Channel Mitigation Monitoring Sheets I, II, III, AND IV

Monitoring Data Record

Project Title: US 70 in Salisbury (R-2911E) COE Action ID: 200221536
Stream Name: Setman Branch DWQ Number: 030908
City, County and other Location Information: Salisbury, Rowan Co., Sta. 8+35 to Sta. 8+85
Date Construction Completed: Water was turned and streambank reforestation was completed in March 2006. Monitoring Year: (3) of 5
Ecoregion: 8 digit HUC unit 03040102
USGS Quad Name and Coordinates:
Rosgen Classification: Proposed Reach is a E5 stream type
Length of Project: 180.4' Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 2/17/09
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: 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: 3 photo point locations

Dates reference photos have been taken at this site: 1/30/07, 9/4/07, 1/23/08, 9/4/08, 2/17/09

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

Other Information relative to site photo reference: A site map with the photo point locations is included with 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 adjacent property owner continued to mow the buffer area after the first replanting took place 1/23/08.

Estimated causes, and proposed/required remedial action: NCDOT installed control access fence and the buffer area was replanted for the second time on 2/17/09.

ADDITIONAL COMMENTS: Vegetation noted onsite consisted of black willow, silky dogwood, tulip poplar, willow oak, blackgum, lespedeza, fennel, *Sagittaria* sp., red maple, sweetgum, cattail, cut grass, jewelweed, goldenrod, sedge, *Juncus* sp., tear-thumb, and various grasses. On 2/17/09 buffer area on right side of stream relocation was replanted .

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.

This is the Year 3 Winter monitoring evaluation. The streambanks are stable throughout the entire site. A bankfull event has occurred since the last monitoring evaluation. NCDOT will continue to monitor this onsite stream relocation.

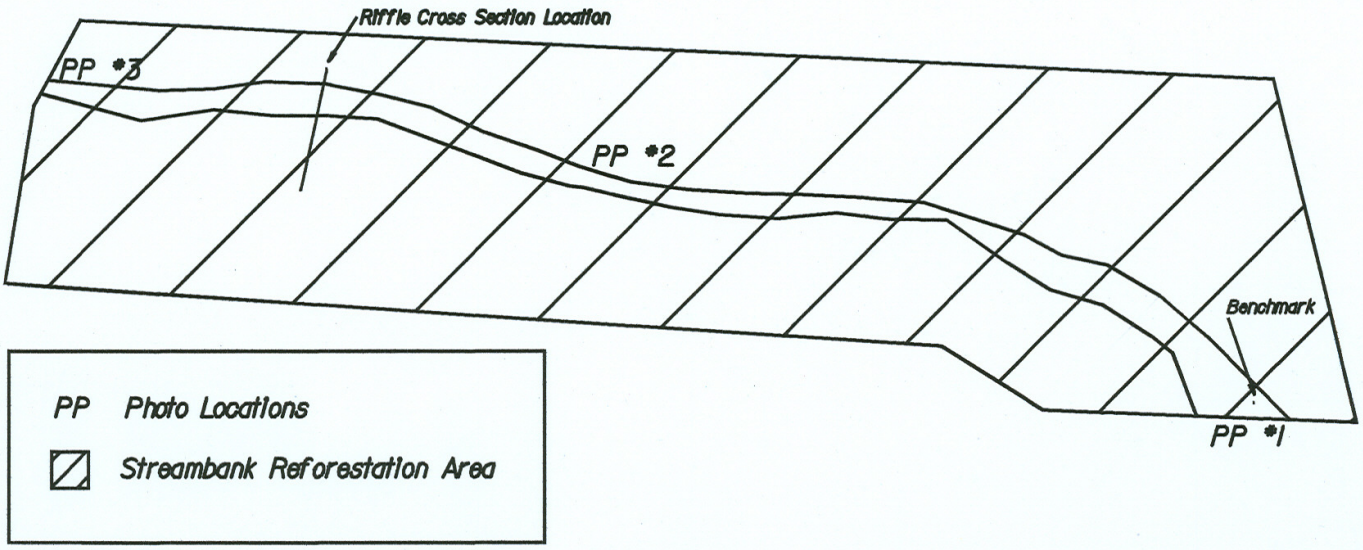
Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					

Setman Branch

PP#1 (Looking downstream from box culvert)

PP#2 (Upstream)

PP#2 (Downstream)

PP#3 (Looking upstream from driveway pipe)

Setman Branch
R-2911E
Rowan County