Monitoring Data Record

Project Title: U-2524AB Site 28 COE Action ID: 200321137

Stream Name: UT to Hickory Creek DWQ Number: 030909
City, County and other Location Information: Greensboro Western Loop, Guilford Co.
Sta. 29+00 to 32+00 – 40 SB REV-
Date Construction Completed: Water was turned into the stream on July 2005 and planted February 2006. Monitoring Year: (1) of 5
Ecoregion: 8 digit HUC unit 03030002
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 935' Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green, B. Johnson, B. Poole Date: 7/26/06
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Road Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us

Consultant Information:
Name:
Address:
Telephone Number: Email address:

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1 ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*
Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 9 reference points, 2 photos at each
Dates reference photos have been taken at this site: 7/26/06

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: The stream is highly vegetated for the 1st year of monitoring. Hardwood vegetation noted onsite includes: green ash, tulip poplar, river birch, black willow, silky dogwood, and sycamore. Other vegetation onsite included: *Juncus* sp., sedge, *Sagittaria* sp., *Scirpus* sp., goldenrod, and various grasses. The floodplain adjacent to Ramp C will be planted this fall after the silt fence is removed.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The channel is stable throughout the entire onsite stream relocation project, except for a few minor issues. The stream has headcut and eroded around a crossvane at approx. Sta. 30+00 –40 SB REV- (Photo Point #6 Downstream). At approx. Sta. 29+60 -40 SB REV- water is piping under ground and bypassing a bend in the stream (Photo Point #8 Upstream). NCDOT has met onsite to correct these issues. A bankfull event has recently occurred onsite.

Date Inspected	Sta. 30+00 – 40SBREV-	Sta. 29+60 – 40SBREV-	Station Number	Station Number	Station Number
Structure Type	Crossvane				
Is water piping through or around structure?		Water is piping under ground bypassing a bend			
Head cut or down cut present?	Headcut				
Bank or scour erosion present?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

UT Hickory Creek

Site 28

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

Photo Point #3 (Downstream)

Year 1 Summer – July 2006

UT Hickory Creek

Site 28

Photo Point #4 (Upstream)

Photo Point #4 (Downstream)

Photo Point #5 (Upstream)

Photo Point #5 (Downstream)

Photo Point #6 (Upstream)

Photo Point #6 (Downstream)

Year 1 Summer – July 2006

UT Hickory Creek

Site 28

Photo Point #7 (Upstream)

Photo Point #7 (Downstream)

Photo Point #8 (Upstream)

Photo Point #8 (Downstream)

Photo Point #9 (Upstream)

Photo Point #9 (Downstream)