

**SUBMITTAL TO THE BOARD OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

865



**FROM:** Waste Management Department

**SUBMITTAL DATE:**  
September 11, 2013

**SUBJECT:** Flood Damage to the Phase 2, Stage 4 Liner System at the Lamb Canyon Landfill -  
Authorization for Additional Funds to Repair Damage - District 5 - [Total Requested Amount: \$500,000]

**RECOMMENDED MOTION:** That the Board of Supervisors:

1. Authorize the General Manager-Chief Engineer to approve payment for storm damage repair work for an amount not to exceed \$500,000

**BACKGROUND:**

**Summary**

On March 12, 2013, the Board awarded Sukut Construction, Inc. (contractor) a contract to construct a composite liner system within a 23-acre area (referred to as Phase 2, Stage 4 Expansion) at the Lamb Canyon Sanitary Landfill. The total contract amount is \$10,504,231.50. Construction began March 18, 2013 and was progressing smoothly and satisfactorily, with a completion projected in December 2013, approximately 2 months ahead of schedule. To date, more than 50% of the contracted work has been completed. (continued)

Hans Kernkamp  
General Manager-Chief Engineer

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (per Exec. Office)
COST	\$ 500,000.00	\$ 0	\$ 500,000.00	\$ N/A	Consent <input type="checkbox"/> Policy <input type="checkbox"/>
NET COUNTY COST	\$ 0.00	\$ 0	\$ 0.00	\$ N/A	

**SOURCE OF FUNDS:** Waste Management Department Enterprise  
Funds

Budget Adjustment: No
For Fiscal Year: 13/14

**C.E.O. RECOMMENDATION:** APPROVE  
BY:   
Alex Gann

County Executive Office Signature

**MINUTES OF THE BOARD OF SUPERVISORS**

On motion of Supervisor Stone, seconded by Supervisor Ashley and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Tavaglione, Stone, Benoit and Ashley  
Nays: None  
Absent: None  
Date: September 24, 2013  
xc: 5015 226 Waste 5: 53

Kecia Harper-Ihem  
Clerk of the Board  
By:   
Deputy

FORM APPROVED COUNTY COUNSEL  
BY:   
NEAL R. KIPNIS  
DATE: 9/12/13

Departmental Concurrence

- A-30
- 4/5 Vote
- Positions Added
- Change Order

**SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**  
**FORM 11: Flood Damage to the Phase 2, Stage 4 Liner System at the Lamb Canyon Landfill - Authorization for Additional Funds to Repair Damage - District 5 - [Total Requested Amount: \$500,000]**

**DATE:** September 11, 2013

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**BACKGROUND: Summary (continued)**

This work includes the excavation of approximately 1.5 million cubic yards of earthwork, preparation of subgrade within the 23-acre expansion area to receive the geosynthetic liner material, and installation of a few of the required layers of the composite liner system within approximately 15 acres.

On Friday, August 30, 2013, the expansion project area was significantly damaged by a 45-minute deluge of an intense rainstorm. That rainstorm was later verified by the Department's engineering staff, based on rain gage records published by the Riverside County Water Conservation and Flood Control District, to have exceeded the return period of a 100-year storm event. The intensity of this rainstorm exceeded the design standards and regulatory requirements to control surface runoff within landfill facilities. Moreover, most components of the existing surface drainage system were undergoing improvements in order to conform to the current and projected landfill grades due to the ongoing landfill operations. The drainage system improvement work is located immediately upstream of the current expansion project, and it is typically performed during the summer months pursuant to the requirements of one of the facility permits which is issued and enforced by the Regional Water Quality Control Board. As a result of these concurrent circumstances, the runoff from the landfill area could not be controlled and diverted around the expansion area located downstream; instead, it went through the expansion area causing severe damage to the majority of the completed work.

In order to avoid potential delay claims by the contractor, and to bring the project back on schedule thus avoiding interruption in disposal services to the public, the Department has directed the contractor to proceed with the repair work which is estimated to require approximately one month to complete.

**Impact on Citizens and Businesses**

If this landfill expansion project is not completed on schedule, the disposal services for the public that is served by the Lamb Canyon Landfill could be interrupted or halted. More specifically, the current remaining disposal capacity at this site is estimated to be exhausted by August of 2014, and this project is slated to be completed at least six months before this date. Furthermore, this expansion project will provide landfill airspace for an additional 10.5 million tons of refuse which is projected to extend the remaining site life by approximately 15-20 years.

**SUPPLEMENTAL:**

**Additional Fiscal Information**

Prior to authorizing the contractor to proceed with the repair work, however, the Department's engineering staff conducted an initial assessment of the damage caused by this rainstorm and estimated the cost for the necessary repair work and the associated QA/QC observation and testing to be approximately \$500,000 based on the quantity of geosynthetic liner material needing to be removed and replaced.

Budget for this additional work will be provided from Fund 40200, Department ID – 4500100000.

**Contract History and Price Reasonableness**

This estimated cost of repair is based on the unit prices for geosynthetic materials in the current Phase 2, Stage 4 Expansion contract and also on previous similar repair work for items with no prescribed basis for payment in the contract. The actual cost for this repair work will be determined based on a combination of contract unit prices and "force account" basis as described in Section 7 of the General Provisions in the Contract Documents. After the repair work is completed, a Contract Change Order reflecting the exact cost will be prepared and presented to the Board for approval.