

## Wilson, Donna

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**From:** David Garrett [david@davidgarrettpe.com]  
**Sent:** Friday, November 05, 2010 9:35 AM  
**To:** Wilson, Donna  
**Cc:** Nick Marotta; Dennis Gehle  
**Subject:** Financial Assurance Calculations for WCA  
**Attachments:** financial assurance calculation - durant road transfer station.pdf; financial assurance calculation - raleighview T&P.pdf

Donna, please see the attached calculations you requested for Material Reclamation (Raleighview Road) and North Wake Transfer (Durant Road). Nick Marotta has reviewed these calc's on behalf of WCA and directed me to submit them to you. Please call me or reply if you have any questions.

Thanks, David  
919-418-4375

## **David Garrett & Associates**

*Engineering and Geology*



November 4, 2010

Donna Wilson  
NC DENR Division of Waste Management  
Solid Waste Section  
401 Oberlin Road  
Raleigh, North Carolina, 27611

RE: Financial Assurance Calculation  
WCA North Wake (Durant Road)  
C&D Transfer Station  
Raleigh, North Carolina  
Solid Waste Permit 92-34T

Dear Ms. Wilson,

On behalf of WCA, I am pleased to present the following calculation of anticipated costs for third-party removal of waste and restoring the transfer station site (the Facility). This calculation was prepared in support of a financial assurance bond, as required by the NC DENR Solid Waste Section. The facility was most recently permitted March 12, 2008 with a maximum tonnage of 500 tpd. For other transfer stations, the SWS has recently required the following:

“In the case of Transfer Facilities, closure cost estimates should equal the cost to hire a third party to remove and clean up a week's worth of solid waste material, including any recyclable material, from the facility. The cost estimate must include hauling and disposal of the waste at an approved facility in addition to any other measures necessary to secure the solid waste facilities. If there have been no compliance issues related to environmental contamination there should be no post-closure maintenance at the facility.”

Pursuant to this requirement, I have evaluated costs for third-party loading, hauling, and disposal based on unit costs furnished by WCA for the Material Reclamation T&P Facility (located on Raleighview Road), assuming a maximum waste load of 2,500 tons:

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Item	Units		Unit Cost	2010 Cost
Disposal	2,500	tons	\$21.75	\$54,375
Hauling	125	Loads	\$142.20	\$17,775
Loading	62.5	Hours	\$95.51	\$5,970
Clean-up	Lump Sum			\$1,000
<b>TOTAL FINANCIAL ASSURANCE REQUIRED</b>				<b>\$79,120</b>

- Note 1: Hauling consists of 125 loads of approximately 20 tons each.  
Note 2: At 30 minutes to load 20 tons, loading will take 62.5 hours.  
Note 3: Clean-up is an estimated lump sum

The financial assurance amount will be secured either with a cash deposit, bond, irrevocable letter of credit, trust, or other instrument acceptable to the Solid Waste Section. The cost estimate for the financial instrument must be updated annually. There should be no post-closure monitoring of other requirements associated with the facility.

Please contact me at your earliest convenience if you have questions or comments, or if I may be of further service.



cc: Nick Marotta, WCA Regional Engineer