

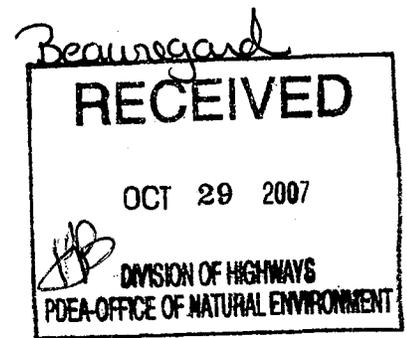


DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS

P.O. BOX 1890
WILMINGTON, NORTH CAROLINA 28402-1890

IN REPLY REFER TO

October 23, 2007



Regulatory Division

Action ID: 200520314

Dr. Gregory Thorpe
Planning and Environmental Branch
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, NC 27699-1548

Dear Dr. Thorpe:

Reference the Department of the Army (DA) permit issued on May 10, 2006, which authorized the placement of fill material into 1212 linear feet of stream channel in the jurisdictional waters of the Yadkin Pee-Dee River basin for the construction of the NC 67 widening and improvements. The location of the project site is from the intersection of NC 601 west to SR 1355, west of Booneville, in Yadkin County, North Carolina and is identified as TIP No. R-3415.

Reference is also made to two letters from Mr. Heath Slaughter (NCDOT, Division 11, Environmental Officer) dated May 31, and June 12, 2007, requesting modification of selected impact areas and the required mitigation addressed within your DA permit. You have requested a total reduction in impacts of 51 linear feet of stream channel due to scaling errors resulting in improper culvert lengths at 9 crossings. The station number and actual length of each crossing are represented on Attachment 1.

Stream bank stabilization and floodplain bench construction methods have been proposed to offset minor stream impacts due to culvert extensions. This activity is considered above and beyond the required effort as stated within the permit conditions, and could be considered as offsetting the stream impacts. In addition, 4 streams were originally permitted for relocation and reported as an impact. Further investigation has found the potential for these streams to be relocated using natural channel design, therefore, removing any required mitigation from the relocation activity. Relocation plans, attached to your June 12 letter detailed the proposed activity.

We have completed our evaluation of your request and concur with your request for a change in impacts and mitigation associated with your referenced DA permit. Please note that "*Special Condition, S - Mitigation*" of your permit is modified to read:

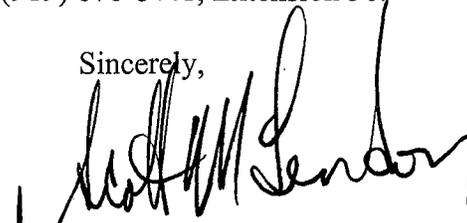
The unavoidable impacts to stream channels resulting in the permanent loss of 1,162 linear feet of stream channel associated with this project shall be mitigated by NCDOT by providing 100 linear feet of restoration equivalent cool water streams and 289 linear feet of warm water streams in the Yadkin Pee-Dee River basin (Hydrologic Cataloging Unit 03040101). Based on your application, you intend to utilize the Ecosystem Enhancement Program (EEP) as recommended in our letter dated September 1, 2004 from Mr. Ken Jolly to Dr. Gregory J. Thorpe.

In addition, 772 linear feet of on-site mitigation will be accomplished via stream relocation utilizing natural channel design and enhancement/restoration at near the culvert inlets and/or outlets. All on-site mitigation activities will take place prior to, or in conjunction with, the associated impacts. These activities will be constructed in accordance with the design submitted in the May 31 and June 12, 2007, modification documentation. Native buffer plantings will be accomplished per the Type I Streambank Reforestation proposal shown in the June 12, 2007 modification plan.

As proposed in the modification application, a 3-year monitoring plan shall be implemented to ensure success of the buffer plantings and stabilization of the stream. If unstable stream conditions are documented at any time during the three year monitoring period, the NCDOT will notify the Corps and implement any required activities to correct the problem. The Corps may determine that an extension of the monitoring period is warranted to properly monitor previously unstable areas.

It is understood that all other conditions of the permit, including the permit expiration date, remain applicable. Should you have questions, contact Mr. Monte Matthews, Raleigh Regulatory Field Office at telephone (919) 876-8441, Extension 30.

Sincerely,



John E. Pulliam, Jr.
Colonel, U.S. Army
District Commander

Attachment

Copies Furnished(with attachment):

Mr. Heath Slaughter
NCDOT, Division 11
PO Box 250
North Wilkesboro, North Carolina 28659

North Carolina Department of
Environmental and Natural Resources
Attn: Sue Homewood
585 Waughtown Street
Winston-Salem, NC 27107

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JUN 04 2007

RALEIGH REGULATORY FIELD OFFICE

R3415- Summary of Culvert Extension Lengths in Plan vs. Permitted Extension Lengths

Site #	Station	Sheet	Structure/Description	Notes:	Plan Extension Lengths	Permitted Extension Lengths	+/- From Permit
1	79+43	9	Extend 3 @ 9'x15' RCBC	L-O-11'-5" 0.5% - 0.7" 90D	23'-11"	32'	- 8'
C1				R-I-12'-6" 0.5% - 0.75" 2' sill on E Barrel			
2	119+06	12	Extend 3 @ 8'x12' RCBC	L-O-10'-11" 0.9% - 1.18" - 1' drop 90D	21'-4"	28'	- 7'
C2				R-I-10'-5" 0.9% - 1.13" - 2' sill on E Barrel			
3	141+90	13	Extend 2 @ 8'x8' RCBC	L-I-11'-6" 0.39% - 0.5" - 1' sill on E Barrel	20'-10" (43') **	46'	- 3'
C3				R-O-9'-4" -0.39% - 0.44" - 1'-6" drop			
4	153+48	14	Retain, collar and extend 4'x5' RCBC with 60" RCP	L-O-28' (5'-8"JB) - Angle E 118D R-I-32' (1'-6"C) - Angle E	60' (64') *	60'	+ 4'
5	171+37	15	Extend 6'x5' RCBC	L-O-17'-2" 2.5% - 5.1" 90D	35'-10"	38'	- 2'
C4				R-I-18'-8" 1.3% - 2.9" 6' Str/12'-8" 30D to E			
7	222+43	19	Retain and extend 4'x5' RCBC with 60" RCP	L-I- 20' - 90D to Rd (5'-8"JB) R-O-20' - Str Ext. - (5'-8" JB)	40' (44') *	48'	- 4'
8	225+52	19	Retain and extend 4'x4' RCBC with 54" RCP	L-I-16' - Skew to W (1'-6"C) R-O- 20' - Str. Ext. (1'-6"C)	36'	49'	- 13'
9	233+96	20	Retain and extend 4'x4' RCBC with 54" RCP	L-I-40' - Skew to E R-O-28' - Str Ext.	68'	98'	- 30'
10	246+75	21	Retain and extend 3'x4' RCBC with 48" RCP	L-I-48' - Skew to E R-O-40' - Skew to W	88' (92') *	80'	+ 12'
Revised Totals					428'	479'	- 51'

Notes:

* 3 Junction Boxes with inside dimensions of 3'8" (use 4')

** Outlet end has an additional 22' of concrete apron between the wing walls

Stream Relocations

Site #	Station	Sheet	Structure/Description	Notes:	Onsite Reconstructed Length	Permitted Impact Length	Final Perm. Impact
1	81+00 Rt.	9	Stream Relocation - 325'	No net loss	325'	325'	0
3	141+50 Lt.	13	Stream Relocation - 74'	No net loss	74'	74'	0
	143+00 Lt.	13	Stream Relocation - 208'	<i>Relocated section will be 3' longer</i>	211'	208'	-3'
6	209+25 Rt.	18	Stream Relocation - 126'	Relocating 77' and Eliminating 49'	77'	126'	49'
Revised Totals					687'	733'	46'