

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: (3) 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 Date: 3/2/11

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

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):

The planted vegetation is minimal from Sta. 380+16 to 381+23 for both Type I and II plantings and from Sta. 378+15 to 379+40 about 60% of the live stakes (Type I) are surviving but the buffer (Type II) planting is minimal.

Estimated causes, and proposed/required remedial action: 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. The replanting of the Type II section took place on March 2, 2011.

ADDITIONAL COMMENTS: NCDOT will continue to monitor planted vegetation for survival.

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 3 Winter evaluation, except for, water piping under a log sill at Sta. 380+40. Some minor bank erosion around some of the rootwads still exist from Sta. 378+15 to 379+40. Repair work to the stream was completed in May 2010. NCDOT will continue to monitor the channel stability.

Date 3/2/11	Station 378+15 to 379+40	Station 380+40	Station Number	Station Number	Station Number
Structure Type		Log Sill			
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 around rootwads				
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 3 Winter – March 2011



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 3 Winter – March 2011



Photo Point #6 (Downstream)



