



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits
(along with corresponding Water Quality Certifications)

September 29, 2018 Ver 3

Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf>

A. Processing Information

County (or Counties) where the project is located:*

Carteret

Onslow

Is this project a public transportation project?*

Yes No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

Is this a NCDOT Project?*

Yes No

(NCDOT only) T.I.P. or state project number:

M-0540

WBS #*

49083.1.1

(for NCDOT use only)

1a. Type(s) of approval sought from the Corps:*

Section 404 Permit (wetlands, streams and waters, Clean Water Act)

Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

1b. What type(s) of permit(s) do you wish to seek authorization?*

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

This form may be used to initiate the standard/individual permit process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that are not provided in the E-PCN can be added to the miscellaneous upload area located at the bottom of this form.

1c. Has the NWP or GP number been verified by the Corps?*

Yes No

Nationwide Permit (NWP) Number:

6 - Survey Activities

NWP Numbers (for multiple NWPS):

List all NW numbers you are applying for not on the drop down list.

1d. Type(s) of approval sought from the DWR:*

check all that apply

401 Water Quality Certification - Regular

Non-404 Jurisdictional General Permit

Individual Permit

401 Water Quality Certification - Express

Riparian Buffer Authorization

1e. Is this notification solely for the record because written approval is not required?

*

For the record only for DWR 401 Certification:

Yes No

For the record only for Corps Permit:

Yes No

1f. Is this an after-the-fact permit application?*

Yes No

1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?

If so, attach the acceptance letter from mitigation bank or in-lieu fee program

Yes No

Acceptance Letter Attachment

Click the upload button or drag and drop files here to attach document

FILETYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? *

Yes No

1i. Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

Yes No Unknown

1j. Is the project located in a designated trout watershed? *

Yes No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

B. Applicant Information

1a. Who is the Primary Contact? *

NCDOT

1b. Primary Contact Email: *

jlilday@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx
(919)707-6111

1d. Who is applying for the permit? *

Owner Applicant (other than owner)
(Check all that apply)

1e. Is there an Agent/Consultant for this project? *

Yes No

2. Owner Information

2a. Name(s) on recorded deed: *

NCDOT

2b. Deed book and page no.:

2c. Responsible party:

(for Corporations)

2d. Address *

Street Address

1000 Birch Ridge Drive

Address Line 2

City

Raleigh

Postal / Zip Code

27610

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6000

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

NC 24 Resiliency and Living Shoreline (M-0540A)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

2. Project Identification



2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Latitude: *

34.684900
ex: 34.208504

Longitude: *

-77.114635
-77.796371

3. Surface Waters

3a. Name of the nearest body of water to proposed project: *

White Oak River/Intercoastal Waterway

3b. Water Resources Classification of nearest receiving water: *

SA, HQW upstream of NC 24 bridges, SC downstream of bridges

[Surface Water Lookup](#)

3c. What river basin(s) is your project located in? *

White Oak

3d. Please provide the 12-digit HUC in which the project is located. *

03020010206 upstream, 030203010304 downstream

[River Basin Lookup](#)

4. Project Description and History

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: *

The project study area is comprised of maintained road causeway and natural areas with wetlands or open water on either side of the causeway along with some residential and commercial development.

4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past? *

Yes No Unknown

4d. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

4e. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

4f. List the total estimated acreage of all existing wetlands on the property:

10.5

4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial)

250

4h. Explain the purpose of the proposed project: *

The purpose of the project is to conduct subsurface investigations for the installation of a living shoreline and the associated breakwater devices.

4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: *

Thirteen borings will be advanced from the marsh buggy (low ground pressure tracked rig) deck in the approximate dropped pin locations shown on the attached figure. All borings may or may not be in standing water at the time of investigation.

4j. Please upload project drawings for the proposed project.

[Click the upload button or drag and drop files here to attach document](#)

M-0540A Swansboro Geotech borings.pdf

3.52MB

File type must be pdf

5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas? *

Yes No Unknown

Comments:

5b. If the Corps made a jurisdictional determination, what type of determination was made? *

Preliminary Approved Not Verified Unknown N/A

Corps AID Number:

Example: SAW-2017-99999

5c. If 5a is yes, who delineated the jurisdictional areas?

Name (if known):

Agency/Consultant Company:

Other:

5d1. Jurisdictional determination upload

Click the upload button or drag and drop files here to attach document

File type must be PDF

6. Future Project Plans

6a. Is this a phased project? *

Yes No

7b. If yes, explain.

This permit application is for investigative work that will require future authorization from the USACE, NCDWR, and NCDWM for living shoreline construction.

Construction of the living shorelines along NC 24 in Swansboro and Cedar Point will result in enhancement of existing saltwater marsh and creation of new marsh. The wavebreak structure will provide wave energy dissipation as well as providing hard substrate for potential oyster habitat. In combination, the living shoreline will provide multiple habitat types for marine species as well as providing wave energy dissipation for NC 24 resulting in a more resilient transportation facility.

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

For the actual living shoreline project, it is anticipated that a NCDWM major development permit will be required. Approval from the USACE and the NCDWR will also be required.

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

Wetlands Streams-tributaries Buffers Open Waters Pond Construction

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Site # (*) (?)	4a1. Impact Reason	4b. Impact type (*) (?)	4c. Name of waterbody (?)	4d. Activity type *	4e. Waterbody type *	4f. Impact area *
1	Geo. Borings	T	White Oak River/Intercoastal Waterway	Other	Estuary	0.01 (acres)

4g. Total temporary open water Impacts:

0.01

4g. Total permanent open water impacts:

0.00

4g. Total open water impacts:

0.01

4h. Comments:

Approximate impact due to geotechnical borings is 2.55 sq ft.

E. Impact Justification and Mitigation

1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: *

Thirteen borings will be advanced from the marsh buggy (low ground pressure tracked rig) deck in the approximate dropped pin locations shown on the attached figure.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques:*

Borings will be advanced using the mud rotary method; this method involves setting a piece of 4" to 6" diameter casing between the drill rig and the river bed/floodplain to contain the drilling fluid and cutting returns. All soil samples, drilling fluid and cutting returns are disposed of off-site. Geotechnical soil borings will be advanced in the streambed of the White Oak River adjacent to Bridge Nos. 25 and 30 and the NC 24 causeway to determine foundation criteria for the proposed rock sill structures or rock embankment.

2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

Yes No

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

Impacts due to the proposed work does not constitute a permanent impact or loss of "Waters of the U.S."

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's [RIBITS](#) website.

F. Stormwater Management and Diffuse Flow Plan (required by DWR)

*** Recent changes to the stormwater rules have required updates to this section. ***

1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

Yes No

For a list of options to meet the diffuse flow requirements, click [here](#).

If no, explain why:

All work will be in open waters.

2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250?*

Yes No

2b. Does this project meet the requirements for low density projects as defined in 15A NCAC 02H .1003(2)?*

Yes No

To look up low density requirement click here [15A NCAC 02H .1003\(2\)](#).

Comments:

G. Supplementary Information

1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?*

Yes No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?*

Yes No

Comments:*

A CE may be prepared for the actual living shoreline project, though this has not be determined at this point.

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)?*

Yes No

3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?*

Yes No

3b. If you answered "no," provide a short narrative description.

This action will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.

4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? *

Yes No N/A

5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area with federally protected species or habitat? *

Yes No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? *

Yes No

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

5d. Is another Federal agency involved? *

Yes No Unknown

What Federal Agency is involved?

NOAA-NMFS

5e. Is this a DOT project located within Division's 1-8? *

Yes No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? *

N.C. Natural Heritage Program database; USFWS-Raleigh Field Office website; biological surveys for protected species listed for Onslow and Carteret Counties, which include American alligator, green sea turtle, hawksbill sea turtle, Kemp's ridley sea turtle, leatherback sea turtle, loggerhead sea turtle, piping plover, red-cockaded woodpecker, red knot, West Indian manatee, Cooley's meadowrue, golden sedge, pondberry, rough-leaved loosestrife, seabeach amaranth, roseate tern and shortnose sturgeon. Foraging habitat is present for many of the sea turtle species. Conversations with the NMFS confirms that the geotechnical work would have "No Effect" on sea turtles. Foraging habitat is available in the form of tidal flats for the Rufa red knot, piping plover and roseate tern. Concurrence from USFWS for a biological conclusion of "May Effect, Not Likely to Adversely Affect" was received on March 4, 2020. All other protected species listed received biological conclusions of "No Effect", due to suitable habitat not being present.

Consultation Documentation Upload

[Click the upload button or drag and drop files here to attach document](#)

20200304_itr_USFWS_NCDOT_M-0540A.pdf

36.05KB

File type must be PDF

6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? *

Yes No

Are there submerged aquatic vegetation (SAV) around the project vicinity? *

Yes No Unknown

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? *

NOAA EFH mapper

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpweb/>)

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? *

Yes No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources? *

All work will be done in open water adjacent to man-made causeways and bridges.

7c. Historic or Prehistoric Information Upload

[Click the upload button or drag and drop files here to attach document](#)

File must be PDF

8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain? *

Yes No

8b. If yes, explain how project meets FEMA requirements:

NCDOT Hydraulics Unit coordination with FEMA.

8c. What source(s) did you use to make the floodplain determination? *

Miscellaneous



Comments

Miscellaneous attachments not previously requested.

[Click the upload button or drag and drop files here to attach document](#)

File must be PDF or KMZ

Signature



*

By checking the box and signing below, I certify that:

- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name:*

Mack Christopher Rivenbark, III

Signature

Mack C. Rivenbark, III

Date

3/5/2020



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh ES Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726
March 4, 2020



Philip S. Harris III, P.E.
NC Department of Transportation
Environmental Analysis Unit
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

This letter is in response to your letter of February 28, 2020 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusion of the North Carolina Department of Transportation that the proposed geotechnical borings associated with the living shoreline project on NC 24 in Onslow and Carteret Counties (STIP No. M-0540A) may affect, but are not likely to adversely affect the federally threatened piping plover (*Charadrius melodus*), red knot (*Calidris canutus rufa*), and roseate tern (*Sterna dougallii dougallii*). The following response is provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

Although foraging habitat is present at the project site at low tide for the aforementioned species, the probability of any being present at the time of work is low. Even if the species are present, the level of disturbance will likely be discountable. Based on available information, the Service concurs with your conclusion that the proposed action may affect, but is not likely to adversely affect the piping plover, red knot, and roseate tern. We believe that the requirements of Section 7(a)(2) of the ESA have been satisfied. We remind you that obligations under Section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered in this review; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by this identified action.

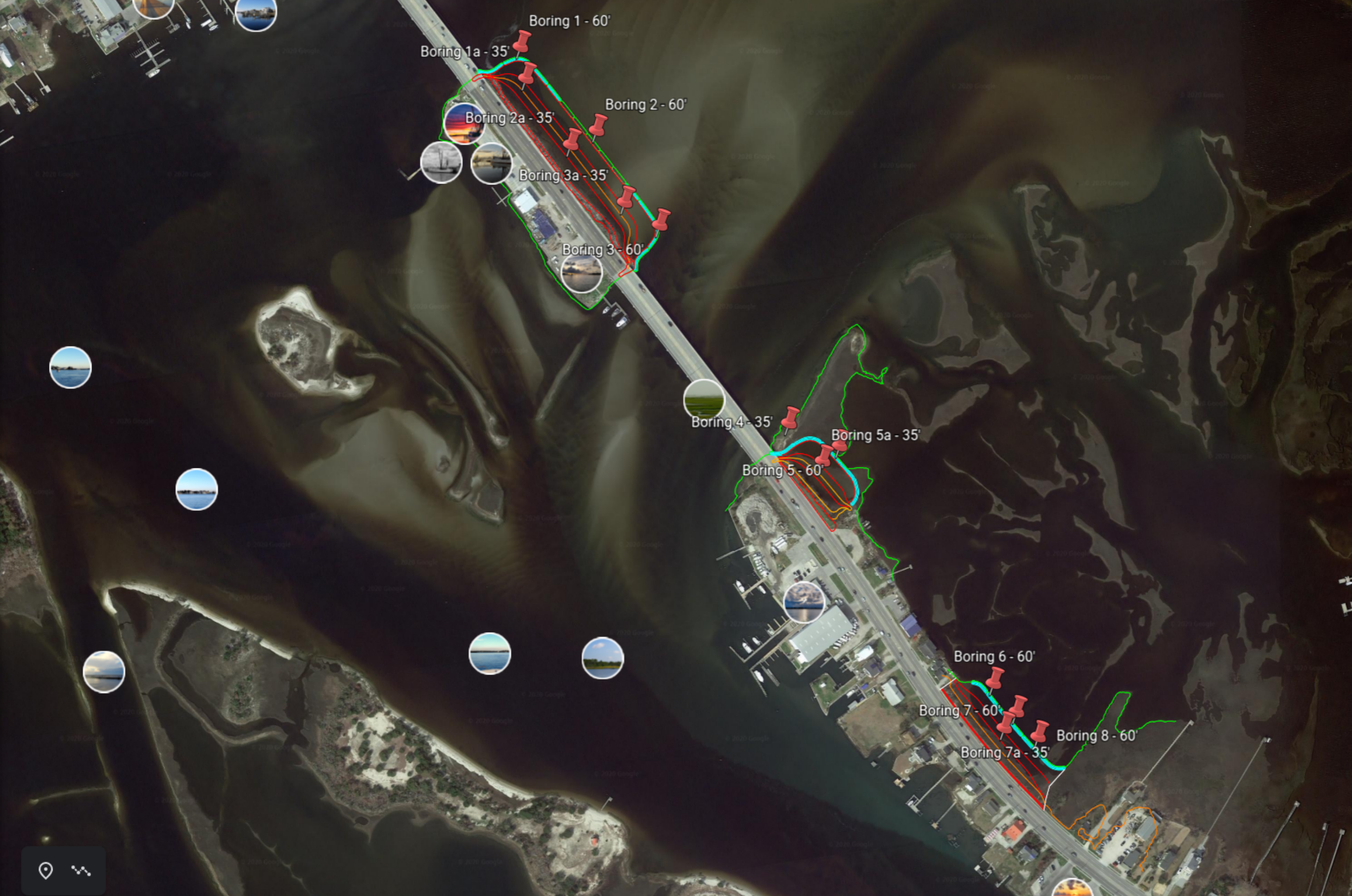
The Service appreciates the opportunity to review this project. If you have any questions regarding our response, please contact Mr. Gary Jordan at (919) 856-4520 (Ext. 32).

Sincerely,


for Pete Benjamin
Field Supervisor

Electronic copy:

Chris Rivenbark, NCDOT, Raleigh, NC
Jason Dilday, NCDOT, Raleigh, NC
Brad Shaver, USACE, Wilmington, NC
Travis Wilson, NCWRC, Creedmoor, NC



Boring 1 - 60'

Boring 1a - 35'

Boring 2 - 60'

Boring 2a - 35'

Boring 3a - 35'

Boring 3 - 60'

Boring 4 - 35'

Boring 5a - 35'

Boring 5 - 60'

Boring 6 - 60'

Boring 7 - 60'

Boring 7a - 35'

Boring 8 - 60'

