

RECEIVED  
CONTRACT MANAGEMENT

West Nassau Landfill - Final Closure <sup>2012 AUG 30 AM 10: 15</sup>  
Contract No. CM1734 (Bid No. NC11-004)

**ALLOWANCE AUTHORIZATION**  
**(Line Item #4)**

Issued by: Golder Associates Inc.  
To: Comanco Environmental Corporation  
Allowance Authorization No.: 15  
Date: 7/13/2012

**Description: The following allowance is authorized:**

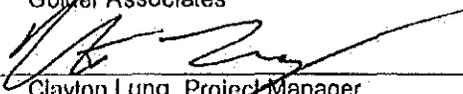
|   |    |                 |
|---|----|-----------------|
| 1 Additional GFFR Installation - 61LF@ \$110/LF per Bid Item 12   | \$ | <u>6,710.00</u> |
| 2 Additional GFFR blanket installation - 12% above Bid Item 13<br>(Cost break down is detailed in the attached back-up memo from Comanco) | \$ | <u>2,160.00</u> |

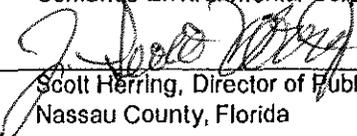
**Total:** \$ 8,870.00

Additional Time Authorized: NA Days (Additional days must be approved by written Change Order)

|                                      |    |            |
|--------------------------------------|----|------------|
| Beginning Allowance Amount:          | \$ | 600,000.00 |
| Allowance Previously Authorized:     | \$ | 186,579.64 |
| Remaining Allowance Available:       | \$ | 413,420.36 |
| Amount Authorized by this Allowance: | \$ | 8,870.00   |
| Amount Remaining:                    | \$ | 404,550.36 |

Issued by:  July 13, 2012  
Glenn R. Carwell III, Senior Engineer and Associate  
Golder Associates Date

Accepted by:  July 13, 2012  
Clayton Lung, Project Manager  
Comanco Environmental Corporation Date

Approved by:  8/20/12  
Scott Herring, Director of Public Works  
Nassau County, Florida Date

Approved by:  8/31/12  
Charlotte Young, Contracts Administrator  
Nassau County, Florida Date



A handwritten signature in dark ink, appearing to be "RC", is located in the upper right quadrant of the page.

July 12<sup>th</sup>, 2012

Mr. Chip Carwell  
Golder Associates  
9428 Baymeadows Road, Suite 400  
Jacksonville, FL 32256

**RE: WEST NASSAU LANDFILL CLOSURE 1 – Allowance Request #15– Additional Installed GFFR Quantities**

Mr. Carwell,

COMANCO over-ran the contract value of Bid Item 12B: 6' Wide GFFR Downslope Channel and Bid Item 13: GFFR Blanket Installation. Below is a breakdown for each item:

6' Wide GFFR Downslope Channel (Bid Item 12B)

This item includes the South and East Downslope channels. We were contracted to install 614 LF and our survey of the actual installed quantity shows 675 LF – a 61 LF surplus. For both of these channels, our take-off was to the limits of construction which was at the bottom of the slope. This did not include the flat zone between the slope and the ditch. We actually constructed the channel across the flat area at the bottom of the slope and terminated at the crest of the ditch where it is then considered GFFR blanket. Also, at the top, we had it stopping at the top of the berm, but it actually went past that berm creating a bowl at the top and then a few more feet back and to the anchor trench. This created additional LF on top and bottom. The East channel was also re-designed to flow Northeast in lieu of straight East creating additional LF. The contract value for these items is \$110 / LF so we are requesting an additional **\$6,710** (61 LF x \$110 / LF) for this item.

GFFR Blankets (Bid Item 13)

This item includes the ditch areas, "Blankets", at the end of the South and East Downslope Channels. Our total square foot (SF) estimate for this item was 2,038 SF (1,094 SF + 944 SF) and our survey of the installed actual quantity was 2,283 SF (1,236 SF + 1,047 SF), roughly a 12% increase. On the original drawings, these areas were not very clear to the limits. We performed the best take-off we could with the blankets outlined in the drawings at the time of bid. In addition, the East blanket was re-designed and made larger by the time of installation. The contract value of this item is \$18,000 so we are requesting an additional **\$2,160** (\$18,000 x 12%) for this item.

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**ENVIRONMENTAL CORPORATION**

COMANCO is requesting an additional total of \$8,870 (\$6,710 + \$2,160) for both of the items of above.

We have enclosed the original estimate showing our original quantities as well as an illustration showing the discrepancies of the estimated quantities vs actual installed quantities. We have also attached our survey data showing the actual LF of downslope channels and actual SF of blankets for your reference.

Please let us know if there are any questions.

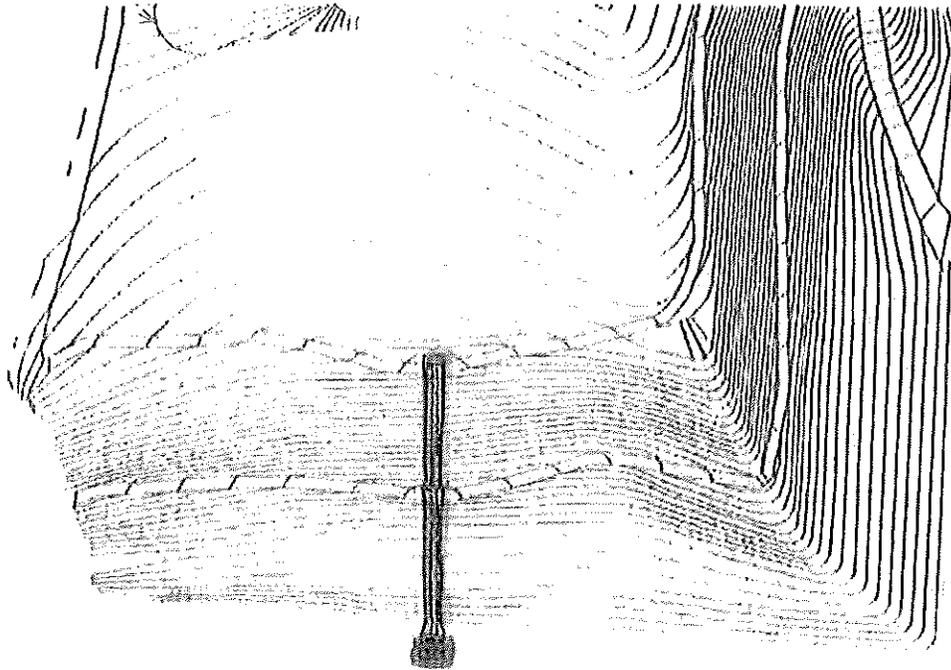
Sincerely,

Thomas Raab  
Project Engineer  
*COMANCO Environmental Corporation*

07114592 Nassau

- Bill Jern 12B

File: Downslope Fabriform JS 4-4-12.esw



**Length/Area Calculation**

Layer: Profile Lines  
Line: Fabriform - Downslope Channel

|                  |           |          |       |       |
|------------------|-----------|----------|-------|-------|
| Line Length:     | 785.008   | Feet     | 261.7 | Yards |
| Slope Length:    | 785.008   | Feet     | 261.7 | Yards |
| Horizontal Area: | 7,789.808 | Sq. Feet | 0.2   | Acres |
| Slope Area:      | 8,175.179 | Sq. Feet | 0.2   | Acres |

2 ft Toedown = 2 LF x 787 LF = 1,634 SF

**Length/Area Calculation**

Layer: Profile Lines  
Line: Fabriform - Ditch

|                  |                      |          |      |       |
|------------------|----------------------|----------|------|-------|
| Line Length:     | 122.592              | Feet     | 40.9 | Yards |
| Slope Length:    | 122.592              | Feet     | 40.9 | Yards |
| Horizontal Area: | 938.734              | Sq. Feet |      | Acres |
| Slope Area:      | <del>1,047.028</del> | Sq. Feet |      | Acres |

2 ft Toedown = 2 LF x 101 LF = 202 SF

Ditch length

369 LF

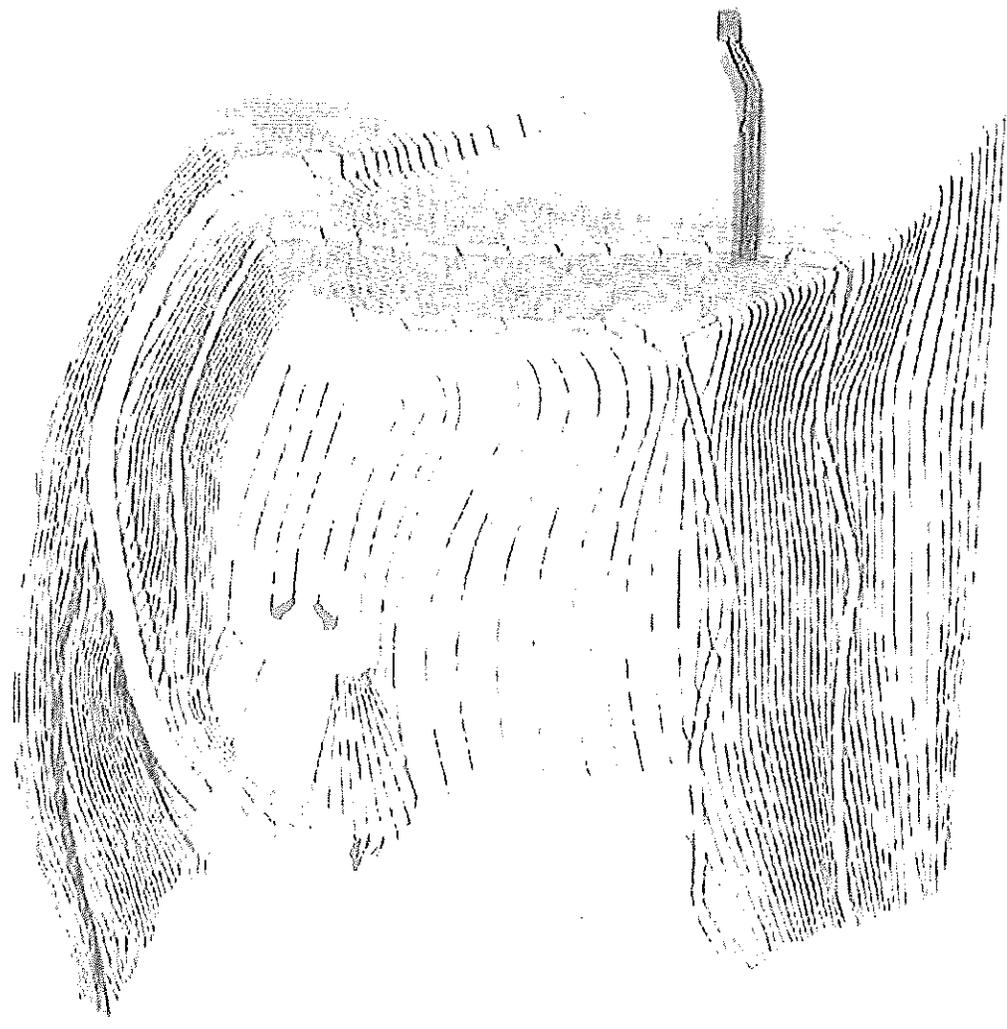
$$= 785/2 - 15'$$

JRL

JRC

Dr. Items UB & B

07114592 Nassau  
 File: East Downslope Fabriform JS 4-19-12.esw



**Length/Area Calculation**

Layer: Profile Lines  
 Line: Fabriform - Ditch

|                  |           |          |       |       |
|------------------|-----------|----------|-------|-------|
| Line Length:     | 649.218   | Feet     | 216.4 | Yards |
| Slope Length:    | 649.218   | Feet     | 216.4 | Yards |
| Horizontal Area: | 6,044.113 | Sq. Feet | 0.1   | Acres |
| Slope Area:      | 6,413.341 | Sq. Feet | 0.1   | Acres |

1x1 AT = 2 LF x 638 LF = 1,278 SF

REC  
 Ditch length  
 365 LF =  $649/2 - 15$

**Length/Area Calculation**

Layer: Profile Lines  
 Line: Fabriform - Blanket @ Top

|                  |           |          |       |       |
|------------------|-----------|----------|-------|-------|
| Line Length:     | 132.194   | Feet     | 44.1  | Yards |
| Slope Length:    | 132.194   | Feet     | 44.1  | Yards |
| Horizontal Area: | 1,154.052 | Sq. Feet | Acres | Acres |
| Slope Area:      | 1,285.631 | Sq. Feet | Acres | Acres |

1x1 AT = 2 LF x 118 LF = 236 SF

REC

6' DS CHANNEL  
 $369' + 306' = 675' \text{ Total}$

Blankets  
 $1,136 \text{ SF} + 1,047 \text{ SF} = 2,183 \text{ SF Total}$

HRC

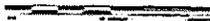
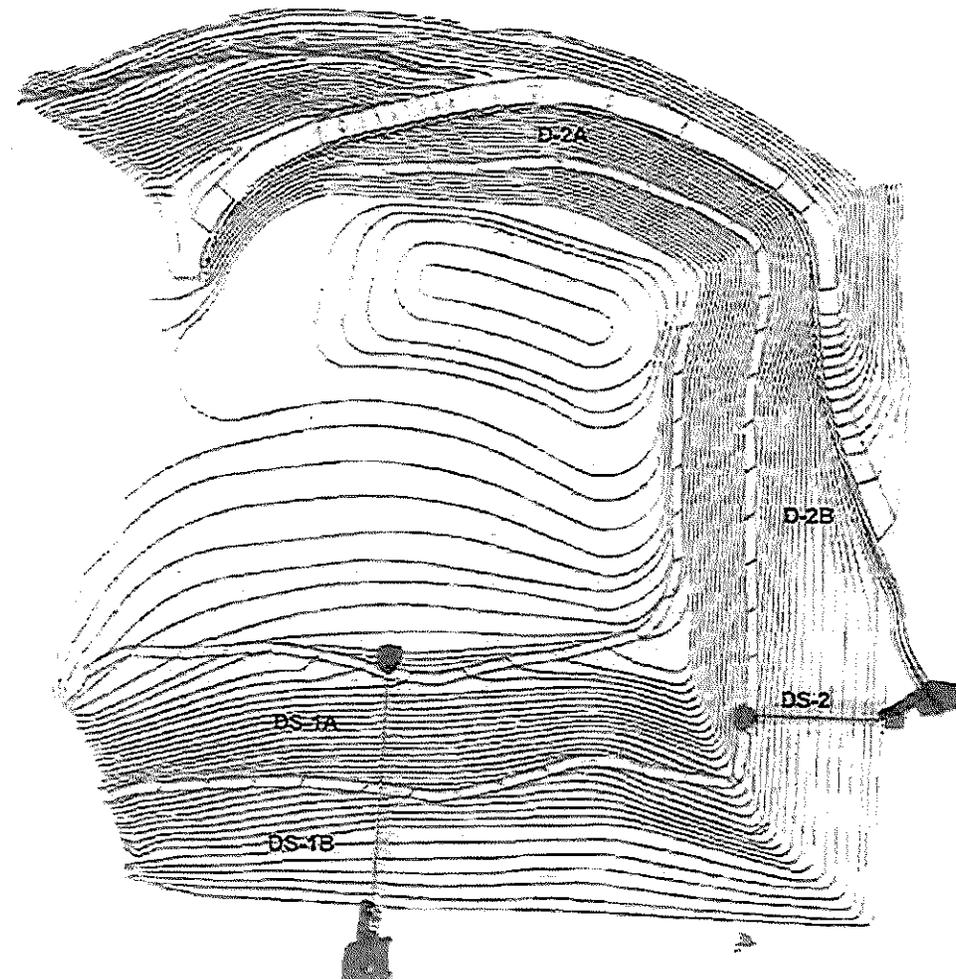
07114592 Nassau  
File: Fabriform JS 3-18-11.esw

Downchute Fabriform  
15 LF x 514 LF = 9,210 SF  
2 ft Toedown = 288 SF  
Wings = 543 SF  
TOTAL = 10,041 SF

GFFR at end of DS-1B (SE corner)  
944 SF

GFFR at end of DS-2 (south side)  
1094 SF

D-2A and D-2B Channel  
Length = 1,727 LF  
GFFR  
22 LF x 1727 LF = 37,994 SF  
2 ft Toedown = (1727 x 2) + (22 x 2) = 3,498 SF





**Carwell, Chip**

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**From:** Thomas Raab <traab@comanco.com>  
**Sent:** Friday, July 13, 2012 3:07 PM  
**To:** Carwell, Chip  
**Cc:** Grigg, Don; Clayton Lung; Becky Hiers  
**Subject:** RE: West Nassau GFFR Allowance Request  
**Attachments:** Allowance Request #15- Additional GFFR TR 7-13-12.pdf

Chip,

Per our conversation this afternoon, the "Wing" called out on the page 3 represents the areas where the downslope channels flare out on the lower berm and the Line Length called out Page 4 & 5 represents the perimeter length of the downslope channels. Please let me know if there are any more questions.

Thanks, Thomas

**From:** Thomas Raab  
**Sent:** Friday, July 13, 2012 10:26 AM  
**To:** 'Carwell, Chip'  
**Cc:** 'Grigg, Don'; Clayton Lung; 'Becky Hiers'  
**Subject:** West Nassau GFFR Allowance Request

Chip,

Please find the attached allowance request for the over-runs on the GFFR material. Let me know if you have any questions.

Thank you,

Thomas Raab  
COMANCO Environmental  
813-918-1441