

North Carolina Division of Water Quality – Stream Identification Form; Version 3.1

Date: 10/1/07	Project: Pennington South	Latitude: 35.7350688
Evaluator: Jennifer Burdette	Site: Ch S side main trib	Longitude: 79.0636102
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	11.5	County: (#109) Chatham
		Other e.g. Quad Name: Merry Oaks, NC

A. Geomorphology (Subtotal = 6)

	Absent	Weak	Moderate	Strong
1 ^a . Continuous bed and bank	0	①	2	3
2. Sinuosity	0	1	← ②	3
3. In-channel structure: riffle-pool sequence	①	1	2	3
4. Soil texture or stream substrate sorting	①	1	2	3
5. Active/relic floodplain	0	①	2	3
6. Depositional bars or benches	①	1	2	3
7. Braided channel	①	1	2	3
8. Recent alluvial deposits	①	1	2	3
9 ^a Natural levees	①	1	2	3
10. Headcuts	0	← ①	2	3
11. Grade controls	0	① 0.5	1	1.5
12. Natural valley or drainageway	0	① 0.5	1	1.5
13. Second or greater order channel on existing USGS or NRCS map or other documented evidence.	No = ①		Yes = 3	

^a Man-made ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 3)

14. Groundwater flow/discharge	①	1	2	3
15. Water in channel and > 48 hrs since rain, <u>or</u> Water in channel -- dry or growing season	①	1	2	3
16. Leaf litter	1.5	1	① 0.5 →	0
17. Sediment on plants or debris	①	0.5	1	1.5
18. Organic debris lines or piles (Wrack lines)	0	0.5	①	1.5
19. Hydric soils (redoximorphic features) present?	No = 0		Yes = ① 1.5	

C. Biology (Subtotal = 2.5)

20 ^b . Fibrous roots in channel	3	2	①	0
21 ^b . Rooted plants in channel	3	2	①	0
22. Crayfish	①	0.5	1	1.5
23. Bivalves	①	1	2	3
24. Fish	①	0.5	1	1.5
25. Amphibians	①	0.5	1	1.5
26. Macroinvertebrates (note diversity and abundance)	①	0.5	1	1.5
27. Filamentous algae; periphyton	①	1	2	3
28. Iron oxidizing bacteria/fungus.	①	① 0.5	1	1.5
29 ^b . Wetland plants in streambed	FAC = 0.5; FACW = 0.75; OBL = 1.5 SAV = 2.0; Other = 0			

^b Items 20 and 21 focus on the presence of upland plants, Item 29 focuses on the presence of aquatic or wetland plants.

Notes: (use back side of this form for additional notes.)

Sketch:

Ephemeral channel / linear wetland

North Carolina Division of Water Quality – Stream Identification Form; Version 3.1

Date: 10/1/07	Project: Pennington South	Latitude: 35.7367567
Evaluator: Jennifer Burdette	Site: Ch N side main trib	Longitude: 79.0634839
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	13.5	County: Chatham (#112) Other e.g. Quad Name: Merry Oaks, NC

A. Geomorphology (Subtotal = 8)

	Absent	Weak	Moderate	Strong
1 ^a . Continuous bed and bank	0	1	2	3
2. Sinuosity	0	1	2	3
3. In-channel structure: riffle-pool sequence	0	1	2	3
4. Soil texture or stream substrate sorting	0	1	2	3
5. Active/relic floodplain	0	1	2	3
6. Depositional bars or benches	0	1	2	3
7. Braided channel	0	1	2	3
8. Recent alluvial deposits	0	1	2	3
9 ^a Natural levees	0	1	2	3
10. Headcuts	0	1	2	3
11. Grade controls	0	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	1.5
13. Second or greater order channel on existing USGS or NRCS map or other documented evidence.	No = 0		Yes = 3	

^a Man-made ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 3)

14. Groundwater flow/discharge	0	1	2	3
15. Water in channel and > 48 hrs since rain, or Water in channel -- dry or growing season	0	1	2	3
16. Leaf litter	1.5	1	0.5	0
17. Sediment on plants or debris	0	0.5	1	1.5
18. Organic debris lines or piles (Wrack lines)	0	0.5	1	1.5
19. Hydric soils (redoximorphic features) present?	No = 0		Yes = 1.5	

C. Biology (Subtotal = 2.5)

20 ^b . Fibrous roots in channel	3	2	1	0
21 ^b . Rooted plants in channel	3	2	1	0
22. Crayfish	0	0.5	1	1.5
23. Bivalves	0	1	2	3
24. Fish	0	0.5	1	1.5
25. Amphibians	0	0.5	1	1.5
26. Macroinvertebrates (note diversity and abundance)	0	0.5	1	1.5
27. Filamentous algae; periphyton	0	1	2	3
28. Iron oxidizing bacteria/fungus.	0	0.5	1	1.5
29 ^b . Wetland plants in streambed	FAC = 0.5, FACW = 0.75; OBL = 1.5 SAV = 2.0; Other = 0			

^b Items 20 and 21 focus on the presence of upland plants, Item 29 focuses on the presence of aquatic or wetland plants.

Notes: (use back side of this form for additional notes.)

Sketch:

Ephemeral channel/linear wetland

North Carolina Division of Water Quality – Stream Identification Form; Version 3.1

Date: 10/1/07	Project: Pennington South	Latitude: 35.7379282°N
Evaluator: Jennifer Burdette	Site: NW corner Ch (#105)	Longitude: 79.0686618°W
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	10.5	County: Chatham
		Other e.g. Quad Name: Merry Oaks, NC

A. Geomorphology (Subtotal = 5)

	Absent	Weak	Moderate	Strong
1 ^a . Continuous bed and bank	0	1	2	3
2. Sinuosity	0	1	2	3
3. In-channel structure: riffle-pool sequence	0	1	2	3
4. Soil texture or stream substrate sorting	0	1	2	3
5. Active/relic floodplain	0	1	2	3
6. Depositional bars or benches	0	1	2	3
7. Braided channel	0	1	2	3
8. Recent alluvial deposits	0	1	2	3
9 ^a Natural levees	0	1	2	3
10. Headcuts	0	1	2	3
11. Grade controls	0	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	1.5
13. Second or greater order channel on existing USGS or NRCS map or other documented evidence.	No = 0		Yes = 3	

^a Man-made ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 4)

14. Groundwater flow/discharge	0	1	2	3
15. Water in channel and > 48 hrs since rain, <u>or</u> Water in channel -- dry or growing season	0	1	2	3
16. Leaf litter	1.5	1	0.5	0
17. Sediment on plants or debris	0	0.5	1	1.5
18. Organic debris lines or piles (Wrack lines)	0	0.5	1	1.5
19. Hydric soils (redoximorphic features) present?	No = 0		Yes = 1.5	

C. Biology (Subtotal = 1.5)

20 ^b . Fibrous roots in channel	3	2	1	0
21 ^b . Rooted plants in channel	3	2	1	0
22. Crayfish	0	0.5	1	1.5
23. Bivalves	0	1	2	3
24. Fish	0	0.5	1	1.5
25. Amphibians	0	0.5	1	1.5
26. Macroinvertebrates (note diversity and abundance)	0	0.5	1	1.5
27. Filamentous algae; periphyton	0	1	2	3
28. Iron oxidizing bacteria/fungus.	0	0.5	1	1.5
29 ^b . Wetland plants in streambed	FAC = 0.5; FACW = 0.75; OBL = 1.5 SAV = 2.0; Other = 0			

^b Items 20 and 21 focus on the presence of upland plants, Item 29 focuses on the presence of aquatic or wetland plants.

Notes: (use back side of this form for additional notes.)

Sketch:

Ephemeral / linear wetland channel