 28TH STREET LANDFILL

WHEREAS, controlling landfill gas migration is consistent with the City Council priority of public safety; and,

WHEREAS, controlling landfill gas emissions is required under federal regulation; and,

WHEREAS, The City of Sacramento is bound by a Local Enforcement Agency Notice and Stipulated Order of Compliance to add landfill gas wells, clay cap and migration control wells at the landfill ; and,

WHEREAS, it was found during construction that groundwater is unusually high under the landfill and the construction of the landfill gas collection wells needed substantial revision and a special construction method; and,

THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO THAT:

1. The City Manager is authorized to execute a Change Order #1 for an amount not to exceed \$239,965 with Yubacon Inc./R.J. Gordon Const. Inc. for construction of the migration control wells and additional landfill gas collection wells at the 28th Street Landfill.

\_\_\_\_\_  
MAYOR

ATTEST:

\_\_\_\_\_  
CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO.: \_\_\_\_\_

DATE ADOPTED: \_\_\_\_\_

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