

December 5, 2011

Board of Directors
Ventura Regional Sanitation District
Ventura, California

TOLAND LANDFILL PHASE 3B LINER CONSTRUCTION UPDATE AND CHANGE ORDER NO. 5 TO VRSD CONTRACT NO. 10-004 WITH SUKUT CONSTRUCTION, INC.

Background

VRSD Contract No. 10-004 was awarded to Sukut Construction, Inc. (Sukut) for construction of the Toland Landfill Phase 3B Liner on May 6, 2010, for a not-to-exceed amount of \$4,816,935. The Notice to Proceed was issued on March 18 and work was initiated on June 1, 2010. Change Order No. 1 was approved on October 7, 2010, for \$83,037.50. Change Order No. 2 was approved on November 18, 2010 for \$59,510.24. Change Order No. 3 was a net zero cost change order that allowed for the adjustment of existing bid item quantities and other miscellaneous work. Change Order No. 4 was approved on August 22, 2011 in the amount of \$57,101.49.

Change Order No. 5 represents the last and final change order for this project. Sukut has completed their work on both Part 1 and Part 2 of Phase 3B and they left the site in mid November.

Two of the three elements of this change order represent extra work that was requested by the district, above and beyond those tasks defined in the original contract. The first task was to build a road to access the new cell area. A road to this location was not included in the original contract because there were too many unknown conditions related to the bedrock and stability in this area. Because this site is where the old Operations and Maintenance Center for the landfill used to be located, and it was anticipated that we would encounter a large quantity of unsuitable material, it was difficult to determine what conditions would be found during excavation. Additionally, there was originally consideration as to whether it would be feasible and practicable to construct an access road out of refuse rather than soil. However, as the project proceeded it was determined that we needed to construct a temporary road out of soil to ensure proper protection to the new liner. While approximately 11,000 cy of soil were used to build this road, this soil will be ultimately be used as intermediate cover in this new cell so that all available air space is maximized. The cost of constructing this road was \$135,046.00.

The second task that was requested of Sukut that was not part of the original project was to install a second lechate sump and riser. This second system will allow us to have redundancy in our system in case a riser pipe collapses due to the weight of the refuse or if it becomes clogged due to a variety of reasons. The time to install such a system is during construction and prior to filling with refuse. Once refuse is placed in this area it becomes very difficult to excavate and maintain this system as it is at the lowest point in the refuse cell. The cost for installing this additional lechate sump and riser was \$3,838.00.

The last task associated with this change order is related to the final tie in of Phase 3B to Phase 3A. While the tie in connection is designed and planned based on assumptions as to what will be found at the site, in reality this is extremely site specific and must be handled as conditions warrant. This liner connection occurred at the very lowest point in the landfill. As you are aware, a landfill liner system is comprised of numerous layers. In our case, where the layers of Phase 3A ended and were supposed to join to Phase 3B, a termination berm was constructed as a temporary measure until Phase 3B was constructed. Due to the excessively heavy rains last year, it appears that this termination berm was inundated with lechate to the degree that a small volume (less than 1500 gallons) surpassed the termination berm and migrated into some of the layers of the liner system. When this happens, RWQCB requires the terminal end of the liner to be peeled back very carefully, under observation, to determine the extent of the lechate migration. Fortunately, we did not have a release to the ground, though some of the lechate did migrate through various layers of the liner system. All of this work had to be done with utmost care, mapped, sampled and thoroughly documented for the RWQCB. Once the layers were pulled back to the limits of the lechate, the saturated soil had to be excavated until dry competent material was identified. The liner crew and survey crews were deployed numerous times throughout this portion of the project. Work associated with all aspects of the liner tie in was \$138,700.00

Finally, the quantity adjustments associated with this project are \$96,308.73. These items include an increase in the amount of structural fill, clay, gravel and concrete used.

Change Order No. 5 is summarized below. Please refer to the attached Change Order for more detail. Attachments to the Change Order provide further information and may be reviewed by contacting the Clerk of the Board.

Item 1: Construction of an access road for the new cell	\$135,046.00
Item 2: Installation of a second lechate pump and riser	\$3,838.00
Item 3: Excavation of saturated soil and final liner tie in	\$138,700.00
Item 4: Final quantity adjustment	\$96,308.73
Change Order No. 5 Total:	\$373,892.73

8-2

The table below summarizes the contract and change orders to date.

DATE	REFERENCE	PURPOSE	AMOUNT
5/06/10	Contract 10-004	Initial award of contract – Board approved.	\$4,816,935.00
5/18/10	Notice to Proceed	Authorization to commence work.	n/a
10/7/10	Change Order No. 1	Additional alluvial removal and slide mitigation, K-rail relocation, gas and leachate pipe location, slope overbuild trim, additional unsuitable removals, reduction in refuse excavation and composite liner quantities, time extension, additional hydroseeding, debris/wet removals, repioneering access, N. bench tie-in.	\$83,037.50
11/18/10	Change Order No. 2	Increase hydroseeding, adjust quantities to reflect changing field conditions, sub-drain installation in over-excavation area, refuse limit as-built surveying/documentation/ subgrade, restaking and grading, damaged tires in debris areas cut.	\$59,510.24
2/17/11	Change Order No. 3	Adjust of existing bid item quantities, change steep road from AC to concrete, additional part 1 v-ditches, stabilize part 2 NE sandy slope cut and miscellaneous work.	\$0.00
09/01/11	Change Order No. 4	Remove saturated unsuitable material, and road re-grade and alignment.	\$57,101.49
12/15/11	Change Order No. 5	Build access road to new cell, install lechate sump and riser, excavation of saturated soil and tie into Phase 3A, final quantity adjustment.	\$373,892.73
	TOTAL:		\$5,390,476.96

The cumulative total of change orders to date is 11.9% of the original project cost.

Legal Counsel has reviewed and approved the proposed change order as to legal form. If you have any questions or need additional information, please contact me at 658-4674.

Fiscal Impact

Appropriation for this amendment is included in the adopted Fiscal Year 2012 Capital Plan Budget, Toland Road Landfill Phase 3B Liner project.

8-3

Recommendation


It is recommended the Board authorize the Chairman to sign Change Order No. 5 to VRSD Contract No. 10-004, Sukut Construction, Inc., for the Toland Landfill Phase 3B Liner Construction Project, in the amount of \$373,892.73 with an adjusted contract amount of \$5,390,476.96.



SALLY COLEMAN – DIRECTOR OF OPERATIONS

Enc.

APPROVED FOR DECEMBER 15, 2011 AGENDA


Mark Lawler – General Manager

8-4

VENTURA REGIONAL SANITATION DISTRICT

CHANGE ORDER

Distribution to:
CONTRACTOR (X)
PROJECT MANAGER (X)
FINANCE (X)

PROJECT: Toland Landfill – Phase 3B Liner Construction

CHANGE ORDER NUMBER: 5

CONTRACT: 10-004

INITIATION DATE: 12/15/11

TO: Michael Crawford, President
Sukut Construction, Inc.
4010 West Chandler Avenue
Santa Ana, CA 92704

CONTRACT DATE: 5/6/2010

The following Changes in, additions to, or deletions from the work specified in Contract Plans and Specifications are hereby authorized:

All work in this Change Order, unless stated otherwise (i.e. – by bid item or other agreed upon reimbursement) shall be reimbursed by equipment costs according to equipment and labor rates per the Contract. Contractor shall provide tickets on a daily basis, reviewed and approved (if applicable) by the District. All work shall be conducted within the guidelines of the Contract Documents.

Item 1: Construction of an access road for the new cell

Build access road to new cell.

Item 1 Subtotal: \$135,046.00

Item 2: Installation of a second leachate pump and riser

Install leachate sump and riser.

Item 2 Subtotal: \$3,838.00

Item 3: Excavation of saturated soil and final liner tie in

Excavate saturated soil and tie into Phase 3A.

Item 3 Subtotal: \$138,700.00

Item 4: Final quantity adjustment

Final quantity adjustment.

Item 4 Subtotal: \$96,308.73

8-5

Change Order No. 5 Summary:

Item 1: Build access road to new cell.	\$135,046.00
Item 2: Install leachate sump and riser.	\$3,838.00
Item 3: Excavate saturated soil and tie into Phase 3A.	\$138,700.00
Item 4: Final quantity adjustment.	<u>\$96,308.73</u>

Change Order No. 5 Total: \$373,892.73

The original contract amount was	\$4,816,935.00
Net change by previously authorized Change Orders.	\$199,649.23
The Contract Sum prior to this Change Order was	\$5,016,584.23
The Contract Sum will be increased by this Change Order	\$373,892.73
The new Contract Sum including this Change Order will be	\$5,390,476.96
The Contract Time for Stage 1 will be increased	0 calendar days
The Contract Time for Stage 2 will be increased	0 calendar days

The undersigned CONTRACTOR, having given careful consideration to the changes proposed, hereby agrees if this proposal is approved by the DISTRICT, that the CONTRACTOR will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work specified above, and will accept as full payment therefore the prices shown above.

Accepted:

SUKUT CONSTRUCTION, INC.

Approved:

VENTURA REGIONAL SANITATION DISTRICT

BY: MICHAEL CRAWFORD, President

BY: JAMES L. MONAHAN, Chairman

DATE:

DATE:

INTERNAL USE ONLY

Principal Analyst _____

Finance Manager _____

Director of Finance TD _____

Fiscal Technician _____

8-6