

**NC Division of Water Quality –Methodology for Identification of Intermittent and
Perennial Streams and Their Origins v. 4.11**

NC DWQ Stream Identification Form Version 4.11

Stream SB

Date: <i>10/8/13</i>	Project/Site: <i>B670077</i>	Latitude: <i>35.998995</i>
Evaluator: <i>J. Mason, A. James, J. D. Idam, P.</i>	County: <i>Orange</i>	Longitude: <i>-79.121982</i>
Total Points: <i>Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*</i> <i>R. Hefey</i> <i>19.5</i>	Stream Determination (circle one) Ephemeral <u>Intermittent</u> Perennial	Other e.g. Quad Name:

A. Geomorphology (Subtotal = <i>7.0</i>)	Absent	Weak	Moderate	Strong
1 ^a . Continuity of channel bed and bank	0	1	2	<u>3</u>
2. Sinuosity of channel along thalweg	0	<u>1</u>	2	3
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	<u>1</u>	2	3
4. Particle size of stream substrate	<u>0</u>	1	2	3
5. Active/relict floodplain	0	<u>1</u>	2	3
6. Depositional bars or benches	<u>0</u>	1	2	3
7. Recent alluvial deposits	<u>0</u>	1	2	3
8. Headcuts	<u>0</u>	1	2	3
9. Grade control	<u>0</u>	0.5	1	1.5
10. Natural valley	0	0.5	<u>1</u>	1.5
11. Second or greater order channel	<u>No = 0</u>		<u>Yes = 3</u>	

^a artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = <i>6.0</i>)	Absent	Weak	Moderate	Strong
12. Presence of Baseflow	0	1	<u>2</u>	3
13. Iron oxidizing bacteria	<u>0</u>	1	2	3
14. Leaf litter	1.5	1	<u>0.5</u>	0
15. Sediment on plants or debris	0	<u>0.5</u>	1	1.5
16. Organic debris lines or piles	<u>0</u>	0.5	1	1.5
17. Soil-based evidence of high water table?	<u>No = 0</u>		<u>Yes = 3</u>	

C. Biology (Subtotal = <i>6.5</i>)	Absent	Weak	Moderate	Strong
18. Fibrous roots in streambed	3	<u>2</u>	1	0
19. Rooted upland plants in streambed	<u>3</u>	2	1	0
20. Macroinvertebrates (note diversity and abundance)	<u>0</u>	1	2	3
21. Aquatic Mollusks	<u>0</u>	1	2	3
22. Fish	<u>0</u>	0.5	1	1.5
23. Crayfish	<u>0</u>	0.5	1	1.5
24. Amphibians	<u>0</u>	0.5	1	1.5
25. Algae	<u>0</u>	0.5	1	1.5
26. Wetland plants in streambed	FACW = 0.75; <u>OBL = 1.5</u> Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

-ceratophyllum, mardannia

Notes:

Sketch:
