

Monitoring Data Record

Project Title: R-2248D – Charlotte Outer Loop COE Action ID: 200131321
 Stream Name: Trib. to Dixon Branch (Site 24) DWQ Number: 011231
 City, County and other Location Information: Mecklenburg County, Charlotte Outer Loop, R-2248D Sta. 378+15 to 379+40 –L- Left and Sta.380+16 to 381+23 –L- Left
 Date Construction Completed: February 2005 Monitoring Year: (4) of 5
 Ecoregion: 8 digit HUC unit 03050103
 USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 1020 ft. Urban or Rural: Urban Watershed Size: _____
 Monitoring DATA collected by: M. Green and J. Young Date: 9/20/12

Applicant Information:

Name: NCDOT – Roadside Environmental Unit
 Address: 1425 Rock Quarry Rd, Raleigh, NC 27610
 Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov

Consultant Information:

Name: _____
 Address: _____
 Telephone Number: _____ Email address: _____

Project Status: _____

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1

The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period or through two documented bankfull flow events: Reference photos; plant survival (i.e. identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action); visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall submit the monitoring reports to the USACE, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee 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 five-year monitoring period, the USACE, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 12 photos were taken from 6 photo point locations

Dates reference photos have been taken at this site: 2/23/09, 9/1/09, 3/16/10, 9/28/10, 3/2/11, 9/12/11, 1/25/12, 9/20/12

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

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

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: NCDOT replanted Type II plantings (sycamore, river birch, yellow poplar, and willow oak bareroot seedlings) throughout Site 24 and installed live stakes (black willow and silky dogwood) where missing or dead live stakes were found on March 2, 2011. A supplemental planting of the right and left buffer between PP#3 and the pipe took place on 1/25/12 due to mowing encroachments. Planted vegetation noted included silky dogwood, black willow, willow oak, blackgum, sycamore, river birch, and yellow poplar. Other vegetation noted included briars, cattail, winged elm, sweetgum, lespedeza, wax myrtle, pine, woolgrass, soft rush, 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.

UT to Dixon Branch (Site 24) stream relocation is stable for the Year 4 Summer evaluation, except for, a log sill at Sta. 380+40 that has water piping under this structure. The right bank at this log sill has eroded. Repairs to this log sill are scheduled for Fall 2012. A bankfull event has occurred since the last monitoring evaluation. NCDOT will continue to monitor the channel stability.

Date 9/20/12	Station 380+40-L- (additional photo)	Station Number	Station Number	Station Number	Station Number
Structure Type	Log Sill #1				
Is water piping through or around structure?	Water was piping under log sill				
Head cut or down cut present?					
Bank or scour erosion present?	Bank erosion on right bank				
Other problems noted?					

Section 4. DEBIT LEDGER

The entire UT to Dixon Branch (Site 24) stream mitigation site was used for the R-2248D project to compensate for unavoidable stream impacts.

UT to Dixon Branch

Site 24



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)
Year 4 Summer – September 2012



Photo Point #3 (Downstream)

UT to Dixon Branch

Site 24



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)
Year 4 Summer – September 2012



Photo Point #6 (Downstream)

UT to Dixon Branch

Site 24



Water piping under Log Sill #1 and right bank is eroded at Sta. 380+40-L-



Overview photo of PP#1 to PP#3 area



Overview photo of PP#4 to PP#6 area

Year 4 Summer – September 2012



