

# Martin Marietta Materials



P.O. Box 30013  
Raleigh, North Carolina 27622-0013  
Telephone (919) 783-4505  
Facsimile (919) 787-9577

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JUN 26 2012

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

June 25, 2012

Ms. Gabrielle Cooper  
Capacity Use Administration  
NCDENR – Division of Water Resources  
1611 Mail Service Center  
Raleigh, NC 27699-1611

Subject: CCPCUA Permit Renewal and Amendment  
Vanceboro Quarry (Permit No. CU3148)  
Martin Marietta Materials, Inc.

Dear Ms. Cooper:

We would like to request a Permit renewal and amendment for above mentioned site. In this regard listed below are the answers to items IV through XII of the application form:

- IV. Mining Permit #07-57 issued by the NC Division of Land Resources covers Vanceboro Quarry which is a Limestone Quarry.
- V. Not applicable.
- VI.(a) Ernul Quadrangle
- VI.(b) Initially Beaufort County. Longer term as the Mine excavation develops it will include Craven County also, but this is many years into the future.
- VI.(c) Currently the site is undeveloped, please refer to the attached map for more detail.
- VI.(d) The locations of all existing water supply wells within 1,500 feet of the proposed Mine excavation are shown on the map provided. There are no water supply wells within the 1,500 foot boundary. The quarry is located inside a Weyerhaeuser Company owned Pine tree plantation.
- VI.(e) The proposed discharge outfall locations are shown on the attached map.
- VII. Not applicable.
- VIII. Please refer to the studies conducted by our consultant Groundwater Management Associates that have been provided to the Division of Water Resources previously. In addition, I have attached a copy of a letter from Mr. Nat Wilson (DWR) dated 8/24/09 confirming agreement.
- IX. We are working with the NC Division of Water Quality NPDES Permitting Unit to cover the proposed discharges from Vanceboro Quarry. Mine dewatering discharges will flow into receiving waters designated as Blounts Creek.
- X. Not applicable.
- XI. Not applicable.
- XII. Not applicable.

Cont.,

As mentioned earlier please find attached an aerial map showing the location of water supply wells within 1,500 feet of the permitted Mine excavation boundary at Martin Marietta Materials, Inc. – Vanceboro Quarry. In addition, a copy of the USGS topographic map (Ernul Quadrangle) has been included as required.

I trust this satisfies the requirements for the renewal and amendment of the CCPCUA Permit.

If you have any questions please call me at the above mentioned telephone number.

Sincerely,

A handwritten signature in blue ink that reads "Nuwan Wijesuriya". The signature is fluid and cursive, with a long horizontal stroke at the end.

Nuwan Wijesuriya  
Environmental Engineer

**APPLICATION FOR WATER USE PERMIT IN THE  
CENTRAL COASTAL PLAIN CAPACITY USE AREA**

<http://www.ncwater.org>

North Carolina Environmental Management Commission  
Department of Environment and Natural Resources  
Division of Water Resources, 1611 Mail Service Center, Raleigh, NC 27699-1611, phone: 919-707-9000

New Application       Application for Permit Renewal       Permit Amendment       Permit # CU3148

I. Applicant Information:

(a) Applicant: Martin Marietta Materials, Inc. (Vanceboro Quarry)  
(Name of Person, Company, or Corporation)

(b) Mailing Address: P.O. Box 30013      City: Raleigh      State: NC      Zip Code: 27622-0013

(c) Facility Address: Welbourn Road Near Nancy Branch Road      County: Beaufort

(d) Authorized Contact Person: Nurwan Wijesuriya      Environmental Engineer  
(Name)      (Title)      (919) 783-4505  
nuwan.wijesuriya@martinmarietta.com      (Phone Number)  
(Email Address)      (919) 787-9577      (Fax Number)

II. Purpose(s) for which water is to be used (check all that apply):

- (a)  Public Water Supply System (PWSID# \_\_\_\_\_)      (b)  Livestock Supply (c)  Agricultural Irrigation (d)  Aquaculture
- (e)  Mining, describe briefly Water pumped from the pit sump is to be used to wash crushed limestone at the plant and for dust control, with the balance to be discharged...
- (f)  Industrial, describe briefly \_\_\_\_\_
- (g)  Other, describe briefly ...to Blounts Creek

1 If (a) above is checked and applicant is a unit of local government, then applicant must have an adopted Local Water Supply Plan {G.S. 143-355(l) and (m)}.

III. Source(s) of Ground Water – see attached table

Items IV through XII will require more space for completion than provided, please attach additional sheets as necessary.

IV. Document additional mining permit application requirements as listed in 15A NCAC 02E .0502(d)(4) or reference materials submitted under G.S. 74-47. (Refer to cover letter)

V. Document additional Aquifer Storage and Recovery program (ASR) permit application requirements as listed in 15A NCAC 02E .0502(d)(6). (Not applicable)

VI. Locate sources of withdrawal (attach the relevant portion(s) of a United States Geological Survey topographic map and note the following information – you may access topographic maps online at ~~http://gis.ent.state.nc.us/GIS/interface/default.asp~~ or at <http://www.ncwater.org> and follow the CCPCUA link):

- (a) name of quadrangle : Ernul Quadrangle
- (b) county(ies) in which withdrawal sources are located : Refer to map
- (c) labeled positions of all wells and sumps listed in section III. (a) : Refer to map
- (d) locations of all existing water supply wells within 1500 feet of the wells listed in section III. (a) : Refer to map
- (e) locations of all discharge points for water withdrawals covered under this application : Refer to map

VII. Document conservation measures by user type: (Not applicable)

- (a) public water systems refer to 15A NCAC 02E .0502(d)(5)(A)
- (b) other users besides agricultural irrigators refer to 15A NCAC 02E .0502(d)(5)(B)
- (c) agricultural irrigators refer to 15A NCAC 02E .0502(d)(5)(C)



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VIII. **Substantiation for the amount of withdrawal requested:** Submit documentation that justifies the total withdrawal requested. Documentation could include design plans, development plans, planning studies, operation reports, past pumping records, etc. If withdrawals are to be seasonal or vary significantly from month-to-month throughout the year, describe the reasons for the variations and specify those variations. Fill in table below. (Refer to cover letter)

Average Daily Water Use from Previous Calendar Year (gallons per day)												
	January	February	March	April	May	June	July	August	September	October	November	December
Daily Use	Not applicable - The quarry has not dewatered. The quarry is still a greenfield site, and has not been activated yet.											
# of days												

- IX. **Disposal of water:** Describe how the water will be disposed of after it has been used. (Refer to cover letter)
- X. **Document plans to retrofit wells as described in 15A NCAC 02E .0502(j):** Describe the methods and proposed schedule to retrofit wells which currently have pump intakes deeper than the top of the uppermost confined aquifer that yields water to the well. (Not applicable)
- XI. **Document intermittent user status as described in 15A NCAC 02E .0507(13):** (Not applicable)
- (a) persons who withdraw ground water less than 60 days per calendar year; or
  - (b) persons who withdraw less than 15 million gallons of ground water in a calendar year; or
  - (c) aquacultural operations licensed under G.S. 106-761 using ground water for the initial filling of ponds or refilling of ponds no more frequently than every five years.
- XII. **Document Cretaceous Aquifer Reduction requirements:** (Not applicable)
- (a) Identify Cretaceous Aquifer Zone wells and associated percent reduction requirements using the CCPCUA Cretaceous Aquifer Zones map available from the Division of Water Resources {include documentation for wells to be excluded from reduction requirements due to 15A NCAC 02E .0503(8) or 15A NCAC 02E .0503(9)}.
  - (b) Document Aquifer Storage and Recovery program (ASR) total net withdrawals.
  - (c) Approved Base Rate Calculation for Cretaceous Aquifer Zone wells as described in 15A NCAC 02E .0507(1); choose the larger of i., ii. or iii.:
    - i. total calendar year 1997 water use in gallons by well;
    - ii. total August 1, 1999 through July 31, 2000 water use in gallons by well; or
    - iii. an adjusted water use rate calculation based on the larger of i. or ii. and the following:
      - A. documentation of water use reductions made since January 1, 1992;
      - B. actual or estimated water use from wells approved by the Division of Environmental Health by August 1, 2002;
      - C. percent of plant nursery operation using low volume micro-irrigation; or
      - D. documentation of other relevant information
  - (d) Plans for Reduction (use attached worksheet):
    - i. calculate difference between estimated water demand and approved base rate minus Cretaceous Aquifer reductions at year 2008, 2013 and 2018
    - ii. identify new water sources and probable yields

XIII. **Certification:** I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete.

 \_\_\_\_\_ Nuwan Wijesuriya \_\_\_\_\_ Environmental Engineer \_\_\_\_\_ (Official Title) \_\_\_\_\_ 6/25/12 \_\_\_\_\_ (Date)





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8-28-09



North Carolina Department of Environment and Natural Resources  
Division of Water Resources

Beverly Eaves Perdue  
Governor

Thomas A. Reeder  
Director

Dee Freeman  
Secretary

Mr. Horace S. Willson  
Martin Marietta Materials  
Environmental Services  
PO Box 30013  
Raleigh, NC 27622-0013

August 24, 2009

*2nd response to GMA's follow-up report dated 7/17/09*

Subject: GMA letter of July 17, 2009 regarding ground water modeling of the proposed Martin Marietta Aggregates Vanceboro Quarry Site, Beaufort County, North Carolina

Dear Mr. Willson:

The Ground Water Management Section has reviewed the subject GMA letter and modeling results that were prepared in response to our comments and concerns that were outlined in our letter of April 2, 2009. We feel that all of our concerns have been addressed adequately in the response letter, although there are points of minor disagreement. We feel that the modeling results have adequately portrayed the size and extent of the cone of depression that will occur due to the proposed withdrawals from the site. We see no reason why the Capacity Use permitting process should not proceed, and therefore welcome you to apply for a permit from the Ground Water Management Section.

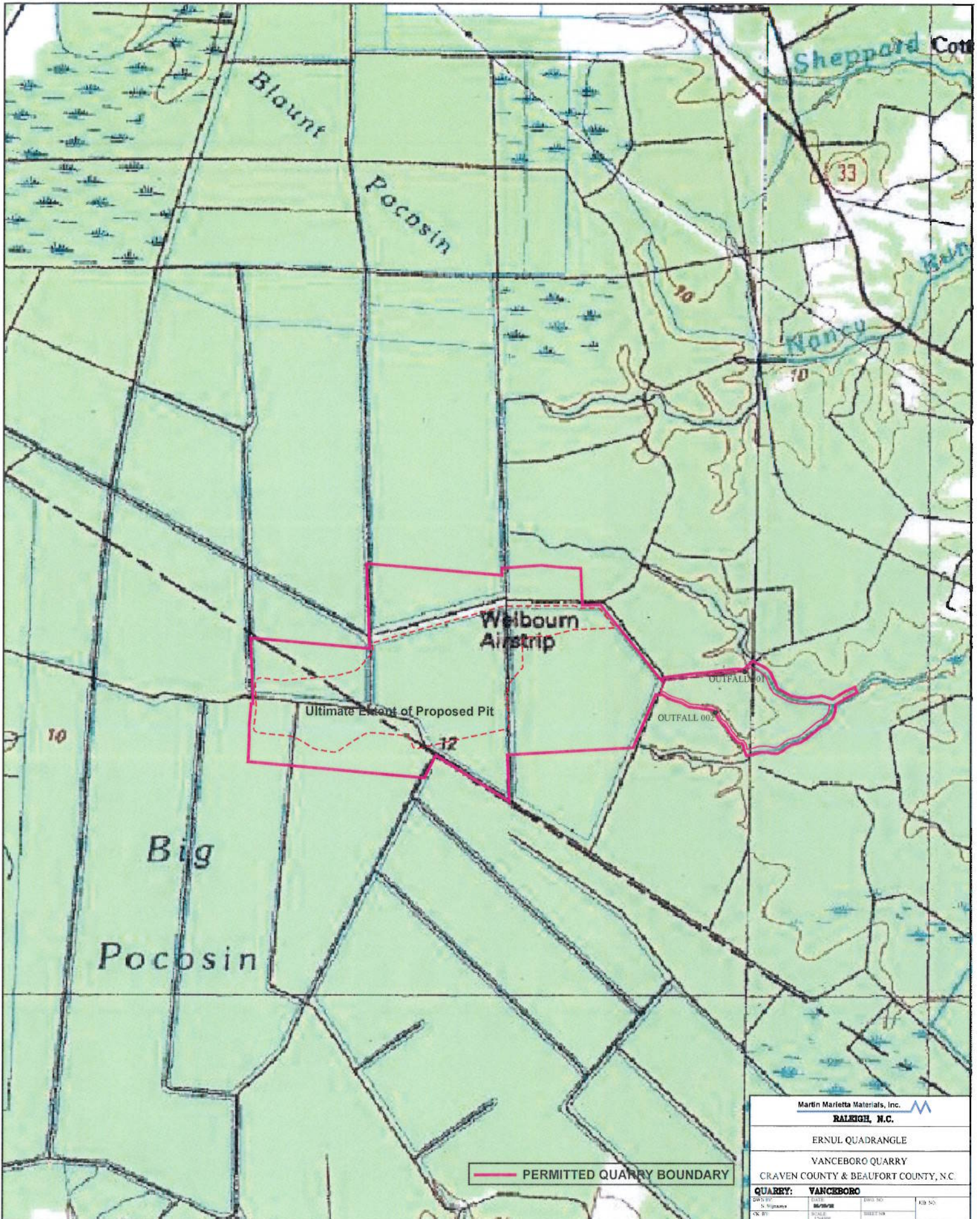
If you have any questions feel free to contact either myself at 919-715-5445 or Jeff Lautier at 919-715-5395.

Sincerely,


Nat Wilson  
Section Chief, Ground Water Management Section

Jeff Lautier  
Senior Hydrogeologist, Ground Water Management Section





— PERMITTED QUARRY BOUNDARY

Martin Marietta Materials, Inc. 			
RALEIGH, N.C.			
ERNUL QUADRANGLE			
VANCEBORO QUARRY			
CRAVEN COUNTY & BEAUFORT COUNTY, N.C.			
<b>QUARRY:</b> VANCEBORO			
DATE:	SCALE:	SHEET NO:	TOT. NO.:
05/11/10	AS SHOWN	1	1
BY: S. Wiggans	SCALE:	SHEET NO:	TOT. NO.:
CK BY:	1:10000	1	1