

## Wilson, Donna

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**From:** David Garrett [david@davidgarrettpe.com]  
**Sent:** Sunday, September 13, 2009 8:01 PM  
**To:** 'Donna Wilson'; ed.mussler@ncmail.net  
**Cc:** 'judson whitehurst'; 'Wayne Bell'; 'John A.K. Tucker, PE'  
**Subject:** Alternate Financial Assurance Supplement

Please see attached document with a breakdown of earthwork costs requested by SWS.

**David Garrett, P.G., P.E.**  
David Garrett & Associates  
5105 Harbour Towne Drive  
Raleigh, NC 27604

Tel. 919-418-4375 (mobile)

## Wilson, Donna

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**From:** David Garrett [david@davidgarrettpe.com]  
**Sent:** Monday, September 14, 2009 8:17 AM  
**To:** 'David Garrett'; 'Donna Wilson'; ed.mussler@ncmail.net  
**Cc:** 'judson whitehurst'; 'Wayne Bell'; 'John A.K. Tucker, PE'  
**Subject:** RE: Alternate Financial Assurance Supplement  
**Attachments:** alternate financial assurance request - supplemental information.pdf

Excuse me. Let's try this again with the attachment. All ten fingers weren't working yesterday.

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## **David Garrett & Associates**

*Engineering and Geology*



September 13, 2009

Ms. Donna Wilson, Regional Engineer  
NC Division of Waste Management  
Solid Waste Section  
Mail Service Center 1646  
Raleigh, NC 27699-1646

RE: SUPPLEMENTAL INFORMATION  
Alternate Financial Assurance Calculation  
C&D Landfill, Inc. (Pitt County)  
NC Solid Waste Permit #74-07

Dear Ms. Wilson:

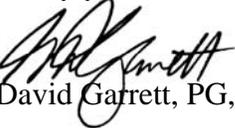
Per your request, I am pleased to present the attached breakdown of unit earthwork costs for the upcoming closure of the C&D Landfill, Inc. Phase 1. These costs were included in our Financial Assurance calculations (both the original calculation presented in the May 2009 PTC application and the August 11, 2009 Alternative Financial Assurance calculation letter). You later asked for a detailed breakdown of the unit costs to support the estimated earthwork costs, which had been furnished by a local contractor. Now, we have refined that unit cost estimate based on anticipated working time, hourly equipment and operator charges (assuming rental equipment), and soil purchase costs.

The borrow site is located immediately adjacent to the landfill and is accessible with off-road vehicles – round-trip haul distance is less than one mile. The borrow site is a permitted mine that is owned by Judson Whitehurst but is not part of the landfill facility, per se. Soil purchase costs shown in the attached cost breakdown are consistent with the current rate charged to mine customers, i.e., the “gate rate.”

Please keep in mind that the closure of Phase 1 will occur later this year and the bond will need to be recalculated accordingly – the Financial Assurance calculation covers both Phase 1 and Phase 2A. The unit costs are less than those projected by the contractor in the August 11, 2009 letter, thus we represent that the costs in the August 11, 2009 letter are correct and will provide sufficient “cushion” when projected to Phase 2A.

C&D Landfill, Inc. is in the process of obtaining a surety bond to meet the financial assurance requirements of the permit. This documentation will be forwarded to the Solid Waste Section as soon as it is available. Please contact Wayne Bell (General Manager) or myself if you have any questions or comments. We look forward to your response.

Cordially yours,

  
G. David Garrett, PG, PE

Cc: Judson Whitehurst – C&D Landfill, Inc.  
Wayne Bell – C&D Landfill, Inc.  
Ed Mussler – NC DWM Solid Waste Section  
John Tucker, PE – Consulting Engineer

**C&D Landfill, Inc. Phase 1  
Final Closure Earthwork Cost Estimate**

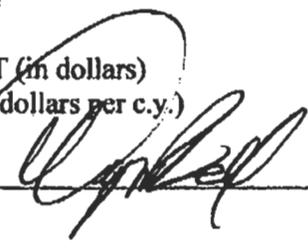
Topsoil – 36,300 c.y. common borrow, two lifts tracked in, no testing requirements

<b>Hauling and Placement</b>	<b>Hours</b>	<b>Unit Rate</b>	<b>Total Cost</b>
CAT 225 excavator	?	?	? 11,000
40-yard off-road dump truck	?	?	? 9,000
40-yard off-road dump truck	?	?	? 9,000
D-6 dozer to spread the soil	?	?	? 4,000
CAT 836 compactor	?	?	?
			= 33,000.00
<b>Soil Purchase</b>	<b>C.Y.</b>	<b>Unit Cost</b>	<b>Total Cost</b>
	36,300	? 1.50	? 54,450.00
<b>TOTAL COST (in dollars)</b>			? 87,450.00
<b>UNIT COST (dollars per c.y.)</b>			? 2.41

Barrier – 41,745 c.y. select fill, three lifts compacted to 95% MDD,  $1 \times 10^{-5}$  cm/sec max

<b>Hauling and Placement</b>	<b>Hours</b>	<b>Unit Rate</b>	<b>Total Cost</b>
CAT 225 excavator	? 196	? 65.00	? 10,780
40-yard off-road dump truck	? 196	? 45.00	? 8,920
40-yard off-road dump truck	? 196	? 45.00	? 8,920
D-6 dozer to spread the soil	? 90	? 55.00	? 4,950
CAT 836 compactor	? 100	? 55.00	? 5,500
<b>Soil Purchase</b>	<b>C.Y.</b>	<b>Unit Cost</b>	<b>Total Cost</b>
	41,745	? 1.50	? 62,212.50
<b>TOTAL COST (in dollars)</b>			? 101,082.50
<b>UNIT COST (dollars per c.y.)</b>			? 2.42

Prepared by \_\_\_\_\_



Date 9.10.09