

September 11, 2006

Mr. Keith Megginson
Chatham County – Planning Department
80-A East Street
Pittsboro, North Carolina 27312

Re: **Water Quality Pond Design**
Briar Chapel – Phase IV
Chatham County, North Carolina
NEW-05042

Dear Mr. Megginson:

The purpose of this letter is to certify that the water quality ponds located within phase IV of the proposed Briar Chapel development were designed to meet the minimum requirements set forth in Section 8.3 (“Stormwater Controls”) of the Chatham County Compact Communities Ordinance (CCO). The following stormwater quantity and quality goals are required per the CCO:

- *Control and treat the first inch of runoff from the project site and from any offsite drainage routed to an on-site control structure. Ensure that the draw down time for this treatment volume is a minimum of forty eight (48) hours and a maximum of one hundred and twenty (120) hours.*
- *Maintain the discharge rate for the treatment volume at or below the pre-development discharge rate for the 1-year, 24-hour storm.*

There are a total of six (6) water quality ponds within phase IV of Briar Chapel that have been submitted and approved by the North Carolina Division of Water Quality (NCDWQ). Each of these water quality ponds has been designed to capture and store the entire volume resulting from a rainfall event that generates 1” of runoff and draw down this volume over a 2 to 5 day period. Stormwater detention has also been provided such that the 1-year, 24-hour post-development peak discharge rate generated by each pond drainage area is captured, detained, and then released from each pond at a discharge rate less than the pre-development peak discharge rate for each pond drainage area. These water quality ponds have also been designed so that prior to exiting the facility, removal of at least 85% of the total suspended solids (TSS) and at least 25% of the total nitrogen from the incoming stormwater runoff is removed.

Please find enclosed copies of the stormwater management plan approval letters received from NCDWQ for phase IV of the proposed Briar Chapel development.

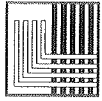
Research Triangle Park, NC
Post Office Box 14005
Research Triangle Park,
North Carolina 27709
2905 Meridian Parkway
Durham, North Carolina 27713
800-733-5646
919-361-5000
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Mr. Keith Megginson
Briar Chapel – Phase IV
September 11, 2006
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If you have any questions or need any additional information, please feel free to contact me at (919) 361-5000.

Sincerely,

THE JOHN R. McADAMS COMPANY, INC.

Jeremy V. Finch, PE
Project Manager
Stormwater and Environmental Department

cc: D. Amos Clark, PE
Jon Moore, PE
Mike Sanchez, PE



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

Michael F. Easley, Governor

William G. Ross, Jr., Secretary
Alan W. Klimek, P.E., Director

August 7, 2006

DWQ Project # EXP 05-0732v2
Chatham County

NNP—Briar Chapel, LLC
Attn: Mr. Mitch Barron, Vice President Newland Communities
5850 Fayetteville Road, Suite 201
Durham, NC 27713

Subject Property: **Briar Chapel Community, Phase I**

APPROVAL OF STORM WATER MANAGEMENT PLAN

Dear Mr. Barron:

The Division of Water Quality (DWQ) has reviewed the Storm Water Management Plan dated July 24, 2006 and subsequent revisions received August 4, 2006 prepared by your engineer, Mr. Jeremy Finch, P.E., of John R. McAdams Company, Inc. This Plan partially satisfies the stormwater conditions required by the Individual Water Quality Certification issued on May 9, 2006. You are required to meet the following conditions:

1. The storm water treatment system, which includes the extended detention pond, preformed scour holes, and forested filter strips, as approved by this Office, and the drainage patterns depicted on the plan sheets, must be maintained *in perpetuity*. No changes to the structural storm water practices shall be made without written authorization from the Division of Water Quality. The storm water easements shall allow for the ability to maintain the structures, perform corrective actions, and shall provide protection of the structures from potential alternations by future property owners.
2. You must submit three (3) copies of an executed Declaration of Covenants and Restrictions—Riparian Areas document within thirty (30) days of recording with the Register of Deeds, Chatham County, North Carolina.
3. You must submit the remainder of the stormwater management plans for Phase I within the next sixty (60) days for approval by DWQ. This final stormwater management plan (including a signed and notarized Operation and Maintenance Agreement) will include plans and specifications for stormwater management facilities that are appropriate for surface waters classified as "Nutrient Sensitive Waters" (NSW). As such, they shall be designed to remove nitrogen and remove at least 85% TSS.
4. The applicant and/or authorized agent shall contact the DWQ Express Review Program in writing at the letterhead address within ten (10) days of the commencement of construction.

AUG 10 2006
NEW-05010
Jeremy Finch, C Karg
J. Moore

August 7, 2006

This letter completes the review of the Division of Water Quality under Section 401 of the Clean Water Act. If you have any questions, please contact Cyndi Karoly at 919.9721 or Cynthia Van Der Wiele, Ph.D. at 919.715.3473.

Sincerely,



Cyndi Bell Karoly, Program Manager
401 Oversight, Express Review Program

CBK/cvdw

cc: USACE Raleigh Regulatory Field Office
DWQ Raleigh Regional Office
File Copy
Central Files
Jeremy Finch, P.E., John R. McAdams Co., Inc., 2905 Meridian Pkwy., Durham, NC 27713



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

Michael F. Easley, Governor

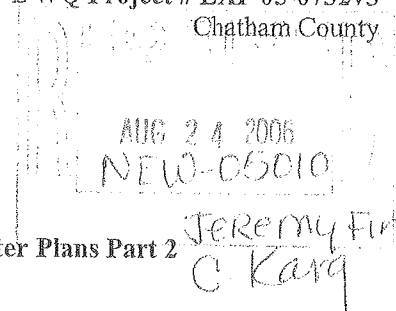
William G. Ross, Jr., Secretary
Alan W. Klimek, P.E., Director

August 21, 2006

DWQ Project # EXP 05-0732v3

Chatham County

NNP—Briar Chapel, LLC
Attn: Mr. Mitch Barron, Vice President Newland Communities
5850 Fayetteville Road, Suite 201
Durham, NC 27713



Subject Property: **Briar Chapel Community Phase I, Stormwater Plans Part 2**

APPROVAL OF STORM WATER MANAGEMENT PLAN

Dear Mr. Barron:

The Division of Water Quality (DWQ) has reviewed the Storm Water Management Plan dated August 16, 2006 prepared by your engineer, Mr. Jeremy Finch, P.E., of John R. McAdams Company, Inc. This Plan has been approved the DWQ and partially satisfies the stormwater conditions required by the Individual Water Quality Certification issued on May 9, 2006. You are required to meet the following conditions:

1. The storm water treatment system, which includes the extended detention pond, preformed scour holes, and forested filter strips, as approved by this Office, and the drainage patterns depicted on the plan sheets, must be maintained *in perpetuity*. No changes to the structural storm water practices shall be made without written authorization from the Division of Water Quality. The storm water easements shall allow for the ability to maintain the structures, perform corrective actions, and shall provide protection of the structures from potential alternations by future property owners.
2. You must submit three (3) copies of an executed Declaration of Covenants and Restrictions—Riparian Areas document within thirty (30) days of recording with the Register of Deeds, Chatham County, North Carolina.
3. You must submit the remainder of the stormwater management plans as clarified by the correspondence from DWQ dated August 11, 2006. You may submit these plans to DWQ in phases provided that no impact to wetlands or streams occurs in a phase until written approval for the stormwater plan is provided by DWQ.
4. The applicant and/or authorized agent shall contact the DWQ Express Review Program in writing at the letterhead address within ten (10) days of the commencement of construction.

August 21, 2006

This letter completes the review of the Division of Water Quality under Section 401 of the Clean Water Act. If you have any questions, please contact Cyndi Karoly at 919.9721 or Cynthia Van Der Wiele, Ph.D. at 919.715.3473.

Sincerely,



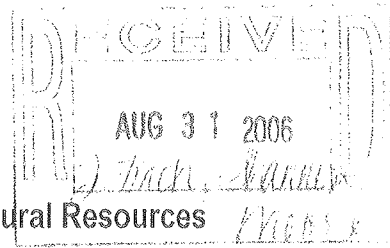
Cyndi Bell Karoly, Program Manager
401 Oversight, Express Review Program

CBK/cvdw

cc: Rick Shiver, DWQ
Todd Tugwell, USACE Raleigh Regulatory Field Office
Eric Kulz, DWQ Raleigh Regional Office
John Holley, DLR Raleigh Regional Office
File Copy
Central Files
Jeremy Finch, P.E., John R. McAdams Co., Inc., 2905 Meridian Pkwy., Durham, NC 27713



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



Michael F. Easley, Governor

William G. Ross, Jr., Secretary
Alan W. Klimek, P.E., Director

August 29, 2006

DWQ Project # EXP 05-0732v4
Chatham County

NNP—Briar Chapel, LLC
Attn: Mr. Mitch Barron, Vice President Newland Communities
5850 Fayetteville Road, Suite 201
Durham, NC 27713

Subject Property: **Briar Chapel Community Phase I, Stormwater Plans Part 3**

APPROVAL OF STORM WATER MANAGEMENT PLAN

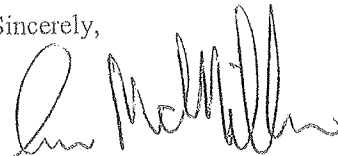
Dear Mr. Barron:


The Division of Water Quality (DWQ) has reviewed the Storm Water Management Plan dated August 28, 2006 prepared by your engineer, Mr. Jeremy Finch, P.E., of John R. McAdams Company, Inc. This Plan has been approved the DWQ and partially satisfies the stormwater conditions required by the Individual Water Quality Certification issued on May 9, 2006. You are required to meet the following conditions:

1. The storm water treatment system, which includes the extended detention pond, preformed scour holes, and forested filter strips, as approved by this Office, and the drainage patterns depicted on the plan sheets, must be maintained *in perpetuity*. No changes to the structural storm water practices shall be made without written authorization from the Division of Water Quality. The storm water easements shall allow for the ability to maintain the structures, perform corrective actions, and shall provide protection of the structures from potential alternations by future property owners.
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3. You must submit the remainder of the stormwater management plans as clarified by the correspondence from DWQ dated August 11, 2006. You may submit these plans to DWQ in phases provided that no impact to wetlands or streams occurs in a phase until written approval for the stormwater plan is provided by DWQ.
4. The applicant and/or authorized agent shall contact the DWQ Express Review Program in writing at the letterhead address within ten (10) days of the commencement of construction.

This letter completes the review of the Division of Water Quality under Section 401 of the Clean Water Act. If you have any questions, please contact Cyndi Karoly at 919.9721 or Cynthia Van Der Wiele, Ph.D. at 919.715.3473.

Sincerely,



 Cyndi Bell Karoly, Program Manager
401 Oversight, Express Review Program

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