

Soil & Environmental Consultants, PA

8412 Falls of Neuse Road, Suite 104, Raleigh, NC 27615 • Phone: (919) 846-5900 • Fax: (919) 846-9467 sandec.com

March 13, 2020

S&EC Project No.: 13785.W4

To:

Trinsic Acquisition Company, LLC

Attn: Ryan Stewart

110 Corcoran Street 5th floor

Durham, NC 27701

Re:

Wetland Delineation and Stream Evaluation

850 N. Estes Drive Chapel Hill, NC

Mr. Stewart:

On March 9, 2020 S&EC personnel completed the wetland delineation and stream evaluation on the N. Estes Drive property in Chapel Hill, NC. You will find the attached report detailing our findings. Maps that further document the wetland and stream related site characteristics are also attached.

The next step in the wetland and stream verification process is to visit the site with the Army Corps of Engineers' agent for Orange County. S&EC will schedule this site visit at your request.

As you move forward in planning your development, S&EC personnel are available for site plan review and permit consultation services. Please contact S&EC if you have any questions related to wetland and stream regulations or if you need clarification of the attached report.

Sincerely,

SOIL & ENVIRONMENTAL CONSULTANTS, PA

Steven Ball, RF, PWS

Project Manager

Attachments:

- 1) Wetland Delineation Report
- 2) USGS site vicinity map
- 3) NRCS Soil Survey
- 4) Wetland & Stream Sketch Map
- 5) Agent Authorization Form
- 6) Orange County Buffer Letter



Soil & Environmental Consultants, PA

8412 Falls of Neuse Road, Suite 104, Raleigh, NC 27615 • Phone: (919) 846-5900 • Fax: (919) 846-9467 sandec.com

DETAILED WETLAND DELINEATION & STREAM EVALUATION FOR THE N. ESTES DRIVE SITE

On MARCH 9, 2020, S&EC personnel completed a detailed wetland delineation and stream evaluation on the N. Estes Drive Site (± 14 acres). The site is located on 850 N. Estes Drive in Chapel Hill, NC. Figure 1 and Figure 2 show the location of the site on a USGS topographic quadrangle and NRCS County Soil Survey, respectively.

EXECUTIVE SUMMARY

We have determined that wetlands and streams generally account for the jurisdictional waters observed on the site. The attached wetland sketch map depicts the approximate locations of streams and wetlands identified during our evaluation. Please refer to the sketch map and the results and recommendations section below for more detailed information.

SCOPE OF WORK

The detailed wetland delineation consisted of traversing the property to examine soils, vegetation, and hydrology across the site in search of areas that meet the criteria for jurisdictional wetlands as described by the procedures set forth in the Corps of Engineers Wetlands

Delineation Manual (January 1987 – Final Report) and Reginal Supplement (Version 2.0).

Areas on the site with positive indicators of hydric soils, evidence of wetland hydrology, and presence of hydrophytic vegetation were flagged with sequentially numbered orange S&EC logo flagging. Proof of wetland hydrology would be the existence of hydric soils with oxidized root channels in the upper 12 inches of the soil profile, water borne deposits, drift lines, scour marks, drainage patterns, regional indicators of soil saturation, etc. Surface waters such as intermittent and perennial stream channels, ponds, and lakes, which are also subject to regulation by the US Army Corps of Engineers (USACE) as waters of the US, were also identified. These surface waters may also be referred to as jurisdictional waters to indicate that they are within the jurisdiction of the USACE. It is important to note that wetlands are also classified as waters of the US and regulated by the USACE under authority of the Clean Water Act (33 USC 1344).

RESULTS & RECOMMENDATIONS

The results of the detailed wetland delineation and stream evaluation are discussed below.

Wetlands and Jurisdictional Waters:

We have determined that jurisdictional waters (i.e., streams and wetlands) exist on the site. Please refer to the attached "Wetland Sketch Map" for specific flag numbers and approximate locations.

A jurisdictional stream was observed during the site evaluation; the approximate location of the stream is illustrated on the attached wetland sketch map. Streams identified on-site are described below:

• Feature A (UT to Cole Springs Branch) is believed to be an intermittent stream in the southeast corner of the property (See attached buffer letter).

Surface waters on this site flow into Bolin Creek in the Cape Fear River Basin, which has been classified in "Classification and NC DWQ Standards Applicable to Surface Waters and Wetlands of North Carolina" as WS-V;NSW.

The wetlands onsite were identified as being a Headwater Forest wetland type as outlined in the publication ^I"NCWAM Manual." This wetland type is common throughout the piedmont region of North Carolina and is found mainly along headwater streams like the one onsite. The wetland areas in the timber operation should be reviewed in a drier period. The wetlands meet all criteria and indicators but have been heavily disturbed by the logging operation. It is also possible these areas could be considered isolated. The USACE would need to confirm.

Orange County Buffers:

Orange county has conducted a buffer evaluation on this site. The documentation is attached.

All S&EC flags comprising the wetland and jurisdictional waters delineation should be surveyed and a Wetland Delineation Map generated for use in site planning and USACE approval and permitting. The entire length of each stream feature was not flagged but will need to be survey located for the Wetland Delineation Map. Stream features may be located either along the centerline (with channel widths noted at each survey point) or at the top-of-bank. Please have the property owner or contracting buyer complete the attached agent authorization form if you would like S&EC to act on their behalf for requesting approval of the wetland delineation. This form will also be used in preparing a permit application for impacts to wetlands or surface waters when we are provided with a plan showing the proposed impacts. S&EC cannot conduct correspondence with the USACE unless we have agent authorization (see attached Agent Authorization). This authorization form must be filled out in its entirety and returned to S&EC (a faxed copy is acceptable).

Regulations

A general list of regulations that apply to jurisdictional wetlands and waters present on the site are discussed below. Please be aware that other local, state, and federal regulations not included in this list may also apply. S&EC personnel are available to discuss these regulations as they apply to your project.

Wetland Permitting:

The current Nationwide Permits were issued by the USACE on March 18, 2017. The USACE Wilmington District issued revised Regional Conditions for the 2017 Nationwide Permits. We

¹"North Carolina Wetland Assessment Method.

March 18, 2020

S&EC Project #: 13785.W4

Page 3 of 3

recommend you forward a conceptual site plan to our office for review by one of our permitting specialist, who can best advise you of the specific permitting needs as you progress through the planning process.

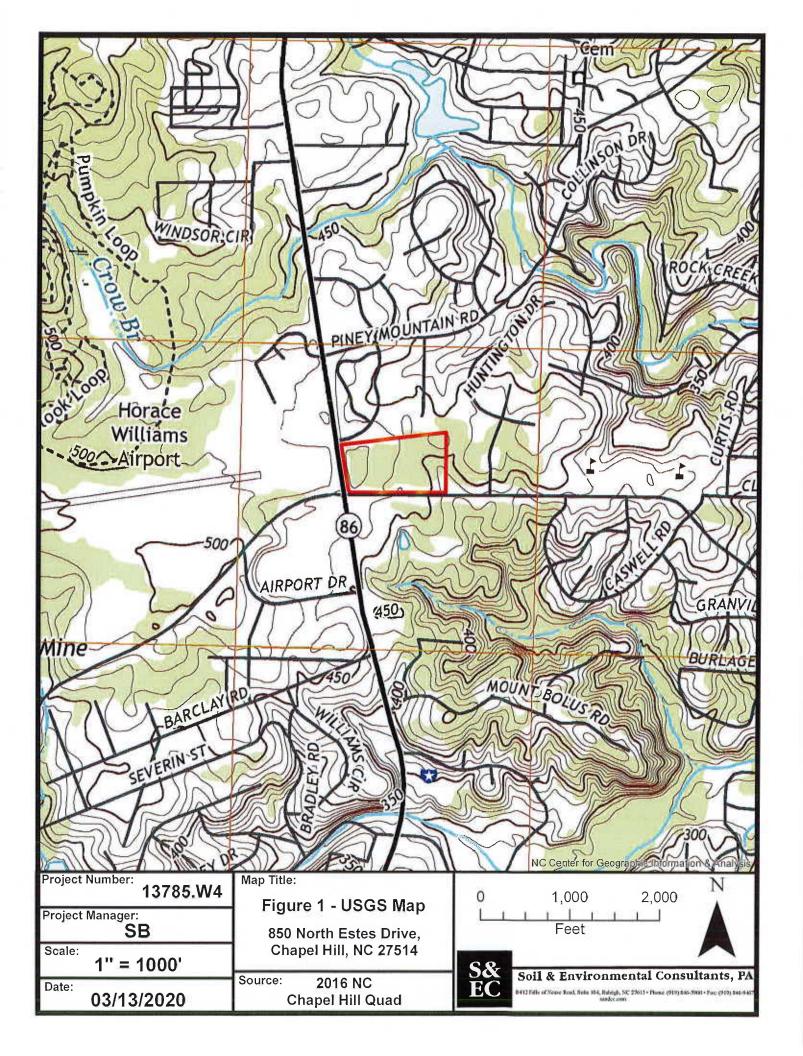
Generally, wetland impact permits are issued on a per-project basis as determined by the USACE. The USACE has determined that impacts on parcels sub-divided from larger tracts are sometimes considered to be cumulative to existing impacts for the large tract. If this is the case, then thresholds for notification may not apply to your project and impacts to streams/wetlands must be considered in light of existing permits.

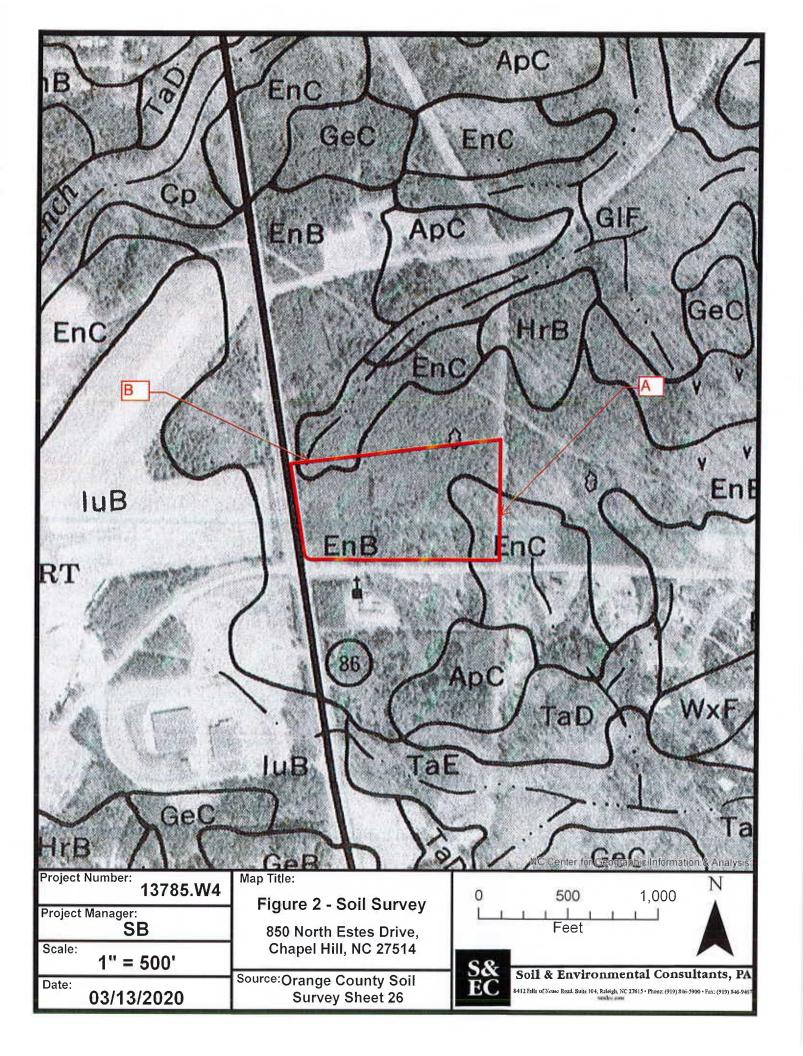
Limitations

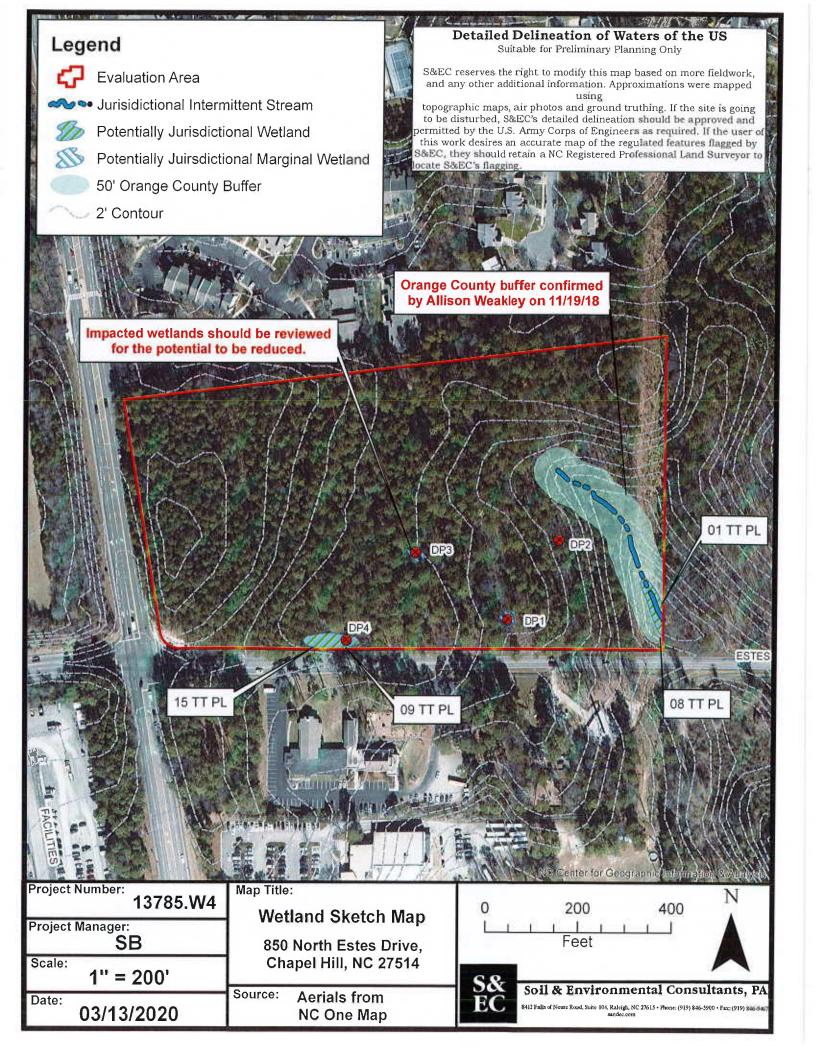
Our evaluations, conclusions, and recommendations are based on project and site information available to us at the time of this report and may require modification if there are any changes in the project or site conditions, or if additional data about the project or site becomes available in the future. This report is intended for use by Trinsic Acquisitions Company, LLC on this project. These findings are not intended or recommended to be suitable for reuse on extensions of the project or on any other project. Reuse on extensions of this project or on any other project shall be done only after written verification or adaptation by SOIL & ENVIRONMENTAL CONSULTANTS, PA, for the specific purpose intended.

CONCLUSION

The wetland and stream delineation for the 850 N. Estes Drive Property was completed by S&EC on March 9, 2020. This site contains potentially jurisdictional streams and wetland areas that may require preconstruction authorization for impacts, depending on the size and nature of the impact (i.e. road construction, lot fill, stormwater pond construction, etc.). USACE and DWR/WQP verification of our site assessment should be obtained. Following verification meetings with regulatory agencies, the next step in the stream and wetland identification and permitting process is to obtain a field survey of our delineation for formal approval by the USACE. Upon completing the survey, these site constraints may then be integrated into planning for property development.









Soil & Environmental Consultants, PA

8412 Falls of Neuse Road, Suite 104, Raleigh, NC 27615 • Phone: (919) 846-5900 • Fax: (919) 846-9467 sandec.com

PROPERTY OWNER CERTIFICATION / AGENT AUTHORIZATION

Project Name/Description:	S&EC Project #
Date:	
The Department of the Army U.S. Army Corps of Engineers, Wilmington District 69 Darlington Avenue Wilmington, NC 28403	
Attn: Field Office:	
I, the undersigned, a duly authorized owner of record of the propauthorize representatives of the Wilmington District, U.S. Army Consultants, PA (S&EC) staff (as my agent) to enter for the purpose of conducting on-site investigations and issuing a of the U.S. subject to Federal jurisdiction under Section 404 of the Rivers and Harbors Act of 1899. This document also authorize behalf and take all actions necessary for the processing, issuance certification and any and all associated standard and special condeprevious correspondence concerning the agent for this project.	orps of Engineers (Corps) and Soil & er upon the property herein described determination associated with Waters e Clean Water Act and/or Section 10 of les S&EC (as my agent) to act on my and acceptance of a permit or
NOTICE: This authorization, for liability and professional courtesy officials to enter the property when accompanied by S&EC staff. meeting prior to visiting the site.	reasons, is valid only for government You should call S&EC to arrange a site
PARCEL INFORMATION: Parcel Index Number(s) (PIN): Site Address: City, County, State:	
PROPERTY OWNER INFORMATION: Name:	
Address:	
Phone No.: () Fax No.: () Email:	Mobile No.: ()
Property Owner (please print)	Date
Property Owner Signature	

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



PUBLIC WORKS DEPARTMENT STORMWATER MANAGEMENT DIVISION

405 Martin Luther King, Jr. Blvd. Chapel Hill, NC 27514-5705 Telephone (919) 969-7246 Fax (919) 969-7276 www.townofchapelhill.org

November 21, 2018

Mr. Dan Jewell Coulter Jewell Thames, PA 111 W. Main Street Durham, NC 27701 diewell@citpa.com

RE:

Stream Determination for 850 N. Estes Drive, Chapel Hill, NC 27514

PIN 9789-35-9617

Dear Mr. Jewell:

As requested, the Town Public Works Department has performed a stream determination for the property identified on the attached forms. This determination indicates whether different types of streams (perennial, intermittent, and/or ephemeral) or perennial waterbodies are present on the property in question or on nearby properties. These streams and their classifications are shown on the accompanying map. Stream segments regulated by the Town's Jordan Lake Watershed Riparian Buffer regulations are highlighted. Locations of all features on the map are approximate and must be field surveyed for precise location.

This stream determination information is used to determine the location and extent of the Resource Conservation District (RCD) and Jordan Lake Watershed Riparian Buffers. Specific land use regulations and restrictions apply within the boundaries of these protected areas. If you are considering any kind of work on this property, including clearing vegetation, paving, grading, or building, please consult with the Town Planning Department to determine the possible extent of the Resource Conservation District (RCD) and Jordan Lake Watershed Riparian Buffer on this property and the applicable corresponding regulations.

This stream determination will remain in effect for five years from the date of the site visit, after which a new stream determination with site visit will be required.

In accordance with the Town's procedures, you may appeal this administrative decision to the Town Manager. If you wish to do so, you must file your written appeal accompanied by any materials you believe support your appeal, within **30 days** of receipt of this letter.

If you have questions regarding stream determinations, please contact me at (919) 969-7202 or aweakley@townofchapelhill.org. If you have questions regarding the Town's Resource Conservation District (RCD) or the Jordan Watershed Riparian Buffer regulations, please contact the Planning Department at (919) 968-2728, or view information online at: aweakley@townofchapelhill.org. If you have questions regarding the Town's Resource Conservation District (RCD) or the Jordan Watershed Riparian Buffer regulations, please contact the Planning Department at (919) 968-2728, or view information online at: http://www.townofchapelhill.org/town-hall/departments-services/public-works/stormwater-management/regulations-ordinances.

Regards,

Allison Schwarz Weakley Stormwater Analyst

AllisonWeakley



PUBLIC WORKS DEPARTMENT STORMWATER MANAGEMENT DIVISION

405 Martin Luther King, Jr. Blvd. Chapel Hill, NC 27514-5705 Telephone (919) 969-7246 Fax (919) 969-7276 www.townofchapelhill.org

STREAM DETERMINATION SITE VISIT RESULTS

Property Information	
Parcel ID Number (PIN)	Address / Location Description
9789-35-9617	850 N. Estes Drive
These are the results of a site visit to conducted on 11/19/2018 by Town Sta	o the properties listed above for a stream determination aff:
No perennial, intermittent, or ephonon or near the property(ies) in questic	nemeral streams or perennial waterbodies were identified on.
igttiee Perennial, intermittent, or ephemory or near the property(ies) in question a	eral streams, or perennial waterbodies, were identified on and shown on the attached map(s).
Riparian Buffers, and their approxim	Town flow classifications, presence of Jordan Watershed nate locations is attached. Origins or breakpoints that marked on the map. Stream classification forms and re also attached.
Other conditions exist which may affo Jordan Watershed Riparian Buffer:	ect the location of the Resource Conservation District or
	e area. Precise location of the Base Flood Elevation and trict must determined by a field survey commissioned by
	tent stream are piped in the area, as shown on the map. ated Jordan Watershed Riparian Buffer.
	have been identified in the area. A formal review by a all Wetland Delineation is recommended if impacts to
AllisonWeakley	
°own Staff Signature	
25	

