



August 3, 2009

Permit No.	Date	Document ID No.
53-01	August 4, 2009	8132

Mr. Edward F. Mussler, III, P.E.
Branch Head
NC DENR - Division of Waste Management
Solid Waste Section, Permitting Branch
401 Oberlin Road, Suite 150
Raleigh, NC 27605

RECEIVED
August 4, 2009 via an e-mail
Solid Waste Section
Raleigh Central Office

**RE: Lee County C&D Landfill (Permit No. 53-01)
Closure Certification**

Dear Mr. Mussler:

On behalf of Lee County, Richardson Smith Gardner & Associates, Inc. (RSG) has prepared this letter to document and certify the completion of closure of the County's Construction and Demolition Debris (C&D) Landfill, which is operated by Lee County, under NC Solid Waste Permit No. 53-01.

Construction associated with the final cover was performed by County staff over the past year. Soil for the final cover was obtained from both on-site and off-site borrow sources. As part of the final cover construction, the County also cleaned out and improved perimeter drainage features and installed down pipes where appropriate to route runoff from the flatter top portion of the landfill to the base of the side slopes. Once complete, the County mulched and seeded disturbed areas both on and adjacent to the landfill.

RSG performed periodic site visits to observe the construction progress and to document that a minimum of 2 feet of soil cover was placed over all disposed waste in accordance with Rule 15A NCAC .0505(3)(c). Verification of minimum thickness was done by hand augering 47 test holes across the +/- 7 acre final cover. The location of these test holes are shown on **Figure 1 (attached)**. At each location, the thickness was verified to be at least 24 inches (i.e. actual cover thicknesses in excess of 24 inches were not determined.). Also **attached** are photos showing the closure work as of June 29, 2009, the date of final thickness checks.

In accordance with Rule 15A NCAC .0510(a), this letter also serves as notification that the site is ready for inspection by the Division of Waste Management to determine compliance with the closure procedures. We understand that test holes may be requested by the Division at the time of inspection as a final verification of cover thickness.

Please contact us at your convenience with any questions or comments which you may have on this project.

Mr. Edward Mussler, P.E.
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Sincerely,
Richardson Smith Gardner & Associates, Inc.



Pieter K. Scheer, P.E.
Project Manager
pieter@rsgengineers.com



Attachments: Project Photos
Figure 1 - Closure Verification

cc: Joe Cherry, Lee County
Ming Chao, P.E., DWM
Brad Bailey, DWM



Photo 1 (Southeast Slope Looking NW – 6/29/09)



Photo 2 (Northwest Slope Looking S – 6/29/09)



Photo 3 (Top Area Looking S – 6/29/09)



Photo 4 (Hand Augered Test Hole – 6/29/09)



EXISTING BASELINE AND ELEVATIONS ESTABLISHED BY OTHERS SURVEY BY COLE LAND SURVEYS, P.A. FOR BASELINE INFORMATION

STA. 7+50
N 589534.73
E 1942203.67
"BENCHMARK"
ELEVATION 165.86
(AS WRITTEN ON STAKE)

STA. 1+50
N 590128.23
E 1942117.62

N8° 26' 21.00" W
1621.010'

APPROXIMATE WASTE LIMITS



- LEGEND**
- EXISTING 10' CONTOUR (SEE REFERENCE 1)
 - EXISTING 2' CONTOUR
 - APPROXIMATE WASTE LIMITS
 - PROPOSED 10' CONTOUR
 - PROPOSED 2' CONTOUR
 - TH-1 FINAL COVER TEST LOCATION (MIN. 24 INCHES SOIL COVER)

- NOTES:**
- THE LOCATIONS OF THE FINAL COVER VERIFICATION TEST AREAS ARE APPROXIMATE AND WERE OBTAINED FROM MEASUREMENTS TAKEN IN THE FIELD DURING FINAL COVER VERIFICATION.

- REFERENCES**
- SITE TOPOGRAPHY FROM FIELD SURVEY PERFORMED BY SURVEYING SOLUTIONS, P.C., DATED NOVEMBER 5, 2007.
 - EXISTING SITE BENCHMARKS ARE BASED ON A LOCAL COORDINATE SYSTEM, NOT NC STATE PLANE COORDINATES.



RICHARDSON SMITH GARDNER & ASSOCIATES
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 Raleigh, N.C. 27603
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 fax: 919-228-3899

REVISION	NO.	DATE

PROJECT TITLE:
**LEE COUNTY
C&D LANDFILL**

DRAWING TITLE:
FINAL COVER VERIFICATION

DESIGNED BY: P.K.S.	DRAWN BY: W.R.B.
CHECKED BY:	PROJECT NO.: LEE08-1
SCALE: AS SHOWN	DATE: MAY 2009
FILE NAME: LEE-0004	DRAWING NO.: 1

Chao, Ming-tai

From: Pieter Scheer [pieter@rsgengineers.com]
Sent: Monday, August 03, 2009 5:16 PM
To: Chao, Ming-tai
Cc: Mussler, Ed; Cherry, Joe; Bailey, Bradley
Subject: Lee County C&D Landfill - Closure Certification
Attachments: LC DWM 080309 LET (Closure Certification).pdf

Ming:

Please see the attached certification letter for Lee County. I'll send hard copies as well.

Pieter

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