

Monitoring Data Record

Project Title: R-2552B Clayton Bypass COE Action ID: 200220745

Stream Name: Site 5 DWQ Number: 041760

City, County and other Location Information: US 70 Clayton Bypass from I-40 to US 70 Station 82+60 to 85+50 -L-

Date Construction Completed: 4/21/06

Monitoring Year: (3) of 5

Ecoregion: _____ 8 digit HUC unit 03020201

USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 410' Urban or Rural: Rural Watershed Size: _____

Monitoring DATA collected by: M. Green and J. Young Date: 1/29/09

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: (200220745) 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.

(041760) Riparian vegetation reestablishment shall include a minimum of at least 2 native hardwood tree species planted at a density sufficient to provide 320 trees per acre at maturity. In addition, within one year proof shall be submitted that the riparian buffer has been restored and an annual report will be submitted for a period of 5 years showing that the trees and vegetation have survived and that the diffuse flow through the riparian buffer has been maintained. Failure to achieve the 320 trees per acre after 5 years will require reporting by DOT to DWQ. The report shall provide appropriate remedial actions to be implemented. Approval of the plan by the DWQ is required.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site:

A total of 8 photos were taken from 4 photo point locations.

Dates reference photos have been taken at this site: 3/14/07, 7/16/07, 3/17/08, 6/19/08, 1/29/09

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):

It was noted last monitoring evaluation that some planted vegetation was lacking where equipment was used to make some repairs along the streambank. The buffer planting is lacking planted vegetation as well.

Estimated causes, and proposed/required remedial action: Due to the repairs along the streambank and lack of surviving vegetation in the buffer some additional live staking of black willow and planting of river birch and sycamore was completed on 3/11/09.

ADDITIONAL COMMENTS: Planted vegetation will be re-evaluated during the summer monitoring evaluation for plant 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.

The stream relocation is stabilized for the Year 3 Winter evaluation. NCDOT will continue to monitor channel stability at this stream relocation.

Date	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

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.

R-2552B Clayton Bypass



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

R-2552B Clayton Bypass





Photo Point #4 (Upstream)



Photo Point #4 (Downstream)

Year 3 Winter – February 2009

	PROJECT REFERENCE NO.	2552B
	DATE	12/1/83
	CITY	ST. LOUIS
COUNTY	ST. LOUIS	
DATE	12/1/83	

CLAYTON BYPASS STREAM RELOCATION R-2552B (SITE 5)

