Monitoring Data Record

Project Title: I-540 Northern Wake Expressway (R-2000AB) COE Action ID: 200021863
Stream Name: UT to Kit Creek DWQ Number: 030918
City, County and other Location Information: Wake County, Site 6 (Sta.10+41 to 12+76_YRPA-)
Date Construction Completed: March 2005 Monitoring Year: (3) of 5
Ecoregion:_____ 8 digit HUC unit 03030002
USGS Quad Name and Coordinates: _____
Rosgen Classification: _____
Length of Project: 1,299' Urban or Rural: Rural Watershed Size: _____
Monitoring DATA collected by: M. Green and J. Young Date: 6/11/08
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:
5 photo point locations, 2 photos taken at each location
Dates reference photos have been taken at this site: 9/12/06, 3/14/07, 8/9/07, 1/14/08, 6/11/08

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

Other Information relative to site photo reference: A site map is included with this report showing the photo point locations.

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):
There is evidence of beaver activity between photo point #1 and photo point #2.

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Vegetation noted onsite at the stream relocation at permitted Site 6 includes green ash, golden rod, black willow, sycamore, tulip poplar, tag alder, sweetgum, ragweed, woolgrass, cattails, fennel, *Juncus* sp., lespedeza, and various grasses.

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 stream is stabilized for the Year 3 Summer evaluation. There is evidence that a bankfull event has occurred since the last monitoring evaluation. There is also water piping under the crossvane at Sta. 2+00-stream1- as seen from photo point #4 (downstream). NCDOT will continue to monitor this stream relocation.

6/11/08	Station 2+00 -Stream 1-	Station Number	Station Number	Station Number	Station Number
Structure Type	Crossvane				
Is water piping through or around structure?	Water is piping under crossvane				
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

UT Kit Creek

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

Photo Point #3 (Downstream)

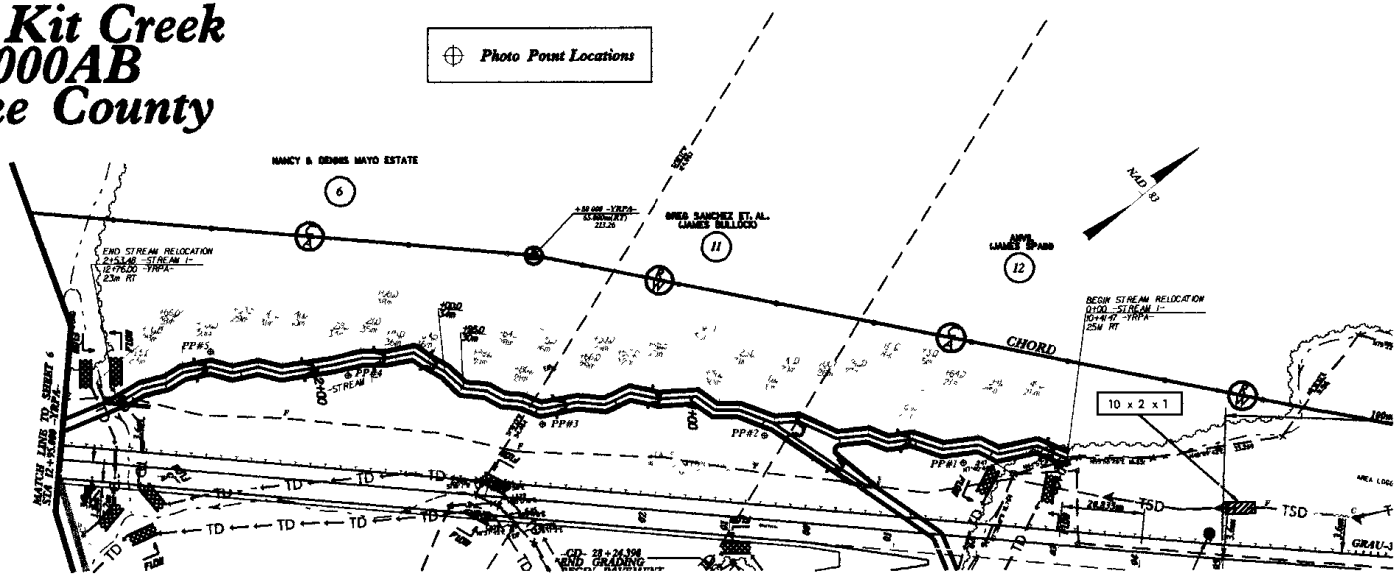
Year 3 Summer – June 2008

UT Kit Creek

Photo Point #4 (Upstream)

Photo Point #4 (Downstream)

Photo Point #5 (Upstream)

Photo Point #5 (Downstream)

UT Kit Creek
R-2000AB
Wake County