

NC DWQ Stream Identification Form Version 4.11

|                                                                                                 |                                                                       |                                          |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------|
| Date: 3/21/12                                                                                   | Project/Site: B-207                                                   | Latitude: 36.126777                      |
| Evaluator: Pete Stafford                                                                        | County: Alamance                                                      | Longitude: -79.44461                     |
| Total Points:<br>Stream is at least intermittent if $\geq 19$ or perennial if $\geq 30^*$ 15.75 | Stream Determination (circle one)<br>Ephemeral Intermittent Perennial | Other<br>e.g. Quad Name: Lake Burlington |

A. Geomorphology (Subtotal = 5.5)

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

<sup>a</sup> artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 4.5)

|                                              |        |     |         |     |
|----------------------------------------------|--------|-----|---------|-----|
| 12. Presence of Baseflow                     | 0      | 1   | 2       | 3   |
| 13. Iron oxidizing bacteria                  | 0      | 1   | 2       | 3   |
| 14. Leaf litter                              | 1.5    | 1   | 0.5     | 0   |
| 15. Sediment on plants or debris             | 0      | 0.5 | 1       | 1.5 |
| 16. Organic debris lines or piles            | 0      | 0.5 | 1       | 1.5 |
| 17. Soil-based evidence of high water table? | No = 0 |     | Yes = 3 |     |

C. Biology (Subtotal = 5.75)

|                                                       |                                 |     |   |     |
|-------------------------------------------------------|---------------------------------|-----|---|-----|
| 18. Fibrous roots in streambed                        | 3                               | 2   | 1 | 0   |
| 19. Rooted upland plants in streambed                 | 3                               | 2   | 1 | 0   |
| 20. Macroinvertebrates (note diversity and abundance) | 0                               | 1   | 2 | 3   |
| 21. Aquatic Mollusks                                  | 0                               | 1   | 2 | 3   |
| 22. Fish                                              | 0                               | 0.5 | 1 | 1.5 |
| 23. Crayfish                                          | 0                               | 0.5 | 1 | 1.5 |
| 24. Amphibians                                        | 0                               | 0.5 | 1 | 1.5 |
| 25. Algae                                             | 0                               | 0.5 | 1 | 1.5 |
| 26. Wetland plants in streambed                       | FACW = 0.75 OBL = 1.5 Other = 0 |     |   |     |

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

Notes: This stream has received significant damage from human alteration and cattle intrusion.

Sketch: See Attached map of B-207