



WATERSHED PROTECTION DEPARTMENT

P.O. Box 548
Pittsboro, NC 27312
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October 17, 2022

Cory Darnell
Sage Ecological Services, Inc.
3707 Swift Drive
Raleigh, NC 27606

Project Name: Parcel # 62077

Location: Seaforth Road, Chatham County

Subject Features: Seven (7) ephemeral streams, seven (7) intermittent stream segments, two (2) perennial stream segments, and five (5) potential wetlands

Date of Determination: October 4, 2022

Chatham County Record Number: WP-22-490

Explanation:

The site visit was completed on October 4, 2022, by Drew Blake with Chatham County Watershed Protection and Cory Darnell of Sage Ecological Services on Parcel # 62077 that is located within the Jordan Lake watershed. Sage personnel completed a previous site visit which resulted in the identification of fourteen (14) potential ephemeral segments, six (6) potential intermittent segments, two (2) potential perennial segments, and five (5) potential wetlands on the property. Sage submitted a request for Chatham County to complete a formal review to determine if the features would be subject to riparian buffers according to Section 304 of the Chatham County Watershed Protection Ordinance.

All points of origin, stream type transitions, and wetland boundaries were reviewed and agreed to in the field by all parties in attendance. Seven (7) ephemeral stream segments that were identified by Sage were removed as they did not have a well-defined channel or did not meet the 10-point requirement for an ephemeral stream.

Required Riparian Buffers:

All ephemeral stream segments will require a 30-ft buffer from the top of bank landward on both sides. All intermittent stream segments will require a 50-ft buffer from the top of bank landward on both sides. The perennial stream segment will require a 100-ft buffer from the top of bank landward on both sides.

The potential wetlands identified by Sage have not been confirmed by the US Army Corps of Engineers. Once the USACE confirmation is received the 50-ft riparian buffers will be required from the flagged wetland boundaries as confirmed by the USACE.

Impacts to Riparian Buffers:

Impacts to the riparian buffers may require a Riparian Buffer Authorization depending on the size and scope of the impacts. Please refer to Section 304 (J)(3) of the Chatham County Watershed Protection Ordinance to



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determine if your impacts will require a Riparian Buffer Authorization. If you determine that a Riparian Buffer Authorization is required, please contact Drew Blake to receive the required application and submittal instructions.

This on-site determination shall expire five (5) years from the date of this letter. Landowners or affected parties that dispute a determination made by Chatham County, on parcels outside of the Jordan Lake watershed, may submit a request for appeal in writing to the Watershed Review Board. A request for a determination by the Watershed Review Board shall be made in accordance with Section 304 of the Chatham County Watershed Protection Ordinance. Landowners or affected parties that dispute a determination made by Chatham County, on parcels inside the Jordan Lake watershed, shall submit a request for appeal in writing to NC DWR, 401 & Buffer Permitting Unit, 1650 Mail Service Center, Raleigh, NC 27669-1650 attention of the Director of the NC Division of Water Quality.

Should this project result in any direct impacts to surface water features (i.e., crossing and/or filling streams or wetlands) additional reviews may be necessary. Additionally, a Section 404/401 Permit may be required. Any inquiries regarding Section 404/401 permitting should be directed to the Division of Water Resources (Central Office) at (919)-807-6364 and the US Army Corp of Engineers (Raleigh Regulatory Field Office) at (919)-554-4884.

Respectfully,

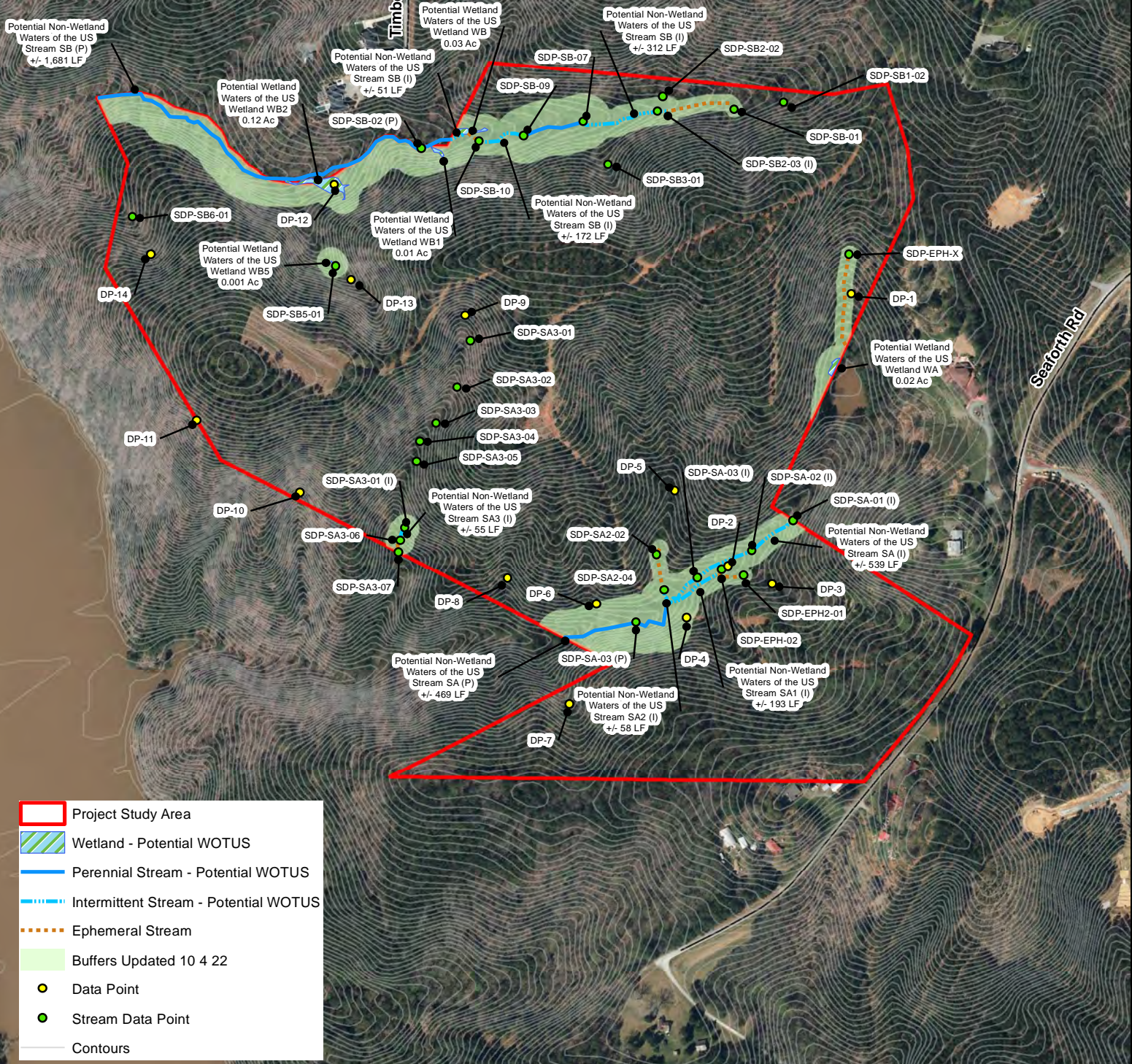
Drew Blake
Assistant Director, CESSWI

Enclosures:

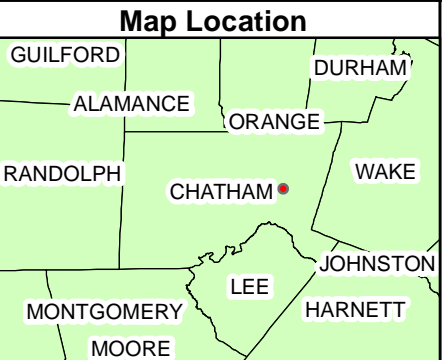
- Exhibit 3: Wetland Sketch Map – Completed by Sage
- Surface Water & Riparian Buffer Spreadsheet
- NC DWQ Stream Identification Form -Version 4.11 – Completed by Sage
- Wetland Determination Data Forms – Completed by Sage
- Environmental and Cultural Resources Due Diligence Report – Completed by Sage
- Major Subdivision Riparian Buffer Application
- Authorized Agent Form
- Authorization to Enter Property Form

cc: Rachael Thorn, Director, Chatham County Watershed Protection Department
Justin Hasenfus, Sr. Watershed Specialist, Chatham County Watershed Protection Dept.
Kimberly Tyson, Planner II/Subdivision Administrator, Chatham County Planning Department
Hunter Glenn, Planner I, Chatham County Planning Department
Angela Plummer, Planner II/Zoning Administrator, Chatham County Planning Department
Jason Sullivan, Director, Chatham County Planning Department

NOTE: Features depicted herein must be field verified by the USACE and/or NCDWR, or its delegated authority before being valid. Location, shape and size of depicted features on the evaluated site are approximate and should be surveyed by a licensed NC surveyor for final site planning.



- Project Study Area
- Wetland - Potential WOTUS
- Perennial Stream - Potential WOTUS
- Intermittent Stream - Potential WOTUS
- Ephemeral Stream
- Buffers Updated 10 4 22
- Data Point
- Stream Data Point
- Contours



Wetland Sketch Map

Searforth Road Property
Sage Project # 2022.074

Prepared by: C. Darnell
May 10, 2022

1 inch = 400 feet

Figure 3

Sage Ecological Services, Inc.
Office: 919-335-6757
Cell: 919-559-1537

Seaforth Road Property

Surface Water & Riparian Buffer Spreadsheet

Completed By: SAGE Ecological - C. Darnell

Feature ID	Feature Type	Stream/Wetland Data Form ID	Stream Length or Wetland Acres	Latitude	Longitude	Buffer Required	Buffer Jurisdiction (Jordan, County + Jordan)
Stream SA PER	Perennial	SDP-SA-03P	469	35.7092	-79.0786	100' (Perennial)	County+Jordan
Stream SB PER	Perennial	SDP-SB-02	1681	35.7136	-79.0825	100' (Perennial)	County+Jordan
Stream SA INT	Intermittent	SDP-SA-01	539	35.7099	-79.0774	50' (Intermittent)	County+Jordan
Stream SA1	Intermittent	SDP-SA-03I	193	35.7096	-79.0778	50' (Intermittent)	County+Jordan
Stream SA2	Intermittent	SDP-SA2-04	58	35.7095	-79.0781	50' (Intermittent)	County+Jordan
Stream SA3	Intermittent	SDP-SA3-06	55	35.7101	-79.0813	50' (Intermittent)	County+Jordan
Stream SB	Intermittent	SDP-SB-01	51	35.7140	-79.0807	50' (Intermittent)	County+Jordan
Stream SB	Intermittent	SDP-SB-10	173	35.7140	-79.0801	50' (Intermittent)	County+Jordan
Stream SB	Intermittent	SDP-SB2-03	312	35.7142	-79.0786	50' Jurisdictional Wetland	County+Jordan
Wetland WA	Jurisdictional Wetland	DP-15	0.02	35.7118	-79.0761	50' Jurisdictional Wetland	County+Jordan
Wetland WB	Jurisdictional Wetland	DP-16	0.03	35.7141	-79.0805	50' Jurisdictional Wetland	County+Jordan
Wetland WB1	Jurisdictional Wetland	DP-17	0.01	35.7139	-79.0809	50' Jurisdictional Wetland	County+Jordan
Wetland WB2	Jurisdictional Wetland	DP-12	0.12	35.7135	-79.0822	50' Jurisdictional Wetland	County+Jordan
Wetland WB5	Jurisdictional Wetland	DP-18	0.001	35.7128	-79.0821	50' Jurisdictional Wetland	County+Jordan
SDP-EPH	Ephemeral	SDP-EPH-02	25	35.7097	-79.0775	30' (Ephemeral)	County+Jordan
SDP-SA2	Ephemeral	SDP-SA2-02	158	35.7099	-79.0782	30' (Ephemeral)	County+Jordan
SDP-EPH1	Ephemeral	SDP-EPH-X	331	35.7126	-79.0760	30' (Ephemeral)	County+Jordan
SDP-SA3	Ephemeral	SDP-SA3-01	45	35.7108	-79.0812	30' (Ephemeral)	County+Jordan
SDP-SA1	Ephemeral	SDP-EPH2-01	98	35.7097	-79.0774	30' (Ephemeral)	County+Jordan
SDP-SB	Ephemeral	SDP-SB-10	64	35.7140	-79.0805	30' (Ephemeral)	County+Jordan
SDP-SB	Ephemeral	SDP-SB-01	255	35.7143	-79.0777	30' (Ephemeral)	County+Jordan

Stream ID:	SDP-SA01
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7102
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0766
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	22.5	Stream Determination:	Intermittent	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 12	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	3
2. Sinuosity of channel along thalweg		0	1	2	3	3
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	2
5. Active/relic floodplain		0	1	2	3	0
6. Depositional bars or benches		0	1	2	3	1
7. Recent alluvial deposits		0	1	2	3	0
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	0.5
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 6.5	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	1
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	0.5
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 4	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	1
19. Rooted upland plants in streambed		3	2	1	0	2
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	1
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	0
24. Amphibians		0	0.5	1	1.5	0
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA02
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.71
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0771
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	24.5	Stream Determination:	Intermittent	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 13	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	3
2. Sinuosity of channel along thalweg		0	1	2	3	3
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	2
5. Active/relic floodplain		0	1	2	3	0
6. Depositional bars or benches		0	1	2	3	2
7. Recent alluvial deposits		0	1	2	3	0
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	0.5
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 6.5	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	1
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	0.5
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 5	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	1
19. Rooted upland plants in streambed		3	2	1	0	3
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	1
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	0
24. Amphibians		0	0.5	1	1.5	0
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA2-04
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7096
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0782
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	24.5	Stream Determination:	Intermittent	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 12.5	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	2
2. Sinuosity of channel along thalweg		0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	2
5. Active/relic floodplain		0	1	2	3	0
6. Depositional bars or benches		0	1	2	3	2
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 7	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	1
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	1
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 5	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	1
19. Rooted upland plants in streambed		3	2	1	0	3
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	1
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	0
24. Amphibians		0	0.5	1	1.5	0
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA03
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7097
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0778
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	25	Stream Determination:	Intermittent	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 13	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	2
2. Sinuosity of channel along thalweg		0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	2
4. Particle size of stream substrate		0	1	2	3	1
5. Active/relic floodplain		0	1	2	3	1
6. Depositional bars or benches		0	1	2	3	1
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	1
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 7	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	1
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	1
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 5	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	2
19. Rooted upland plants in streambed		3	2	1	0	2
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	1
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	0
24. Amphibians		0	0.5	1	1.5	0
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA-03
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7093
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0785
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	32	Stream Determination:	Perennial	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 18	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	3
2. Sinuosity of channel along thalweg		0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	2
4. Particle size of stream substrate		0	1	2	3	2
5. Active/relic floodplain		0	1	2	3	2
6. Depositional bars or benches		0	1	2	3	2
7. Recent alluvial deposits		0	1	2	3	2
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	1
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 9	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	2
13. Iron oxidizing bacteria		0	1	2	3	1
14. Leaf litter		1.5	1	0.5	0	1
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 5	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	2
19. Rooted upland plants in streambed		3	2	1	0	2
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	1
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	0
24. Amphibians		0	0.5	1	1.5	0
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA3-01
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7102
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0813
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	25.5	Stream Determination:	Intermittent	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 13.5	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	3
2. Sinuosity of channel along thalweg		0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	2
5. Active/relic floodplain		0	1	2	3	0
6. Depositional bars or benches		0	1	2	3	2
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 7	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	1
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	1
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 5	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	1
19. Rooted upland plants in streambed		3	2	1	0	3
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	1
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	0
24. Amphibians		0	0.5	1	1.5	0
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB-02
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7139
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0811
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	31.5	Stream Determination:	Perennial	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 14.5	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	3
2. Sinuosity of channel along thalweg		0	1	2	3	3
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	1
5. Active/relic floodplain		0	1	2	3	1
6. Depositional bars or benches		0	1	2	3	2
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 8	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	2
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	1
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 9	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	3
19. Rooted upland plants in streambed		3	2	1	0	2
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	2
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	1
24. Amphibians		0	0.5	1	1.5	1
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB2-03
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7143
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0782
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	25.5	Stream Determination:	Intermittent	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 13.5	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	3
2. Sinuosity of channel along thalweg		0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	2
5. Active/relic floodplain		0	1	2	3	0
6. Depositional bars or benches		0	1	2	3	2
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 7	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	1
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	1
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 5	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	1
19. Rooted upland plants in streambed		3	2	1	0	3
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	1
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	0
24. Amphibians		0	0.5	1	1.5	0
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB-07
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7142
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0791
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	32.5	Stream Determination:	Perennial	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 15.5	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	3
2. Sinuosity of channel along thalweg		0	1	2	3	3
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	2
5. Active/relic floodplain		0	1	2	3	1
6. Depositional bars or benches		0	1	2	3	2
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 8	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	2
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	1
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 9	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	3
19. Rooted upland plants in streambed		3	2	1	0	2
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	2
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	1
24. Amphibians		0	0.5	1	1.5	1
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB-09
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.714
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0798
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	23.5	Stream Determination:	Intermittent	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 12.5	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	3
2. Sinuosity of channel along thalweg		0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	1
5. Active/relic floodplain		0	1	2	3	0
6. Depositional bars or benches		0	1	2	3	2
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

B. Hydrology	Subtotal = 7	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		0	1	2	3	1
13. Iron oxidizing bacteria		0	1	2	3	0
14. Leaf litter		1.5	1	0.5	0	1
15. Sediment on plants or debris		0	0.5	1	1.5	1
16. Organic debris lines or piles		0	0.5	1	1.5	1
17. Soil-based evidence of high water table?		No = 0		Yes = 3		3

C. Biology	Subtotal = 4	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed		3	2	1	0	1
19. Rooted upland plants in streambed		3	2	1	0	2
20. Macroinvertebrates (note diversity and abundance)		0	1	2	3	1
21. Aquatic Mollusks		0	1	2	3	0
22. Fish		0	0.5	1	1.5	0
23. Crayfish		0	0.5	1	1.5	0
24. Amphibians		0	0.5	1	1.5	0
25. Algae		0	0.5	1	1.5	0
26. Wetland plants in streambed		FACW=0.75; OBL=1.5 Other=0				0

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-EPH-02
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7098
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0775
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	14.5	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 8.5	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	1
2. Sinuosity of channel along thalweg		0	1	2	3	1
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	1
5. Active/relic floodplain		0	1	2	3	0
6. Depositional bars or benches		0	1	2	3	1
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	1
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-EPH2-01 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7097
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0772
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	13.5	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	Merry Oaks

A. Geomorphology	Subtotal = 7.5	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank		0	1	2	3	1
2. Sinuosity of channel along thalweg		0	1	2	3	1
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence		0	1	2	3	1
4. Particle size of stream substrate		0	1	2	3	1
5. Active/relic floodplain		0	1	2	3	0
6. Depositional bars or benches		0	1	2	3	1
7. Recent alluvial deposits		0	1	2	3	1
8. Headcuts		0	1	2	3	0
9. Grade controls		0	0.5	1	1.5	1
10. Natural valley		0	0.5	1	1.5	0.5
11. Second or greater order channel		No = 0		Yes = 3		0

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA2-02 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7099
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0782
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	14	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	Merry Oaks

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA3-01 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.712
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0805
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	13	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	Merry Oaks

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA3-02 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.712
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0805
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	13	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	Merry Oaks

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA3-03 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7112
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0809
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	13	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	Merry Oaks

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA3-04 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7112
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0809
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	12	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	Merry Oaks

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA3-05 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7108
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0811
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	12	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	Merry Oaks

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA3-06 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.71
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0813
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	13	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SA3-07 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7099
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0813
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	13	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB-01 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7143
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0773
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	10	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB1-02 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7143
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0767
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	11	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB2-02 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7144
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0782
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	12	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB3-01 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7137
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0788
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	11	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

* artificial ditches are not rated; see discussions in manual.

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB5-01 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7099
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0813
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	11	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB6-01 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.7099
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0813
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	12	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch:

Stream ID:	SDP-SB-10 EPH
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NC DWQ Stream Identification Form Version 4.11

Date:	5/2/2022	Project/Site:	Seaforth Road Site	Latitude:	35.714
Evaluator:	Darnell, Beach	County:	Chatham	Longitude:	-79.0804
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	11	Stream Determination:	Ephemeral	Other: e.g. Quad Name:	

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

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

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

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

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	

Sketch: