



WATERSHED PROTECTION DEPARTMENT

P.O. Box 548
Pittsboro, NC 27312
Phone: (919) 545-8394

Fax: (919) 542-2698 • E-mail: drew.blake@chathamnc.org • Website: www.chathamnc.org

June 21, 2019

Robert Turnbull
Environmental Services Inc.
4901 Trademark Drive
Raleigh, NC 27610

Project Name: Hobby Farm Subdivision Parcel # 68308

Location: Andrews Store Road/ Manns Chapel Road, Chatham County

Subject Features: One (1) intermittent segment

Date of Determination: June 20, 2019

Explanation:

The site visit was completed on June 20, 2019 by Drew Blake with the Chatham County Watershed Protection Department and Robert Turnbull, Environmental Services, Inc. (ESI), on a property identified as Chatham County Parcel# 68308 that is located within the Jordan Lake watershed. ESI personnel completed a previous site visit which resulted in the identification of one (1) intermittent stream on the property. ESI 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 in the field. No revisions to the findings of ESI were made by Chatham County.

Should a USACE review result in revisions to any features reviewed by Chatham County staff on June 20, 2019, additional reviews and consultation may be required. Please provide all revised maps, sketches, and documentation to Drew Blake following the USACE site visit for inclusion in our records.

Required Riparian Buffers:

The intermittent stream will require a 50-ft buffer from the top of bank landward on both sides of the feature. 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 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.



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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,

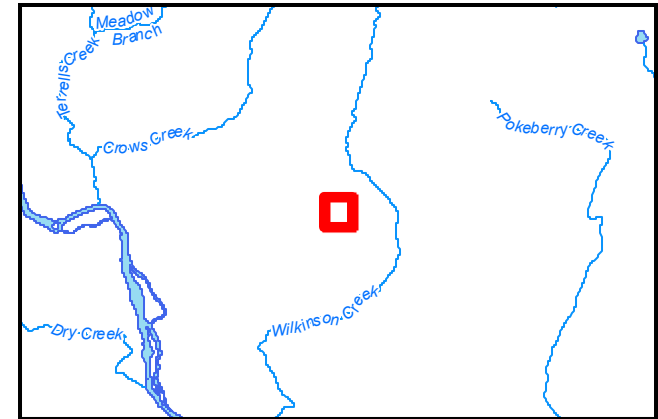
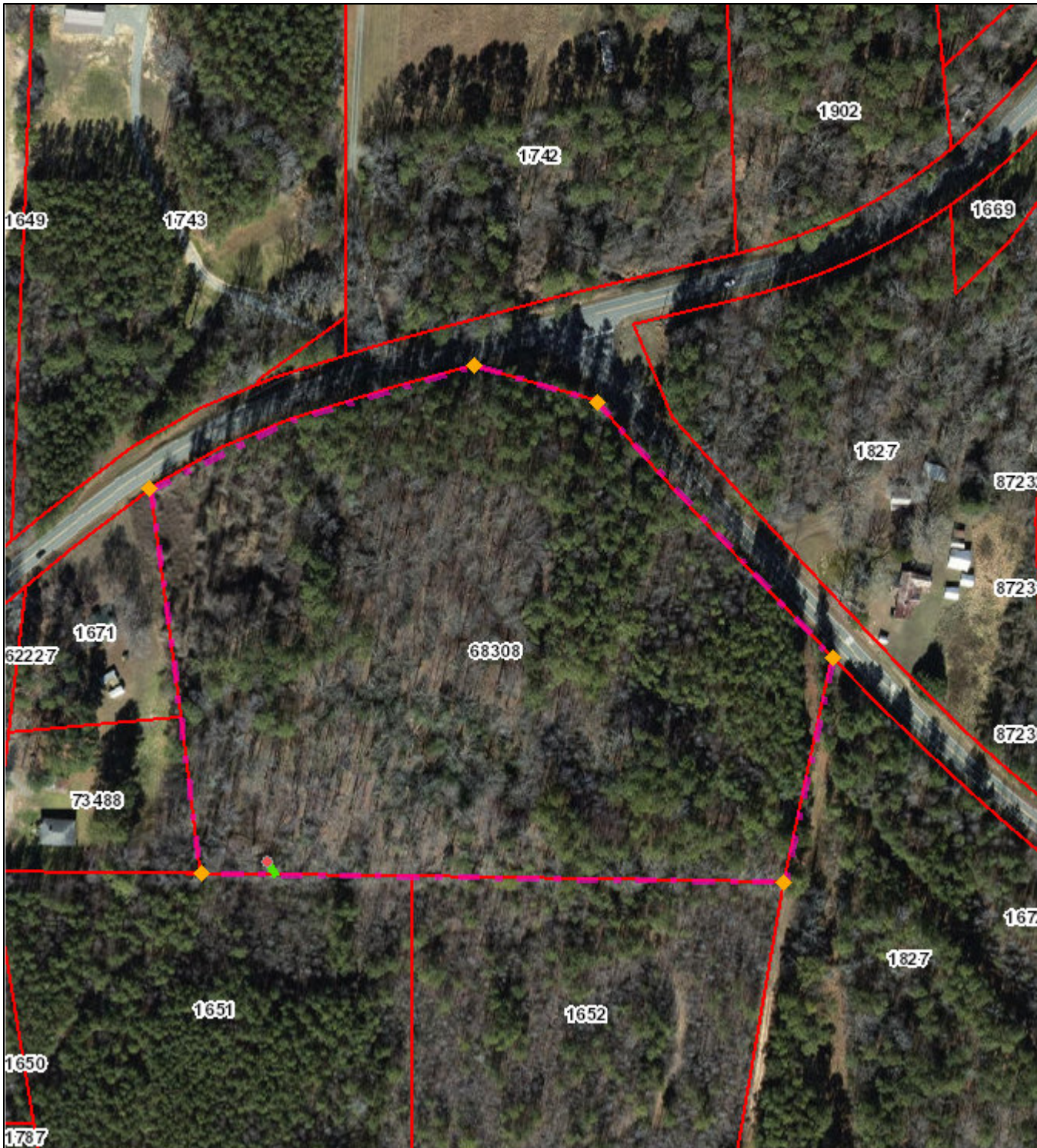
Drew Blake

Drew Blake
Watershed Specialist, CESSWI

Enclosures: Figure 1: Post-Confirmation Map – completed by Chatham County
 Figure 2: Pre-Confirmation Map – completed by ESI
 ESI Stream ID Form
 Major Subdivision Riparian Buffer Application
 Authorized Agent Form
 Authorization to Enter Property Form
 Site Photographs – provided by ESI

cc: Rachael Thorn, Chatham County Watershed Protection Director
 Kimberly Tyson, Chatham County Planner II/Subdivision
 Jason Sullivan, Chatham County Director of Planning

Figure 1



Legend

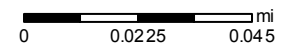
Riparian Transition Points

- Origin-Intermittent
- ◆ Review Corners

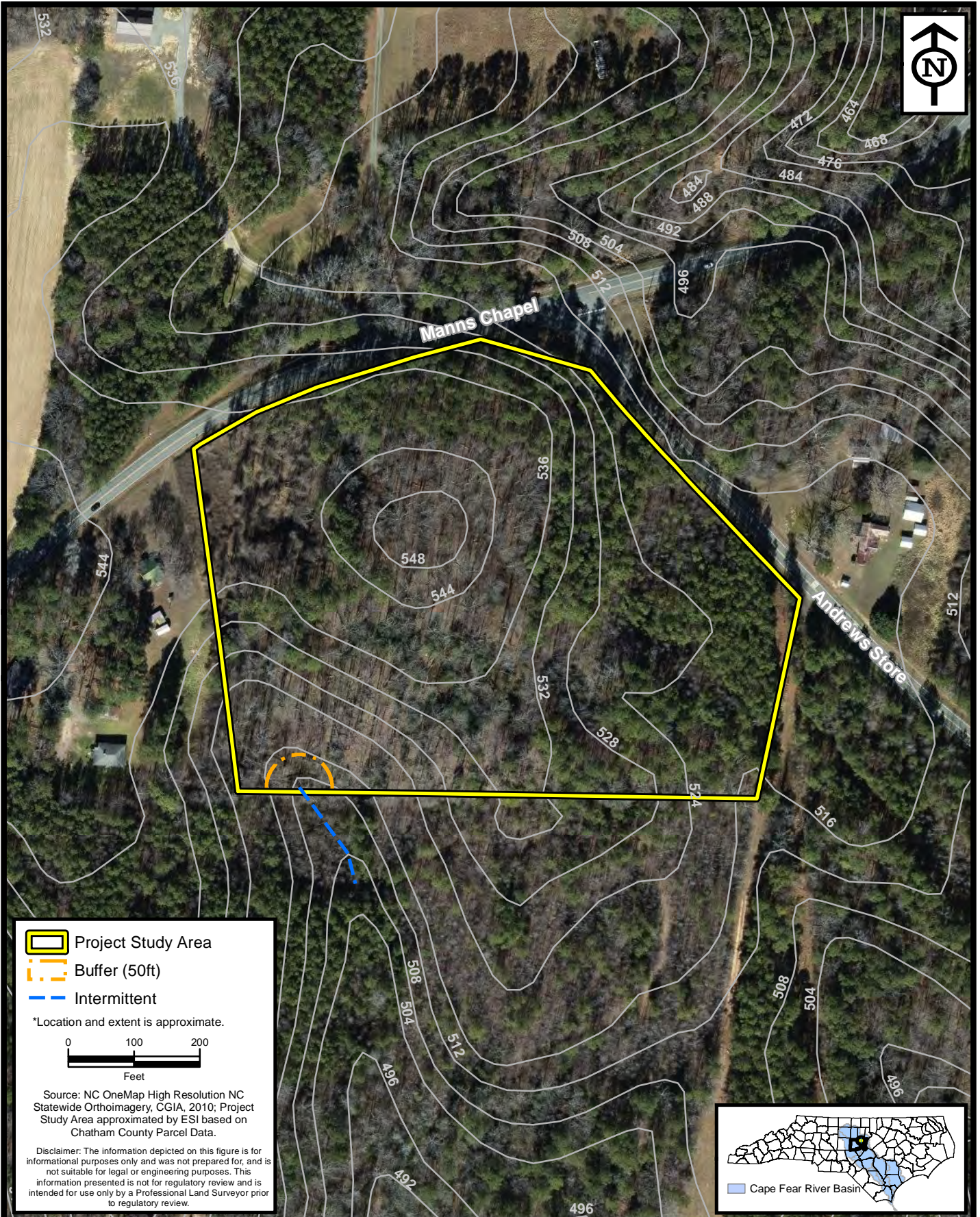
Riparian Streams




- Intermittent
- - - Review Boundaries
- Parcels

Service Layer Credits: NC911, Chatham County, Chatham County GIS
Chatham County, Chatham County

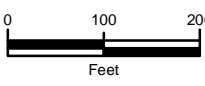


Date: 6/21/2019
Time: 1:37:45 PM



 Project Study Area
 Buffer (50ft)
 Intermittent

*Location and extent is approximate.


 0 100 200
 Feet

Source: NC OneMap High Resolution NC Statewide Orthoimagery, CGIA, 2010; Project Study Area approximated by ESI based on Chatham County Parcel Data.

Disclaimer: The information depicted on this figure is for informational purposes only and was not prepared for, and is not suitable for legal or engineering purposes. This information presented is not for regulatory review and is intended for use only by a Professional Land Surveyor prior to regulatory review.




ENVIRONMENTAL SERVICES, INC.
 4901 Trademark Drive
 Raleigh, NC 27610
 (919) 212-1760
 (919) 212-1707 FAX
www.environmentalservicesinc.com

Surface Water Evaluation
Chatham County Parcel 68308
 Chatham County, North Carolina

Project:	ER19128.00
Date:	May 2019
Drwn/Chkd:	CW/RT
Figure:	1

NC DWQ Stream Identification Form Version 4.11

Date: 5/23/19	Project/Site: Chatham Co. Parcel 68308	Latitude: 35.81913
Evaluator: EST - R. Turnbull, R. Gurnham	County: chatham	Longitude: -79.14932
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30 25	Stream Determination (circle one) Ephemeral Intermittent Perennial	Other Bynum e.g. Quad Name:

A. Geomorphology (Subtotal = 12.5)

	Absent	Weak	Moderate	Strong
1 ^a 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	

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

B. Hydrology (Subtotal = 7)

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 = 0)

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)			

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

Notes:

Sketch:



Date Received: _____ PL# _____

Riparian Buffer Review Application
Surface Water Identification Request

Will this project result in the review of less than or equal to 25 acres? Yes No
Will this project result in the review of greater than 25 acres? Yes No

If your project will result in a review of greater than 25 acres please contact a private consulting firm to complete the surface water determination. For stream determinations the consultant must have successfully completed the NCDWQ/NC State University Surface Waters Classification. For wetland delineations the consultant must demonstrate at least 2 years of experience delineating jurisdictional wetlands in accordance with the Eastern Mountains and Piedmont Regional Supplement to the 1987 US Corps of Engineers Wetland Delineation Manual. Please visit the Watershed Protection Department website for a list of consultants that regularly complete work within Chatham County.

Review Type: Subdivisions (excluding Majors) Jordan Reviews

Tract Information

Parcel #: 68308 Watershed District (and name of creek if known): WS-IV PA

Property Owner: Barbara Thomason

Location/Physical Address of Tract: 3267 Andrews Store Road, Pittsboro, NC 27312

Driving Directions from Pittsboro: North on US 15/501, Left on Moore Mountain Road, Left on Hamlets Chapel Road, Right on Manns Chapel Road, Property is at corner of Manns Chapel Road and Andrews Store Road.

Subdivision Name (if applicable): _____

Owner's/Agent Contact Information (Agent: Consultant or individual(s) receiving lot(s))

Name: Robert Turnbull

Contact Phone Numbers: (h) (919) 212-1760 (w) _____ (c) (919)819-1846

E-mail: rturnbull@esinc.cc

Mailing Address: 4901 Trademark Drive Raleigh, NC 27610

Do you wish to be contacted prior to Chatham County staff visiting the property? Yes No

How much notice is required prior to arrival onsite? 1 hour



How would you like to receive the completed review letter? (Please check one of the following)

- I would like to pick up the completed Riparian Buffer Review at the County Office
- I would like the completed Riparian Buffer Review mailed to me
- I would like the completed Riparian Buffer Review e-mailed to me

Please include the following items with this request

- Copy of Original Plat, Chatham County GIS Map, or detailed drawing indicating review area
- Signed Right to Enter Property Form
- Signed Owner's Agent Designation Form (if applicable) Not Applicable
- Fee (make checks payable to Chatham County)

Minor Subdivisions: \$50 Administration Fee plus \$50 per lot created

Total Lots Created: _____ Total Paid: \$ _____

** The above fees do not apply to Jordan Lake Buffer Confirmations or confirmations of USGS mapped streams in accordance with the 1994 Chatham County Watershed Protection Ordinance*

I have read and understand the regulations of the Watershed Protection Ordinance, Section 304, and I agree to adhere to these associated policies and guidelines herein.

Owner/Agent Signature: Robert O. Powell (Agent) Date: 5/28/2019



CHATHAM COUNTY

AUTHORIZED AGENT FOR FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PARCEL ID (PIN) 68308 PARCEL SIZE 12.91 acres

STREET ADDRESS: 3267 Andrews Store

Please print:

Property Owner: BARBARA H. THOMASON

Property Owner: Barbara H Thomason

The undersigned owner(s) of the above described property, do hereby authorize

Jeff harbour / Robert Turnbull, of Environmental Services, Inc
(Contractor / Agent) (Name of consulting firm if applicable)

to act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, issuance and acceptance of reviews, inspections, or permits and any and all standard and special conditions attached to these approvals. The activities authorized include the following (Check all that apply):

Check here for all of the below options.

- Building Permit
- Zoning Compliance Permits
- Floodplain Determination
- Soil Erosion & Sedimentation Control Permit
- Permits to install, repair, evaluate, or expand onsite wastewater system(s)
- Evaluation/inspection/permitting of a private drinking water well(s).
- Riparian Buffer Review pursuant to §304 of the Chatham Co. Watershed Protection Ordinance.
- Other: _____

Property Owner's Address (if different than property above):
368 white Oak Ter., Chapel Hill, NC 27516

Telephone: 919-932-1026 E-mail: baebthom09@yahoo.com

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

Barbara H. Thomason
Owner Authorized Signature

Date: 5/12/19

Robert T. Turnbull
Agent Authorized Signature

Date: 5/28/2019



Watershed Protection Department

P.O. Box 548
Pittsboro, NC 27312

Website: www.chathamnc.org

Authorization to Enter Property Form

Date: 5/12/19

PARCEL No. (AKPAR) 68308

I, (print name) BARBARA H. THOMASON, as owner of the property described above, or as a representative of the owner(s) do hereby convey permission to Chatham County staff to enter the property at their convenience to conduct a surface water identification (SWID) necessary to determine whether or not water features on my property are subject to the riparian buffer regulations described in Section 304 of the Chatham County Watershed Protection Ordinance. The SWID will be public record and on file at the Planning and Watershed Protection Departments, and may be requested in the future for review by interested parties.

I understand that stream delineations for the property listed above will be made by County staff only once and that if future subdivisions are proposed within this property boundary, it will require a surface water identification by a private consultant at the property owner's expense.

BARBARA H. THOMASON
(Print Owner's Name)

Barbara H. Thomason
(Signature of Owner)
(Date)

Robert Turnbull
(Print Authorized Agent Name)

Robert T. Turnbull 5/28/19
(Signature of Authorized Agent)
(Date)

RIGHT OF ENTRY AGREEMENT

I/We Barbara H. THOMPSON, the owner(s) of the (Owner Name) property commonly identified as Parcel # 68308

(street address or parcel ID)

Pittsboro, Chatham State of NC
(City/Town) (County)

hereby grant, freely and without coercion, the right of access and entry to said property to Environmental Services, Inc., including but not limited to its employees, contractors, subcontractors and any applicable regulatory agency personnel, for the purpose of environmental, ecological or archaeological assessments.

This access agreement is effective upon signature and shall remain in effect until such time as assessment activities are completed, including any ancillary activities associated with said activities.

For the consideration and purposes set forth herein, I/We hereby acknowledge, accept and agree to the terms of the Right of Entry Agreement as evidenced by my dated signature below.

Signed this 12 day of May 2019.

Print Name: Barbara H Thompson

Signature: BH Thompson

*Chatham County Parcel 68308
Stream Photo Page*



Upstream



Downstream