March 19, 2024

Ms. Jennie Turner Planner II Currituck County Planning & Zoning Currituck Historic Courthouse 153 Courthouse Road, Suite 110 Currituck, North Carolina 27929

Re: Major Site Plan – Resubmission of Previously Approved Application Package
The Donal C. O'Brien, Jr. Sanctuary and Audubon Center
Ping Island, Compiler Committee In Country NG

Pine Island, Corolla, Currituck County, NC

Dear Ms. Turner;

On behalf of The Audubon Society, Inc., we hereby submit for review and approval a Currituck County Major Site Plan Application package for the aforementioned project. This is the same package as was previously approved by Currituck County on March 13, 2015, with the noted exceptions.

The following items are included with and shall be considered part of this submittal package:

- 1. Application Fee Check in the Amount of \$1,024.10 (\$.10/sf GFA x 10,241 sf)
- 2. . .pdf copies of Application Package consisting of the following:
 - Submission Table of Contents
 - Summary of changes from Prior Approval
 - Major Site Plan Application
 - Currituck County Stormwater Management Application:
 - o Major Stormwater Plan Form SW-002
 - Stormwater Management Plan Narrative (Currituck County Submittal)
 - Water Main Extension Authorization to Construct & Engineering Plans Approval (Serial No. 24-0087)
 - On-Site WW System Approvals:
 - o Permit #139675 (1913 Lodge)
 - o Permit #392772 (Dining Hall)
 - o Permit #392767 (Guide's Quarters)
 - o Permit #249749 (Pavilion)
 - NCDENR Stormwater Management Permit Application Package:
 - o NCDEQ SWM Permit #SW7141103
 - o SWM Permit Application Form
 - o Low Density Supplement
 - NCDENR E&S Control Application Package:
 - o NCDEQ E&S Approval Curri-2024-0101
 - o Financial Responsibility Form
 - CAMA Permit
 - Civil Plans (24" x 36"):
 - o C1.0: Existing Conditions Plan
 - o C1.1-1.2: Site Plan & Details
 - o C2.0-2.1: Grading & Drainage Plan & Details
 - o C3.0-3.3: E&S Plan & Details
 - o C4.0-4.9: Utility Plans

- Architectural Plans (24" x 36"):
 - o Dining Hall Architectural Plans
 - o Guide's Quarters Architectural plans
 - o Lodge Building Architectural Plans
 - Pavilion Architectural Plans

At your earliest convenience, please review the attached information for compliance. If you have any questions, or if you require any additional information, please do not hesitate to contact me at (252) 202-3803.

Sincerely,

David A. Deel, P.E.

Encl: as stated

CC: Audubon Society, Inc.

Table of Contents

Major Site Plan Application Package – 3/19/2024 Re-Submission **The Donal C. O'Brien, Jr. Sanctuary and Audubon Center** Pine Island, Corolla, Currituck County, NC

(**Page numbering reflects page # within .pdf pkg as submitted)

- Submission Table of Contents (This Page Pg 3 of .pdf)
- Summary of changes from Prior Approval (Pg 4)
- Major Site Plan Application (Pgs 5-8)
- Currituck County Stormwater Management Application:
 - o Major Stormwater Plan Form SW-002 (Pgs 9-11)
 - o Stormwater Management Plan Narrative (Currituck Co. Submittal) (Pgs 12-54)
- Water Main Extension Authorization to Construct & Engineering Plans Approval (Serial No. 24-0087) (Pgs 55-57)
- On-Site WW System Approvals:
 - o Permit #139675 (1913 Lodge) (Pg 58)
 - o Permit #392772 (Dining Hall) (Pg 59)
 - o Permit #392767 (Guide's Quarters) (Pgs 60-63)
 - o Permit #249749 (Pavilion) (Pgs 64-65)
- NCDENR Stormwater Management Permit Application Package:
 - o NCDEQ SWM Permit #SW7141103 (Pgs 66-70)
 - o SWM Permit Application Form (Pgs 71-76)
 - o Low Density Supplement (Pgs 77-79)
- NCDENR E&S Control Application Package:
 - NCDEO E&S Approval Curri-2024-0101 (Pgs 80-81)
 - o Financial Responsibility Form (Pgs 82-84)
- CAMA Permit (Pg 85)
- Civil Plans (24" x 36"): (Pgs 86-106)
 - o C1.0: Existing Conditions Plan
 - o C1.1-1.2: Site Plan & Details
 - o C2.0-2.1: Grading & Drainage Plan & Details
 - o C3.0-3.3: E&S Plan & Details
 - o C4.0-4.9: Utility Plans
- Architectural Plans (24" x 36"):
 - o Dining Hall Architectural Plans (Pgs 107-137)
 - o Guide's Quarters Architectural plans (Pgs 138-157)
 - o Lodge Building Architectural Plans (Pgs 158-200)
 - o Pavilion Architectural Plans (Pgs 201-219)

Pine Island Audubon County Submission March 19, 2024

Changes from previous County Approval:

- Cottages: Two Southern Cottages have been renovated per the original plan approval and are shown simply as "Existing"
- Cottages: Northern Cottage originally shown as "To be Renovated" has instead been demolished. This cottage has been removed from the plan.
- Cottages: Asphalt turn-around improvements from original plans have been completed and are simply shown as existing.
- Workshop / Laboratory: Plans for this building have been abandoned. Accordingly, the
 workshop building, associated parking, associated walkways, and associated utilities have been
 removed from the plan.
- Workshop / Laboratory Area: Asphalt pavement has been shortened and replaced with gravel.
 Asphalt turn-around at the driveway intersection remains. A Fire Hydrant has been proposed to serve this area.
- Impoundment / Pond: Being coordinated with CAMA, the connection to the sound will be open ditch instead of pipe.
- Existing Garage to be Converted to Open Air Screened Pavilion: This is partially complete. This item remains on Site Plan.
- Existing Guide's Quarters to be Renovated: "/Replaced" has been added to the notation.
- Drainfields: Proposed drainfield locations have been revised to move them closer to the hunt club buildings.
- Proposed Landscape Berm & Trellis (south of Hunt Club Bldg): These have been removed. Their
 original intent was to provide a buffer between the Hunt Club and a future parking lot but the
 Audubon Society no longer anticipates that the parking lot will ever be built.



Property Owner(s)/Applicant

Major Stormwater Plan Form SW-002

OFFICIAL USE ONLY:					
Permit Number:					
Date Filed:					
Date Approved:	_				

Contact Informa	ation					
APPLICANT:		PROPERTY OW	NER:			
Name:	National Audubon Society, Inc.	Name:	Same as Applicant			
Address:	225 Varick St., Floor 7	Address:				
	New York, NY 10014-4396					
Telephone:	Contact Robbie Fearn 252-256-2825	Telephone:				
E-Mail Address:	: rfearn@audubon.org	E-Mail Address:				
Property Inform	nation					
	Address: 305 Audubon Drive, Corollo	ı, NC 27927				
Parcel Identifica	ation Number(s): _9942-59-0885					
FEMA Flood Zoi						
Request						
Project Descript	tion:Residential Retreat (Birdwatching	Retreat) - See Narra	tive for Specific Description			
Total land distu	rbance activity: 243,275 sf	Calculated volu	me of BMPs: 25,491 cf sf			
Maximum lot co	overage: 191,441 sf	Proposed lot co	verage: 94,740 sf			
TYPE OF REQUI	<u>EST</u>					
□ Major s	subdivision (10-year, 24-hour rate)					
🛚 Majors	site plan (5-year, 24-hour rate)					
	TO CALCULATE PEAK DISCHARGE					
	al Method Method (TR-55 and TR-20)					
	volume calculation for small sites (less	than 10 acres)				
•	itive stormwater runoff storage analys	•				
	ream drainage capacity analysis					
I hereby authorize county officials to enter my property for purposes of determining compliance. All information submitted and required as part of this process shall become public record.						

Major Stormwater Plan SW-002

Page 2 of 4

M	gior	Stormwo	ter Plan	Design	Standard	s Checklist
/Y\	uiui	SIOIIIIWC	nei riun	Desidii	Junuale	2 CHECKIISI

The table below depicts the design standards of the major stormwater plan application. Please make sure to include all applicable listed items to ensure all appropriate standards are reviewed.

Major Stormwater Plan

Design Standards Checklist

Date	Received:	
Proje	ect Name: The Donal C. O'Brien, Jr. Santuary and Audubon Center	
Appl	licant/Property Owner:National Audubon Society, Inc.	
Min	or Stormwater Plan Design Standards Checklist	THE STATE
	General	
1	Property owner name and address.	1
2	Site address and parcel identification number.	V
3	North arrow and scale to be 1" = 100' or larger.	1
	Site Features	
4	Scaled drawing showing existing and proposed site features: Property lines with dimensions, acreage, streets, easements, structures (dimensions and square footage), fences, bulkheads, septic area (active and repair), utilities, vehicular use areas, driveways, and sidewalks.	~
5	Approximate location of all designated Areas of Environmental Concern (AEC) or other such areas which are environmentally sensitive on the property, such as Maritime Forest, CAMA, 404, or 401 wetlands as defined by the appropriate agency.	/
6	Existing and proposed ground elevations shown in one foot intervals. All elevation changes within the past six months shall be shown on the plan.	V
8	Limits of all proposed fill, including the toe of fill slope and purpose of fill.	
9	Square footage of all existing and proposed impervious areas (structures, sidewalks, walkways, vehicular use areas regardless of surface material), including a description of surface materials.	V
10	Existing and proposed drainage patterns, including direction of flow.	
11	Location, capacity, design plans (detention, retention, infiltration), and design discharge of existing and proposed stormwater management features.	~
12	Elevation of the seasonal high water level as determined by a licensed soil scientist.	NA
13	Plant selection.	1
	Permits and Other Documentation	
14	NCDENR stormwater permit application (if 10,000sf or more of built upon area).	1
15	NCDENR erosion and sedimentation control permit application (if one acre or more of land disturbance).	V
16	NCDENR coastal area management act permit application, if applicable.	~
17	Stormwater management narrative with supporting calculations.	~

18 Rational Method Form SW-003 or NRCS Method Form SW-004

Detailed maintenance plan for all proposed BMPs.

analysis, if applicable

Alternative stormwater runoff storage analysis and/or downstream drainage capacity

20 Design spreadsheets for all BMPs (Appendix F – Currituck County Stormwater Manual).

	Certificate	19.24
22	The major stormwater plan shall contain the following certificate:	T
	I,, owner/agent hereby certify the information included on this and attached pages is true and correct to the best of my knowledge.	190
·	On the plan entitled, stormwater drainage improvements shall be installed according to these plans and specifications and approved by Currituck County. Yearly inspections are required as part of the stormwater plan. The owner is responsible for all maintenance required. Currituck County assumes no responsibility for the design, maintenance, or performance of the stormwater improvements. Date: Owner/Agent:	
Majo	or Stormwater Plan Submittal Checklist	
all c	f will use the following checklist to determine the completeness of your application. Please make of the listed items are included. Staff shall not process an application for further review un ermined to be complete.	
	ajor Stormwater Plan Form SW-002 omittal Checklist	
	Received:	
Proje	ect Name: The Donal C. O'Brien, Jr. Santuary and Audubon Center	
Арр	licant/Property Owner:National Audubon Society, Inc.	
M -:	or Stormwater Plan Form SW-002 Submittal Checklist	
1	Completed Major Stormwater Plan Form SW-002	1./
2	Completed Rational Method Form SW-003 or NRCS Method Form SW-004	NIA
3	Stormwater plan	1
4	NCDENR permit applications, if applicable	V
5	3 copies of plans	N/A
6	3 hard copies of ALL documents	NZA
7	1 PDF digital copy of all plans AND documents (ex. Compact Disk — e-mail not acceptable)	W/
Com	nments	

Stormwater Management Plan Narrative

The Donal C. O'Brien Jr.: Sanctuary & Audubon Center Currituck County Submittal Revised February 26, 2024

Summary of Revised Stormwater Plan Narrative

The following narrative is a copy of the narrative which was originally approved by Currituck County on March 13, 2015, with minor reductions to impervious coverage due to originally proposed items being removed from the plan. An NCDEQ low density stormwater permit was issued, restricting the property to 24% maximum impervious coverage, and the revised proposal continues to conform to this NCDEQ Permit. Currituck County Stormwater requirements were met via Alternative Compliance due to the entirety of the developed area being located in the interior of an extremely large property and draining within the property to Currituck Sound, with no impacts to offsite properties. The original Alternative Compliance conditions remain unchanged, with a slight decrease in impervious coverage from the original approval. The following narrative has been adjusted to reflect the reduced impervious coverage now proposed. Calculations in the Appendices still reflect the original proposed impervious coverage – these calculations should now be deemed to be conservative since the newly proposed coverage is reduced compared to the original calculations.

General

The following narrative will detail the proposed stormwater management plan for the renovation and expansion of the existing Donal C. O'Brien Jr. Sanctuary & Audubon Center located in the Pine Island part of Currituck's Outer Banks (southern Corolla). As per state regulations, a low density stormwater permit has been issued, restricting the property to 24% maximum impervious coverage (see Allowable Lot Coverage Calculation in Appendix A of this Narrative).

Adequate Outfall

The entirety of the project area either drains to isolated on-site areas between dunes or drains to Currituck Sound via overland flow through wetlands, overland flow into an interconnected impoundment, or overland flow to the existing canal. No off-site drainage flows through the project area or shares any existing conveyances. Therefore, the existing conditions comply with the Currituck County Stormwater Ordinance requirements in that existing and proposed improvements have no impact on offsite conveyances or offsite drainage and adequate existing outfall exists (Currituck Sound).

Due to the existing adequate outfall (project drains directly to Currituck Sound), stormwater improvements are not required for purposes of compliance with the Currituck County Stormwater Ordinance. Regardless, some stormwater management improvements are proposed in the interest of best practices. To that extent, the explanation of the infiltration system proposed for Drainage Area 2 is provided for reference only and additional Currituck County Supplements / paperwork are not provided.

Existing Conditions

The Donal C. Obrien Jr. Sanctuary & Audubon Center consists of a total of approximately 2,700 acres of land located along the west side of NC 12 north of the Sanderling Inn (behind the airstrip) and including islands within the Currituck Sound as well as some lands on the west side of Currituck Sound. This property was once a part of the Pine Island hunt club, and the club's Lodge building and outbuildings remain on the property and have been used in recent years by the Audubon Society as offices for their local caretakers. This existing Lodge and outbuildings are the focus of this proposed project. The existing property contains approximately 75,928 sf of impervious coverage (includes compacted sand roadway from Lodge to soundfront docks – does not include compacted sand roadway north of the west end of Clarion Loop). There is currently no stormwater management infrastructure. Impervious areas are "disconnected" and drain directly to surrounding open space for infiltration and sheet flow conveyance to surrounding wetlands.

Proposed Conditions

It is the desire of the Audubon Society to update the historic Lodge and outbuildings to provide an outreach facility for their donors and the public. This will involve the renovation of the historic lodge, renovation of the existing guide's quarter's for use as a residential retreat, renovation of three existing residences, replacement of the existing caretaker's residence with a dining hall in the same footprint, renovation of several existing service buildings / garages, the addition of a workshop, and new utility and fire access infrastructure. The existing impoundment located to the west/northwest of the Lodge will also be re-graded to "naturalize" the perimeter of the impoundment. Currently proposed plans result in a total impervious coverage of 83,842 sf with an additional 10,898 sf of permeable pavements. Permeable pavement systems with subsurface storage gravel beds are proposed for the proposed fire access lane (grasspave) and Lodge parking lot (permeable concrete). No other stormwater management infrastructure is proposed. Impervious areas will be "disconnected" and are proposed to drain directly to surrounding open space for infiltration and sheet flow conveyance to surrounding wetlands. In accordance with NCDENR rules, a Low-Density Stormwater Permit will be obtained to cover this proposed project. This project, as proposed, is consistent with Low Impact Development methods and principles.

Future Plans

The National Audubon Society's potential ultimate plans include the construction of a Visitor's Center and public parking lot in a field to the south of the Lodge. Funding for this phase is not currently available and it is not anticipated that the Visitor's Center would be built within the next 5 years. Since detailed plans for the Visitor's Center are not yet available, an allotment of 90,000 sf of impervious area is included in the coverage calculations to allow for this future development.

Parcel Area

Audubon's Pine Island Preserve consists of approximately 2,733 acres of land along Currituck County's Outer Banks, including marsh islands in Currituck Sound and (presumably) some submerged lands. This 2,733 acres is a conglomerate of different parcels that have been acquired by Audubon over the years. All proposed development is located within the confines of one large parcel (383.58 acres per the legal description) as well as the entirety of the small subdivision known as "Pine Island Estates." For the purpose permitting and calculations, the "Parcel Area" will be defined as the single large parcel (DB 913, PG 150) and the small subdivision (Pine Island Estates, DB 1229, PG 200, PC A, SL 170). For calculation purposes, the GIS measured area for these parcels will be used rather than the legal description area (GIS measured areas are smaller), yielding a total Parcel Area of 353.97 acres.

Project Area

The "Project Area," as defined by NCDENR is calculated as follows:

Parcel Area: 353.97 ac.

Coastal Wetland Area: 153.9 ac. Surface Waters Area: 8.2 ac.

Project Area = Parceal Area – Coastal Wetlands – Surface Waters = 191.87 ac.

Wetlands Note: Due to the small footprint of the developed area relative to the overall parcel size, wetlands have only been field delineated and confirmed for the areas in proximity to the proposed development (see site plans / grading plans for field delineated wetland). For the purposes of calculating Project Area and coverage calculations, wetland limits have been estimated from aerial photography. This is reasonable due to the fact that the regulated area (coverage) will be a small fraction of what is allowed due to the massive size of the property.

Watershed Classification

The project fronts on and drains to Currituck Sound, which is classified as having SC waters. The project is being permitted accordingly with a maximum built-upon-area of 24%.

Low Density Calculations

Calculations requested on the Low Density Supplement sheet have been provided in the Appendix. The proposed project presented on the revised Plans will result in a total Built-Upon-Area (BUA) of 94,740 sf (permeable pavements are included in calculation as BUA without any credits taken). An additional 90,000 sf is allotted in the permit application to cover future development of a Visitor's Center for a total permit coverage of 184,740 sf, or 2.21% coverage.

Although BMP sizing and calculations are not required as part of a low-density stormwater permit, runoff and storage calculations prepared for Currituck County are provided in the Appendix of this narrative for reference and a discussion of these calculations is provided below:

Stormwater Collection, Treatment, Storage, and Disposal

Although NCDENR requirements do not dictate the installation of BMP's, infiltration systems are proposed to comply with Currituck County's Stormwater Management Ordinance. The following section provides a description of the functioning of these basins for informational purposes only. The area of proposed work can be delineated into two distinct drainage areas:

Drainage Area 1

Drainage Area 1 is an area located in the high dunes in the northeast of the project's developed area containing two of the three "cottages" to be renovated. New impervious coverage within this drainage area will consist entirely of a re-shaping of the asphalt "tee" in front of the cottages in order to accommodate fire apparatus turn-around. This drainage area does not accept any off-site runoff. Due to the "duneland" topography and soils, runoff is primarily infiltrated into the sandy fringe along impervious surfaces. Excess runoff, if it were to occur, would collect in the undeveloped low area between the dunes in the east-middle part of the drainage area. There is no physical evidence indicating that this is a regular occurrence. Due to the Drainage Area not accepting off-site runoff, not contributing any downstream runoff, and the existence of a natural infiltration area, no new stormwater improvements are proposed.

Collection

The stormwater runoff sheet flows to the fringes of impervious areas for infiltration. In the event that a storm produces runoff beyond the capacity of the fringe areas, the runoff will flow overland to low areas located between the dunes in the east-middle part of the drainage area.

<u>Treatment</u>

The existing wooded low area within Drainage Area 1 will serve as an infiltration basin and will offer several methods of stormwater runoff treatment prior to release. Runoff from developed areas will enter the infiltration basin via sheet flow over landscaped areas. Large particulates and debris will be trapped by the vegetation and initial infiltration will occur in these locations.

The basin will be remain wooded with a natural sand subgrade. The runoff will undergo filtration of fine particulates and pollutants by the existing vegetation within the basin bottom. The filtration by the vegetation is considered the primary treatment method for the entire system. A secondary treatment method is also available when the stormwater runoff infiltrates into the subsurface. When the water passes through the void spaces between the particles of soil material particulates and pollutants that have a particle or grain size larger than the void size will be filtered out. In addition some pollutants will adsorb to the surface of the soil particles. The

benefit of this adsorption will prevent the pollutants from reaching the water table and in some nutrient and microbe rich areas existing within the subsurface the pollutants will be consumed as food and undergo a natural biodegradation.

Storage

Currituck County's Stormwater Ordinance requires that the runoff rate from the 10-yr, 24-hr storm in the post-construction condition not exceed the runoff rate from the 2-yr, 24-hr storm in the pre-constructed, fully wooded condition. In the case of a drainage area without an outfall or discharge point, this requirement becomes full storage of the 10-yr, 24-hr storm in the post-construction condition. The total runoff generated by the 10-yr, 24-hr storm for the post-construction condition was calculated utilizing a modified rational formula to require 14,324 ft³ of storage. The proposed basin will provide 15,066 ft³ of storage. Detailed runoff and storage calculations can be found in the Appendix to this Narrative.

<u>Disposal</u>

The existing infiltration area is located in an area of negative drainage with no outfall. All stored runoff will be disposed of via infiltration into the existing rapid-infiltration subsoil. The existing sands demonstrate infiltration rates in excess of 20 inches per hour (see soil boring HA-5 in the GET Solutions Soils Report Excerpts in the Appendix). To provide a conservative result, an analysis was performed utilizing an infiltration rate of 2.0 inches per hour (1/10th the normal rate for the existing soils), and the system was found to draw-down in 14.4 hours under normal seasonal-high groundwater conditions.

Drainage Area 2

Drainage Area 2 consists of the "Main Campus" of the existing hunt club to the west/southwest of Drainage Area 1. The entirety of this area drains to Currituck Sound via overland flow through wetlands, overland flow into an interconnected impoundment, or overland flow to the existing canal. No off-site drainage flows through the drainage area or shares any existing conveyances. Therefore, the existing conditions comply with the Currituck County Stormwater Ordinance requirements in that existing and proposed improvements have no impact on offsite conveyances or offsite drainage. Stormwater improvements are not proposed for purposes of compliance with the Currituck County Stormwater Ordinance, but some stormwater management improvements are proposed in the interest of best practices. To that extent, the following explanation of the infiltration system proposed for Drainage Area 1 is provided for reference only.

Collection

Stormwater runoff will be allowed to flow from impervious surfaces into surrounding landscaped areas for filtration by vegetation and infiltration into the subsurface. Proposed impervious areas

will be "disconnected" such that there will not be a concentrating flow path or impervious flow path directly to the outfalls.

Additionally, the Fire Access Road through the middle of the site and the parking area adjacent to the Lodge will be constructed of permeable pavement systems. The Fire Access Road will be constructed of a Grasspave system with 12" gravel storage layer. The parking area will be constructed of permeable concrete with 12" gravel storage layer.

Treatment

The primary source of treatment will be filtration. When runoff sheet flows from "disconnected" impervious areas to landscape areas, large particulates are filtered out by the vegetation. The runoff is slowed, and a portion will infiltrate into the sandy soils.

The proposed infiltration basin within Drainage Area 2 will offer several methods of stormwater runoff treatment prior to release. Runoff from developed areas will enter the infiltration basin via sheet flow over landscaped areas or via a roadside swale. Large particulates and debris will be trapped by the vegetation and initial infiltration will occur in these locations. The filtration by the vegetation is considered the primary treatment method for the entire system. A secondary treatment method is also available when the stormwater runoff infiltrates into the subsurface. When the water passes through the void spaces between the particles of soil material particulates and pollutants that have a particle or grain size larger than the void size will be filtered out. In addition some pollutants will adsorb to the surface of the soil particles. The benefit of this adsorption will prevent the pollutants from reaching the water table and in some nutrient and microbe rich areas existing within the subsurface the pollutants will be consumed as food and undergo a natural biodegradation.

Runoff that falls directly on the permeable pavement systems, or flows across them from other sources, will be treated similarly. Initial filtration of large particulates occurs when runoff passes through the surface of permeable concrete or the grasspave system. Similar to the discussion above, vegetation in the grasspave system will provide initial filtration as well. Runoff is then stored in the gravel layer before passing through to the sandy subsurface where particulates are filtered out and adsorption occurs.

Storage

Due to the adequate, isolated outfall, there is not a specific storage requirement for Drainage Area 2. The following runoff and storage volumes, however, provide a sense of the adequacy and benefit of the proposed permeable pavement systems.

A 1.0 inch rainfall event was analyzed utilizing a modified rational method. The total runoff volume for the existing condition for a 1.0 inch rainfall event was calculated to be 5,590 cf. The total runoff volume for the proposed condition for a 1.0 inch rainfall event was calculated to be

10,621 cf. Therefore, the increase in runoff volume for a 1.0 inch rainfall event is calculated to be 5,031 cf.

Storage is provided within the 12" thick gravel storage layer supporting the permeable pavement systems (40% void space) as well as the underlying sandy soils (20% void space). Total storage capacity within the system is calculated to be 10,425 cf, or almost equivalent to the total runoff from the site in the post-construction condition and twice the increase in runoff volume between the pre-construction and post-construction conditions.

It should be noted that the permeable pavement systems will not capture and isolate the runoff volume from the entire site since that volume is spread out across the acreage of the entire site. What this system does do, however, is provide a system that isolates much of the runoff from the fire access road and the parking lot and does not contribute that runoff to the overland system.

Disposal

All stored runoff will be disposed of via infiltration into the existing rapid-infiltration subsoil. The existing sands demonstrate an infiltration rate of 1.65 inches per hour. To provide a conservative result, an analysis was performed utilizing an infiltration rate of 1.0 inches per hour and the system was found to draw-down in 12.0 hours under normal seasonal-high groundwater conditions.

Soils

An exhibit showing the SCS mapped soils for the site (as published on the Currituck County GIS) is included in the Appendix of this narrative for your reference. The Soils mapping shows three soil types within the developed area of the project site:

CoB – Corolla fine sand, moderately well drained, very rapid permeability

Dt – Duckston fine sand, poorly drained, rapid permeability

NeC – Newhan fine sand, excessively drained, very rapid permeability

Cu – Currituck mucky peat, poorly drained, moderate permeability

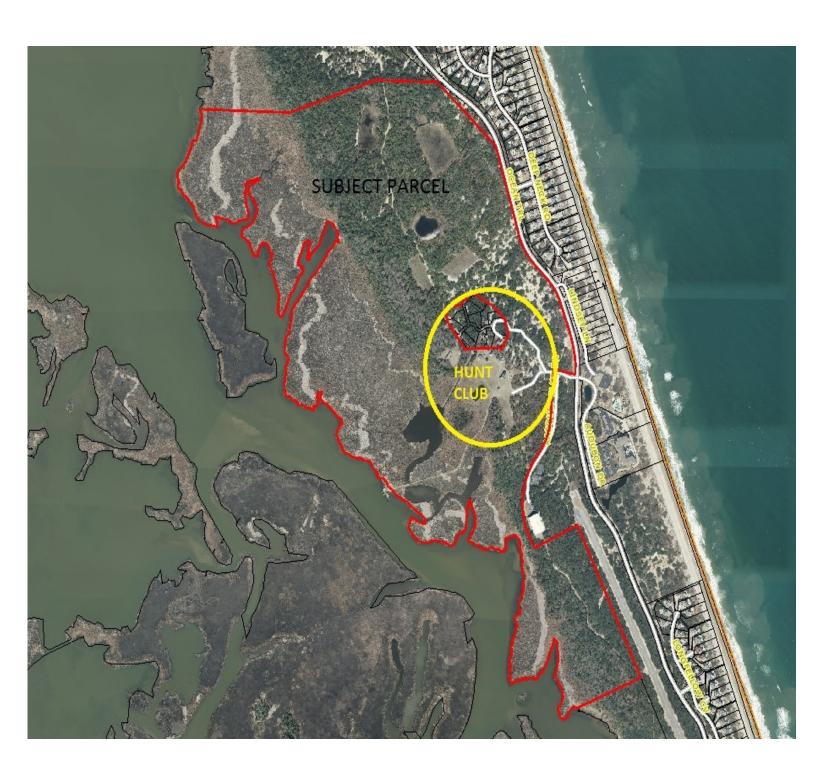
CrB – Corolla – Duckston Complex

The soils types noted above are generally consistent with what is found on-site, but the delineation on the SCS Soils Maps is somewhat coarse. The wetland delineation shown on the plans provides a better indication of the delineation between the Duckston and Currituck mucky peat and the other soil types.

GET Solutions, Inc. performed a field inspection of the soils. Pertinent excerpts from the field inspection report is included in the Appendix to this narrative.

APPENDIX A

Aerial Imagery



APPENDIX B

Soils Map & Field Investigation Report (Excerpts)





REPORT OF SUBSURFACE INVESTIGATION AND GEOTECHNICAL ENGINEERING SERVICES

The Donal C O'Brien Sanctuary & Audubon Center Pine Island, Corolla, North Carolina

G E T Project No: EC14-136G July 3, 2014

PREPARED FOR:



Pine Island, Corolla, North Carolina GET Project No: EC14-136G

All pavement material and construction procedures should conform to North Carolina Department of Transportation (NCDOT) requirements. Following pavement rough grading operations, the exposed subgrade should be observed under proofrolling. This proofrolling should be accomplished with a fully loaded dump truck or 7 to 10 ton drum roller to check for pockets of soft material hidden beneath a thin crust of better soil.

Additionally and as previously indicated, test pit excavations should be performed during the roadway subgrade evaluation procedures to further evaluate the FILL and/or Organic laden subsurface soils noted to occur at the boring locations. At that time subgrade improvement recommendations, if necessary, should be provided by the Geotechnical Engineer or his representative.

4.8 Storm Water Design Parameters:

Infiltration tests were performed at the location of borings HA-1, HA-2, and HA-5 at depths ranging from approximately 1 to 4.5 feet below existing grades due to the encountered water level depths of 1.5 to 5.75 feet. The boreholes were prepared utilizing an auger to remove soil clippings from the base. Infiltration testing was then conducted within the vadose zone utilizing a Precision Permeameter and the following testing procedures.

A support stand was assembled and placed adjacent to each borehole. This stand holds a calibrated reservoir (2000 ml) and a cable used to raise and lower the water control unit (WCU). The WCU establishes a constant water head within the borehole during testing by use of a precision valve and float assembly. The WCU was attached to the flow reservoir with a 4-meter (approximately 13-foot) braided PVC hose and then lowered by cable into the borehole to the test depth elevation.

As required by the Glover solution, the WCU was suspended above the bottom of the borehole at an elevation of approximately 5 times the borehole diameter. The shut-off valve was then opened allowing water to pass through the WCU to fill the borehole to the constant water level elevation. The absorption rate slowed as the soil voids became filled and an equilibrium developed as a wetting bulb developed around the borehole. Water was continuously added until the flow rate stabilized. The reservoir was then re-filled in order to begin testing. During testing, as the water drained into the borehole and surrounding soils, the water level within the calibrated reservoir was recorded as well as the elapsed time during each interval. The test was continued until relatively consistent flow rates were documented.



Pine Island, Corolla, North Carolina

GET Project No: EC14-136G

During testing the quick release connections and shutoff valve were monitored to ensure that no leakage occurred. The flow rate (Q), height of the constant water level (H), and borehole diameter (D) were used to calculate Ks utilizing the Glover Solution. Based on the field testing and corroborated with laboratory testing results (published values compared to classification tests), the hydraulic conductivity of the shallow soils is provided in the following table (Table VIII – Saturated Hydraulic Conductivity Test Results) and is presented on the "Hydraulic Conductivity Worksheet" reports (Appendix VII), included with this report.

Table VIII - Saturated Hydraulic Conductivity Test Results

	Test	% Silt		ndwater I (ft.) ⁽¹⁾	Average Inf	filtration Te		
Boring No.	Depth (ft) ⁽¹⁾	and/or Clay	Current ⁽²⁾ Estimated Normal Seasonal High		cm/sec	cm/day	in/hour	
HA-1	1	0.3	1.5	0.5 to 1	1.17E-03	100.8	1.654	
HA-2	1	0.1	1.5	0.5 to 1	1.27E-03	109.8	1.801	
HA-5	4.5	0.3	5.75	4 to 5	1.75E-02	1513.4	24.826	

Note (1) = The depths noted above are referenced from below the existing (natural) site grade elevations for each specific boring location.

Note (2) = The observed groundwater levels noted above, in Section 3.3 of this report, on our Boring Log sheets, and on our Generalized Soil Profile sheets were obtained through observation of soil wetness at the time of our subsurface exploration procedures.

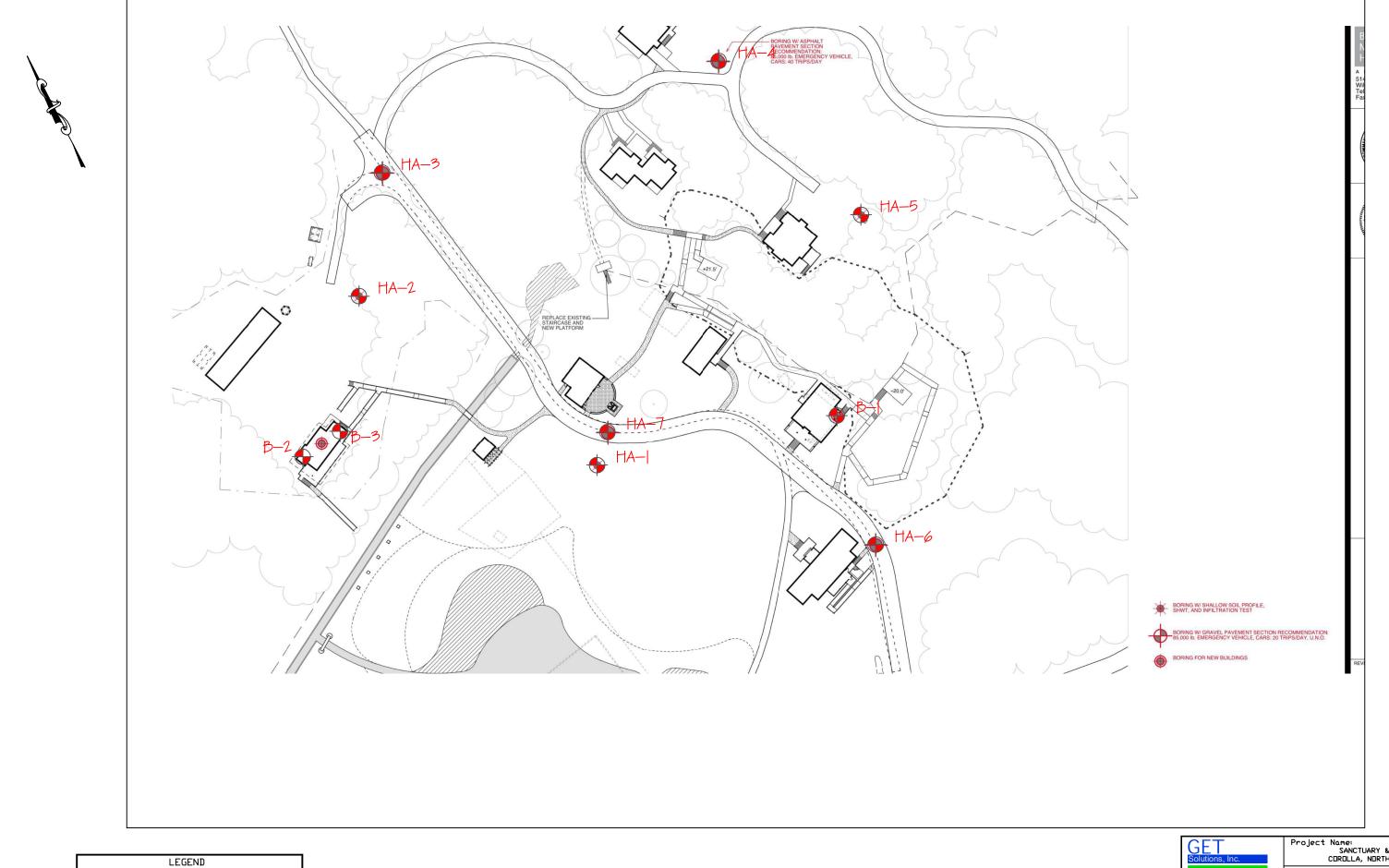
5.0 CONSTRUCTION CONSIDERATIONS

5.1 Drainage and Groundwater Concerns

It is expected that dewatering may be required for excavations that extend near or below the existing groundwater table. Dewatering above the groundwater level could probably be accomplished by pumping from sumps. Dewatering at depths below the groundwater level may require well pointing.

It would be advantageous to construct all fills early in the construction. If this is not accomplished, disturbance of the existing site drainage could result in collection of surface water in some areas, thus rendering these areas wet and very loose. Temporary drainage ditches should be employed by the contractor to accentuate drainage during construction.





→ APPROXIMATE BORING LOCATIONS

Project Name:
SANCTUARY & AUDUBUN CENTER
COROLLA, NORTH CAROLINA

Project No.: EC14-136G Drawn By:

Date: 5/19/14 Figure No.: 1

BORING LOCATION PLAN

SCALE:
NOT TO SCALE



RECORD OF SUBSURFACE EXPLORATION

Virginia Beach 204 Grayson Road Virginia Beach, VA 23642 757-518-1703 Williamsburg 1592-E Penniman Road Williamsburg, VA 23185 757-564-6452 Elizabeth City 106 Capital Trace Unit E Elizabeth City, NC 27909 252-335-9765 Jacksonville 415-A Western Blvd Jacksonville, NC 28546 910-478-9915

HAND AUGER BORING ID HA-1

PRO	JECT	NAME: _ The Donal C O'Brien Sanctury & Audubon Center				PR	OJE	ECT NUMBER: EC14-136G
	CLIENT: Bowman Murray Hemingway Architects							ACE ELEVATION (MSL) (ft): NA
PRO	JECT	LOCATION: Pine Island, Corolla, NC						ED BY: P. Lankford, EIT
		OCATION: See Attached Boring Location Plan						STARTED: 3/21/2014
		METHOD(S): Hand Auger						COMPLETED: 3/21/2014
		VATER*: INITIAL (ft) ∑: 1.5 AFTER HOURS (ft) ▼: CAVE-IN (ft) The initial groundwater readings are not intended to indicate the static groundwater level.) 🚅: 🗵	3.5				ER: GET Solutions, Inc.
(ft)	(£)		gend	₽	Гуре	le ′ (in.)	00	TEST RESULTS
Elevation (ft)	Depth (ft)	STRATA DESCRIPTION	Strata Legend	Sample ID	Sample Type	Sample Recovery (in.)	%<#200	Plastic Limit X————————————————————————————————————
		6 inches of Sandy Topsoil to SAND (SP) with Organics 0.5	7 7	4		40		
		Tan-Gray, very moist to wet, poorly graded fine to medium SAND (SP)		1		12	0	•
_	1						•	\(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\fraca
Ī	4	Wet from 1.5 feet		2		12		\
	2							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
				3		12		
	3	Dark Gray, wet, poorly graded fine SAND (SP-SM) with trace Organics Organic Content = 3.1%	77 47 77 47	4		6	6	
<u>_</u>	_	Cave-in at 3.5 feet Boring terminated at 3.5 feet below existing grade.			222			
This information pertains only to this boring and should not be interpreted as being indicitive of the site.								
yuo su								
on perta		Sample Type(s): Notes:						
This information	AUGER Sample							PAGE 1 OF 1

Solutions, Inc.

RECORD OF SUBSURFACE EXPLORATION

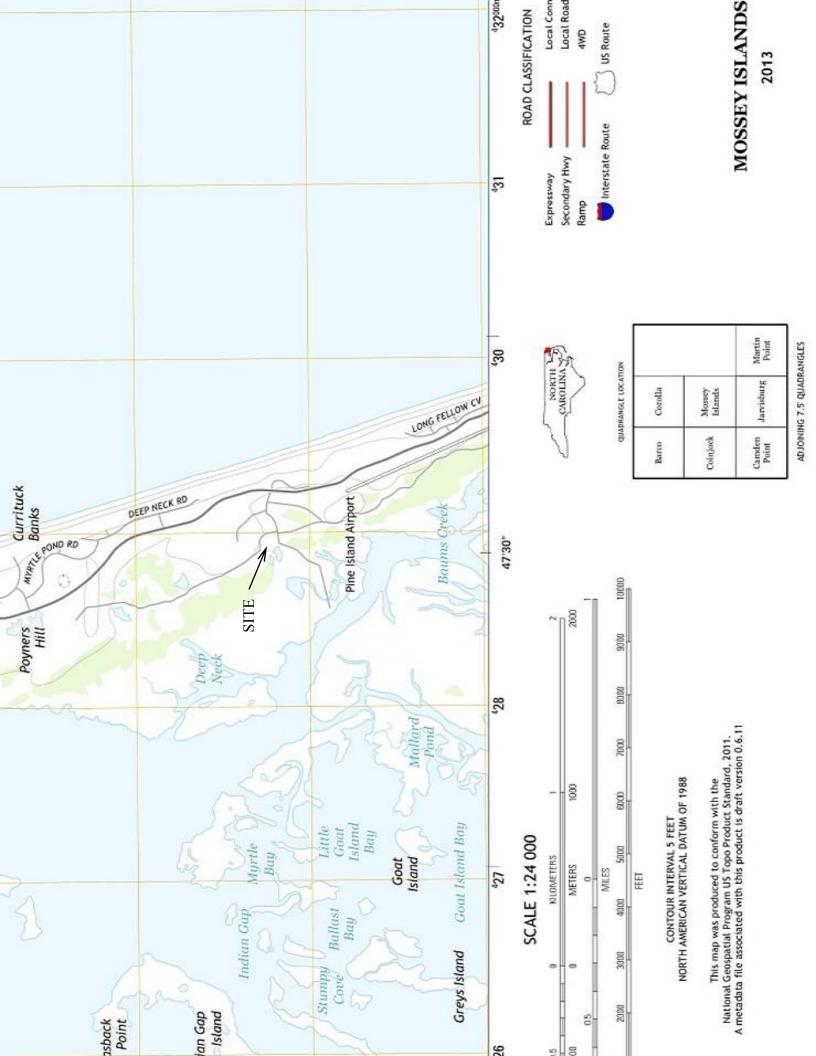
Virginia Beach 204 Grayson Road Virginia Beach, VA 23642 757-518-1703 Williamsburg 1592-E Penniman Road Williamsburg, VA 23185 757-564-6452 Elizabeth City 106 Capital Trace Unit E Elizabeth City, NC 27909 252-335-9765 Jacksonville 415-A Western Blvd Jacksonville, NC 28546 910-478-9915

HAND AUGER BORING ID HA-5

		NAME: The Donal C O'Brien Sanctury & Audubon Center				PROJ	ECT NUMBER: EC14-136G
		Bowman Murray Hemingway Architects					ACE ELEVATION (MSL) (ft):INA
		OCATION: Pine Island, Corolla, NC					BED BY: P. Lankford, EIT
		OCATION: See Attached Boring Location Plan		_			STARTED: 3/21/2014
		METHOD(S): Hand Auger					COMPLETED: <u>3/21/2014</u>
GRO	UNDV	ATER*: INITIAL (ft) ∑: 5.75 AFTER HOURS (ft) ▼: CAVE-IN (f	ft) ⊊: _	7		DRILL	ER: GET Solutions, Inc.
_		The initial groundwater readings are not intended to indicate the static groundwater level.	70		(D)	·	TEST DESIGNED
Elevation (ft)	Œ		Strata Legend	_	Sample Type	Recovery (in.)	TEST RESULTS Plastic Limit X————————————————————————————————————
/atic	Depth (ft)	STRATA DESCRIPTION	la Le	Sample ID	ple	covery (ir %<#200	Water Content - ●
Ele	۵		Stra	S	San	Rec.	<u> </u>
		6 inches of Topsoil			///		10 20 30 40 50 60 70
		0.5	\otimes	1	1	2	
		Reddish Tan, moist, Clayey SAND (SC; FILL)				_	
	1 -	Tan, moist to wet, poorly graded fine to medium SAND (SP)	$ \times$ \times				
		(2	1	2	
				_		_	
	2 -						
				3		2	
				3		2	
	3 -						
				4	1	2	
	4 -						
						0	 •
				5	1	2	
	5 -						
∇				6	1	2	
_	6 -	Wet from 5.75 feet					
					<u> </u>		
						2	
Ē	7 -	7.0 Cave-in at 7 feet					
		Boring terminated at 7 feet below existing grade.					
4		Sample Type(s): Notes:					
A S	UGER - ample	Auger					
41							
							PAGE 1 OF 1

APPENDIX C

USGS Map Excerpt



APPENDIX D

Property Deed and Key Map Schematics

Of ax Collector Certification That No Delinquent Taxes

(Are Duc. Date ///2005 by // Certification expires Jan. 6th of the year following certification date.

TRANSFER TAX AMOUNT AMELINATE/CODECTOR 11-32-3005

Documents of Deeds Charlene y Dowly Register of Deeds Register of

110

STATE OF CURRITUCK

Prepared by and return to: Thomas P. Nash, IV 200 N. Water St. #2A Elizabeth City, NC 27909

THIS DEED, made and entered into this 30th day of June, 2005, by and between EARL F. SLICK and wife, JANE P. SLICK, Parties of the First Part, hereinafter called the Grantors, to NATIONAL AUDUBON SOCIETY, INC., a nonprofit corporation organized and existing under the laws of the State of New York, with offices located at 700 Broadway, New York, NY 10003, Party of the Second Part, hereinafter called Grantee;

WITNESSETH:

That the Grantors in consideration of an exchange of real estate and a gift unto grantee, by these presents do, for themselves, their heirs and assigns, convey, remise and release unto the Grantee, its successors and assigns, all title and interest of the Grantors in and to the following described rights, privileges and property located in Currituck County, North Carolina and Dare County, Worth Carolina, including all marshland, beach land islands of marsh and lands covered by water contiguous and adjacent thereto and islands in Currituck Sound, together with riparian and acretive rights incident to the ownership thereof:

All hunting and shooting rights, blinds and licensed blind locations owned by the Grantors north of a straight line running eastwardly from designated <u>Foint A</u> to designated <u>Point B</u> in the following description the course and distance of said line being North 43° O8' 56" East 8,394.76 feet, the designated <u>Point A</u> and <u>Point B</u> being more particularly designated as follows:

Book 913 Page 150

BEGINNING at a point in the north line of Pine Island property currently owned by the Grantee in Currituck County, said point of beginning being a common corner of the Grantee and the now or formerly Currituck Shooting Club へ on the eastern edge of that part of Currituck Sound known as Beasley Bay, said point also being in the west margin of Othe Outer Banks and being located North 85° 25' 10" East a distance of 3,102.84 feet from the northeast corner of the Mine Island property of the Grantee, said northeast corner being at a point in the normal high water line of the western edge of the Atlantic Ocean; running thence the following courses and distances: South 38° 26' 02" West 8,571 79 feet (across Beasley Bay to a point on the north side of an island); South 21° 23' 0" West 1,782.72 feet (to a point on the west end of an island); South 27° 15' 10" East 2,2(5).29 feet (to a point on the west side of Ballis Point, an sland); South 31° 04' 50" East 5,849.83 feet (to a point on the west side of an island, said point being the hereinabove referred to POINT A); running thence South 34° 35' 30" East 352.28 feet (to a point on the west end of an island); South 42° 12' 30" East 1,161.03 feet (to a point on the west end of an island); South 28° 51' 40" East 3,459.74 (crossing the Dare County-Currituck County line at 2,558.06 feet and continuing on said course 901.68 feet to a point on the westraide of Great Gap island); South 02° 22' East 1,211.03 feet (to a point on the west end of an island); South 25° 401 11" East 688.77 feet (to a point on the west side of Bob's Island); South 30° 44' 10" East 430.46 feet (to a poin on the west side of Bob's Island); South 36° 03' 51" East χ ,276.22 feet (to a point on the west side of Oak island); South 42° 14' 10" East 3,228.16 feet (to a point on the west side of Shannon's Island); South 65° 33' 20" East 120.83 feet (to a point at the south end of Shannon's Island); North 17° 14' 29" East 2,429.16 feet (to a point on the south end of Ware marsh); North 12° 58' 26" East 2,093.44 feet (to a point on the east end of an island situate south of Sanda Creek): North 44° 13' 38" an island situate south of Sandy Creek); North 44° 13' 38" East 3,670.22 feet (to a point of the south end of Goose Island); South 54° 12' 18" East 1,197.07 feet (to a point on the eastern edge of Currituck Sound, said point being the northwest corner of the property formerly owned by Carl P. White, Deceased); North 22° 11' 14' West 399.75 feet; North 18° 08' 17" West 610.33 feet (to a point on the eastern edge of Currituck Sound); North 29° 23' 46" West eastern edge of Currituck Sound); North 29° 23' 46" West 814.92 feet (to a point on the eastern edge of Currituck Sound); North 28° 58' 47" West 717.46 feet (crossing the Dare County-Currituck County 12-12 Dare County-Currituck County line at 527. 64 feet and

continuing on said course 190.42 feet to a point on the eastern edge of Currituck Sound); North 77° 30' 00" East 1,095.51 feet (crossing the Outer Banks to a point in the normal high water mark line of the western edge of the Atlantic Ocean); North 20° 27' 06" West 8,971.54 feet (along the normal high water line of the western edge of Othe Atlantic Ocean); South 64° 41' 41" West 1,943.63 feet (crossing the Outer Banks to the point in the eastern edge of Doxey's Cove); said line being the south boundary of Tract 1-C of the Pine Island Development Venture property; North 69° 17' 27" West 876.64 feet to a point (said point being hereinabove referred to as POINT B).

The rights herein conveyed being those hunting and shooting rights, blinds and licensed blind locations specifically retained and excepted in paragraph 2 of those exceptions contained in that Correction Gift Deed dated June 27, 1978 from Earl F. Slick and wife, Jane P. Slick to National Audubon Society, Inc. recorded in Book 156, Page 508, Currituck County Registry, it being the express purpose of this deed to convey said hunting and shooting rights, blinds and licensed blind locations to the Grantee herein.

TO HAVE AND TO HOLD the aforesaid rights, blinds and blind locations and all privileges and appurtenances thereto belonging to the Grantee, its successors and assigns.

IN TESTIMONY WHEREOF the Grantors have hereunto set their hands and seals, as of the Θ_{XX} and year first above written.

____(SEAL)

41.09100 (S

Motticial

OCUMETY

STATE OF N. Causlina COUNTY OF JOSEPH I, A Notary Public of the County and State aforesaid, certify tha (NEarl F. Slick and wife, Jane P. Slick personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness p_{3} hand and official stamp or seal, this 30^{4} day of __, 2005. My commission expires: NOTARY PUBLIC HORAN
COUNTY OF FOREYTH
COUNTY OF FOREYTH
Commission Bodres 2 2/02 Notadry Public The foregoing certificate of is cert fied to be correct. This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page hereof. Register of Deeds for Carrituck County

Deputy/Assistant Register of Deeds Deputy/Assistant Register of Deeds By_ R\slick-national audubon deed 2005 Unofficial Document



Doc ID: 002463860004 Type: CRP Recorded: 12/20/2012 at 02:04:14 PM Fee Amt: \$4.226.00 Page 1 of 4 Excise Tax: \$700.00 Currituck County, NC Denise A. Hall Register of Deeds BK 1229 Pg200-203



NORTH CAROLINA SPECIAL WARRANTY DEED

Excise Ta	_{x:} + 10ŎΩΩ		
	entifier No. Verified by	County on the	day of, 20
Ву:			
3 t 11 (2)	()	G. L N.G. 07100	
Mail/Box	to: Bell, Davis & Pitt P.A.; P.O. Box 21029; Winston	i-Salem, NC 27120	
This instru	ument was prepared by: Frank M. Bell, Jr. (No Title S	earch Requested or Performed	1)
Brief desc	ription for the Index:		·
THIS DE	ED made this /g/ day of December, 2012, by and be	ween	
	GRANTOR		GRANTEE
	Y		
	IS SLICK COWELL AND R. ELAINE ADDISON,		SOCIETY, INC., A New York not-
	USTEES OF THE PHYLLIS SLICK COWELL OCABLE TRUST AND PHYLLIS S. COWELL,	225 VADICE	rofit corporation K STREET, 7 TH FLOOR
ICE V	UNMARRIED		K, NEW YORK 10014
4400	SILAS CREEK PARKWAY, SUITE 302	INEW TORS	1011 TOTAL 10014
	WINSTON-SALEM, NC 27104		
	opropriate block for each Grantor and Grantee: name, ma		e, character of entity, e.g. corporation or
partnershi	p.		
		- 	
The desig singular, p	nation Grantor and Grantee as used herein shall included olural, masculine, feminine or neuter as required by co	e sald parties, their heirs, such	cessors, and assigns, and shall include
by these p	SETH, that the Grantor, for a valuable consideration pairesents does grant, bargain, sell and convey unto the Grovements thereon, situated in Currituck County, North	antee in fee simple, all those of	certain lots or parcels of land, together
	See Exhibit "A" attached hereto a	nd incorporated kerein by r	eference.
The prope	erty hereinabove described was acquired by Grantor by	instrument recorded in Book	page
		14	
	ortion of the property herein conveyed includes or	٠٧/	imary residence of a Grantor.
A map she	owing the above described property is recorded in Plat	Bookpage	7
		Tax Collector	Certification that
#581933	350000	(A) No Delinque	Taxes Are Due
	TRANSFER TAX AMOUNT 35 00 00 DATE/COLLECTOR 12: 20: 20/2 TI	7r Date /2/2	<i>9[18</i> 3By [LL]
	SATE/COLLECTOR 18 80-8018 11		pires Jan. 6th of the
		year following	g certification date
			Ō
			C.
			· Z,
			<i>'</i> 3
			<i>'</i> Ø'
			Chiment

Exhibit A

All those certain parcels of land located in Currituck County, North Carolina, described as

Parcel One:

Lot Numbers 3 and 4, Section I, Tract 1-A, as shown on Plat entitled, "Revised Pine Island Estates Subdivision of Section I, Tract 1-A, Pine Island Development Ventures," recorded in Plat Cabinet A, Slide 170 in the Office of the Register of Deeds of Currituck County, North Carolina.

Parcel Two:

Lot Number 13, Section I, Tract 1-A, as shown on Plat entitled, "Revised Pine Island Estates Subdivision of Section I, Tract 1-A, Pine Island Development Ventures," recorded in Plat Cabinet A, Slide 178 in the Office of the Register of Deeds of Currituck County, North Carolina

Unofficial Document

C\Documents and Settings\bclontz\Local Settings\Temporary Internet Files\Content.Outlook\V8YS03H0\20237-3 Exhibit A.doc

Exhibit B Additional Deed Provisions

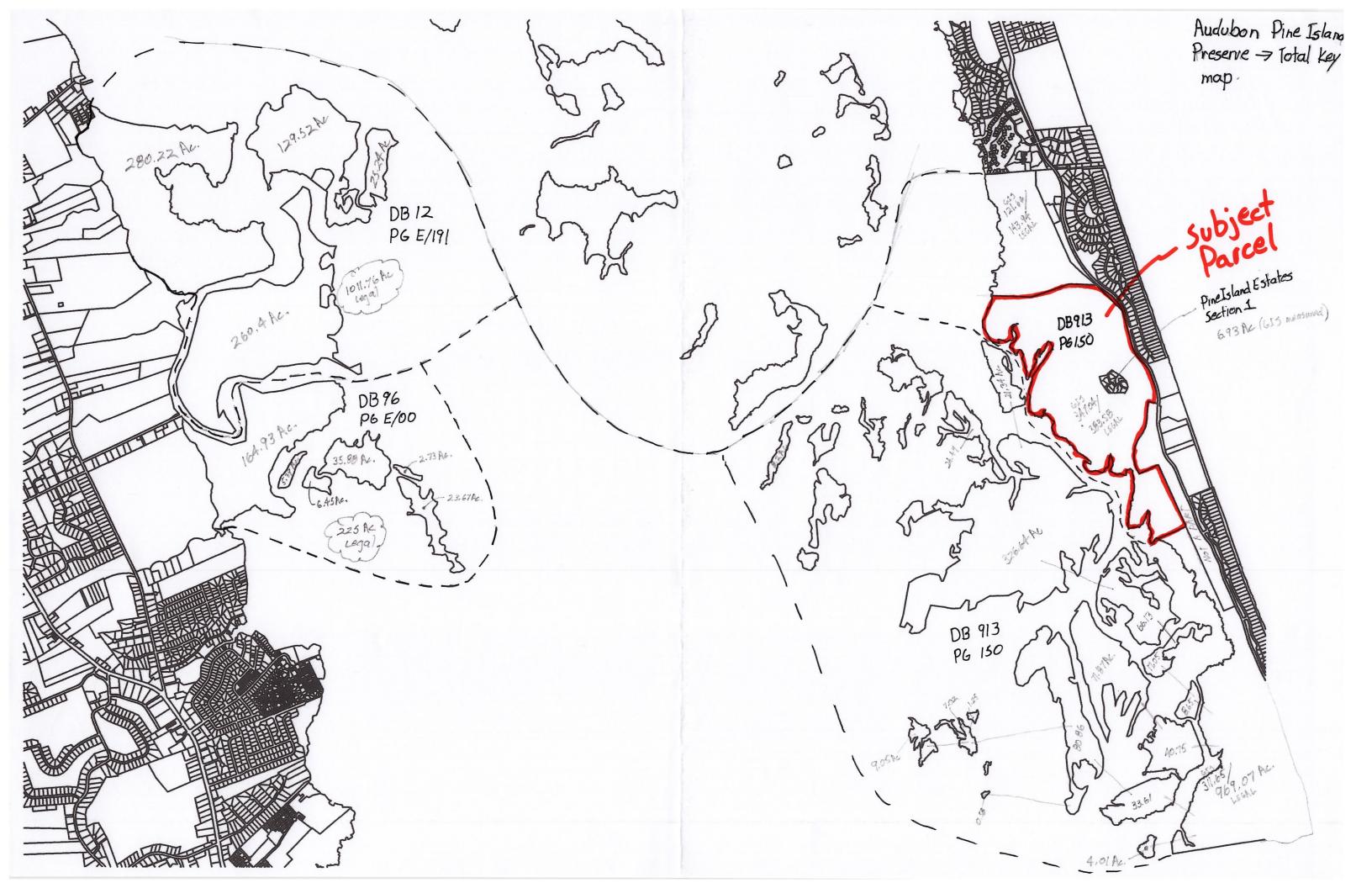
- 1. Grantor hereby releases to Grantee all of Grantor's right, title and interest in and to the easement for private roads (including, but not limited to, any and all obligations of Grantor to maintain, repair and improve such roads) within the perimeter of the development entitled "Revised Pine Island Estaips Subdivision of Section SI, Tract 1-A, Pine Island Development Ventures," recorded in Plat Cabinet A at Slide 170 in the Office of the Register of Deeds of Currituck County, North Carolina, as reserved in Deed from Noco, Inc. to National Audubon Society, Inc. dated December 22, 1989 and recorded in Book 268, Page 860, Currituck County Registry.
- 2. Grantor hereby releases to Grantee all of Grantor's right, title and interest in and to the Reserved Parcet D containing 0.38 acres, as reserved in Deed from Noco, Inc. to National Audubon Society, Inc. dated December 22, 1989 and recorded in Book 268, Page 860, Currituck County Registry.
- 3. Grantor hereby releases to Grantee all of Grantor's right, title and interest in and to that certain permanent non-exclusive easement reserved in the Deed from Noco, Inc. to National Audubon Society, Inc. dated December 22, 1989 and recorded in Book 268, Page 860, Currituck County Registry, described in said Deed as an appurtenance to Lot Numbers 2, 3, 4 and 13, as described in numbered paragraph 2 of said Deed.
- 4. Grantor hereby releases to Grantee all of Grantor's right, title and interest in and to the permanent non-exclusive easement for purposes of ingress and egress to and from N.C. Highway No. 12 to the 383.58 acre tract described in Deed from Noco, Inc. to National Audubon Society, Inc. dated December 22, 1989 and recorded in Book 268, Page 860, Currituck County Registry.
- 5. Grantee, by acceptance of this Deed, and Grantor Phyllis S. Cowell, by the execution of this Deed, hereby mutually terminate the First Right of Refusal to Purchase Real Estate and Restrictive Covenant dated December 22, 1989 and recorded in Book 268, Page 877, Currituck County Registry.
- 6. Grantee, by acceptance of this Deed, and Grantor Phyllis Slick Cowell and R. Elaine Addison, Trustees of the Phyllis Slick Cowell Revocable Trust created pursuant to an Amended and Restated Trust Agreement dated February 3, 2009, and as further amended, by the execution of this Deed, hereby mutually terminate the First Right of Refusal to Purchase Real Estate and Restrictive Covenant dated December 22, 1989 and recorded in Book 268, Page 869, Currituck County Registry.
- 7. It is the intention of Grantor and Grantee for Grantor to convey to Grantee all of Grantor's right, title and interest (including any obligators) in and to all of the properties, easements, and other rights excepted and reserved by Noco, Inc. and other parties in the Deed from Noco, Inc. to National Audubon Society, Inc. dated December 22, 1989 and recorded in Book 268, Page 860, Currituck County Registry.
- 8. Grantor hereby releases to Grantee all of Grantor's right, title and interest in and to the easements described in Paragraphs 2 and 3 of that certain Deed of Easement from National Audubon Society, Inc. to Earl F. Slick and Phyllis S. Cowell dated September 16, 2005 and recorded in Book 913, Page 141, Currituck County Registry (the "2005 Easement"). Granton hereby reserves the easement described in Paragraph 1 of the 2005 Easement that was previously granted by Grantee to Grantor.

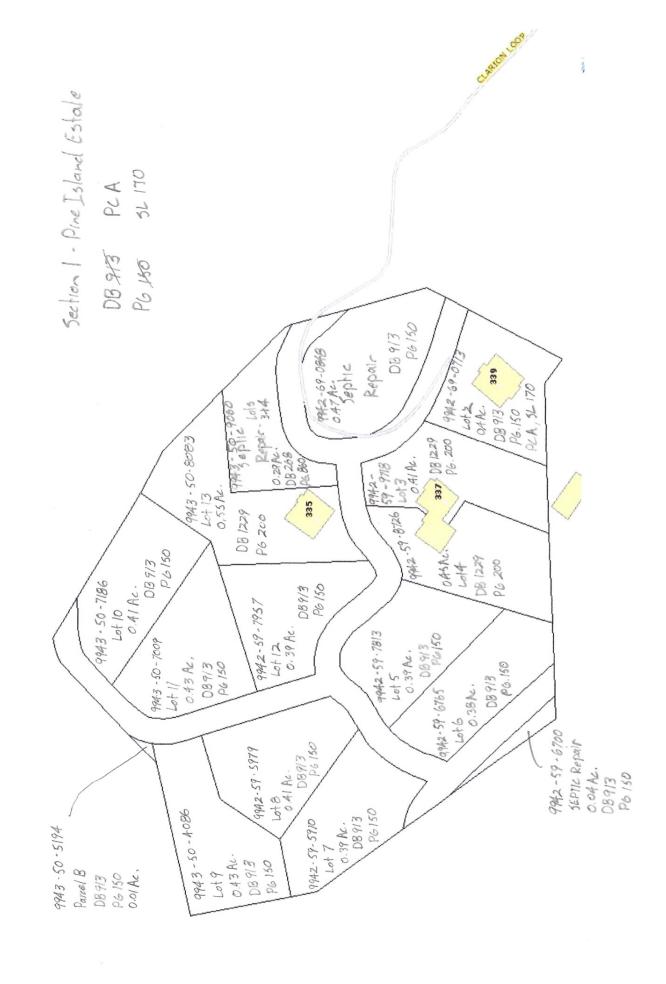
Book 1229 Page 202

BOOK 1229 PAGE 0203

The property described herein is conveyed subject to the "Additional Deed Provisions" set forth in Exhibit B attached hereto and incorporated herein by reference. TOHAVE AND TO HOLD the aforesaid lots or parcels of land, together with all improvements thereon, and all privileges and approprienances thereto belonging to the Grantee in fee simple. And the Grantor covenants with the Grantee, that Grantor has done nothing to impair such title as Grantor received, and Grantor will and defend the title against the lawful claims of all persons claiming by, under or through Grantor, other than the following warrant exceptions: Ad valorem axes for the current year and subsequent years, easements, rights of way, restrictions and conditions of record. IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written Phyllis Slick Cowell and R. Elaine Addison, Trustees of the Phyllis Slick Cowell Revocable Trust (Entity Name) By:_ Print/Type Name & Title: Phyllis Slick Cowell, Trus Of The Phyllis Slick Cowell Revocable Trust Print/Type Name & Title: R. Elaine Addison, Trustee Of The Phyllis Slick Cowell Revocable Trust - Country of NA State of NC I, the undersigned Notary Public of the County of NAS and State aforesaid, certify that PHYLLIS S. COWELL, UNMARRIED personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed. Witness my hand and Notarial stamp or seal this the day of My Commission Expires (Affin Scish C. WATSON Notary Public NOTARY PUBLIC Notary's Printed or Typed Name NEW COUNTY, NO - County of NAS I, the undersigned Notary Public of the County of Age and State aforesaid, certify that PHYLLISLIKK COWELL TRUSTEE OF THE PHYLLIS SLICK COWELL TRUST personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed. Witness my hand and Notarial stamp or seal this \State day of , 2012 My Comma Signations Affix Northary Public Notary Public NASH COUNTY, NO North Canlon - County of Fresyth
I, the undersigned Notary Public of the County of Fon Syth State of North Landing and State aforesaid, certify that R. ADDISON, TRUSTEE OF THE PHYLLIS SLICK COWELL REVOCABLE TRUST personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed. Witness my hand and Notarial stamp or seal this 19 day of Licensey, 2012 My Commission Expires: DANA W HOWARD (Affix Seal) NOTARY PUBLIC Notary Public lowa FORSYTH COUNTY s Frinted or Typed Name NORTH CAROLINA

#581933





APPENDIX F

Articles of Incorporation



North Carolina

Elaine F. Marshall DEPARTMENT OF THE SECRETARY OF STATE

PO Box 29622 Raleigh, NC 27626-0622 (919)807-2000

Account Login Register

CORPORATIONS

Corporations Home

Professional Corporations

Scam Alerts

Official Notices

Resale of Tickets Online

Statewide Cable Franchise Rules

Corporations Division FAQs

Guidelines

Tobacco Manufacturers Unincorporated Non-Profits

Dissolution Reports

Suspension Reports

Verify Certification

Online Annual Reports

Print Forms

SEARCHES

Search By Corporate Name

Search For New & Dissolved

Search For New Non-Profits

Search By Registered Agent

E-mail Notification Subscriptions

Account Login

Instructions for E-Mail Notification

Non-Profits by county

ONLINE SERVICES

Start An Order/Upload a Document

Pay A Paper Invoice

Creating and Managing My Account

Placing and Viewing Orders

PDF Submission Instructions

Privacy Policy

Verify Certification

LINKS & LEGISLATION

Business Scams

IRS Information

Entities at Risk of Losing

...their Tax Exempt Status

KBBE B2B Annual Reports

Date: 10/8/2014

Click here to:

View Document Filings |

PC, PLLC, LP and Non-Profit entities are not required to file annual reports.

Corporation Names

Name

NC NATIONAL AUDUBON

SOCIETY, INC.

LEGAL

Name Type

FOREIGN

NC NATIONAL AUDUBON

SOCIETY, INC.

Non-Profit Corporation Information

SOSID: 0280451

Status: Current-Active

Effective Date: 12/15/1989

State of Inc.: NY

Duration: PERPETUAL

Registered Agent

Citizenship:

Agent Name: NATIONAL REGISTERED AGENTS, INC.

Office Address: 150 FAYETTEVILLE STREET.

BOX 1011

RALEIGH NC 27601

Mailing Address: 150 FAYETTEVILLE STREET,

BOX 1011

RALEIGH NC 27601

Principal Office

Office Address: 225 VARICK STREET, 7TH FLOOR

NEW YORK NY 10014

Mailing Address: 225 VARICK STREET, 7TH FLOOR

NEW YORK NY 10014

Officers/Company Officials

APPENDIX G

CALCULATIONS

Audubon - Pine Island Deel Engineering, PLLC Stormwater Cales 8/22/14 page 1 of 9 Parcel / Project Arca: · Audubon's Pine Island Preserve consists of approximately 2, 733 Acres of Land along the outer banks as well as marsh islands in Eurrituck Sound and (presumably) some submerged lands, (Acreage total as per legal descriptions compiled in currifice Co. GIS), All proposed development is located within the confines of one large parcel (383,58 Ac legal description) as well as the entirely of the small subdivision known as "Pine Island Estates," For the purpose of permitting and calculations, the "Project Area" will be defined as the single large parcel and small subdivision which is impacted by proposed development: For calculation purposes, Areas as measured in GIS will be used. Parcel Area: Large Parcel: 347.04 Ac. (6IS) (6I5) Pine Island Estates: 693 Ac. Total Ruxel Area = 353,97 Ac. (615) Due to small size of development compared to overall parcell " Welland: project area, wellandshave only been field delineated / confirmed in proximily to the proposed development to ensure impacts are clearly identified (see site plans goding plans for Rield delinealed welland). For the purposes of lot calculations coverage cales/etc, wetland limits have been estimated from armal pholography. I wis is reasonable due to the fact that the regulated area (coverage) will be a small fraction of what is allowed due to the massive size of the property, Wetland Area 404 Welland: +1-1,321,018 of (30.3 Ac) (Approx. From Aerial) Coastal Wetland: 1/- 6,704,481 of (153.9 Ac) (Approx from Aenal) Sound Waters: 7- 358, 8/5 of (8.2 Ac) CAPPROX. From Aerial) · "Project Area" for NCDENR Calcs + Permitting:
Parcel Area - Coastal Wollands - surface water = 191.87 Ac.

	udul		4				xl															Do	ee /2:	Enc	inc	er;	ng	, F	22	_			
	01 11	W-41																				Pa	ago	0	2	of	9						
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Audubon - Pine Island Deel Engineering, PLLC Stormwater Calcs 8/22/14 page 3 of 9 Drainage Area 1: Drainage Area 1 is an area localed in the high dunes in the northeast of the project's developed area conforming two of the three "collages" (Pine Island Estates, Section 1) to be renovated. New impervious coverage within this drainage area will consist entirely of a re-shaping of the asphalt "tee" in Front of the cottages in order to accommodate Fire apparalus turn-around. This drainage area dues not accept ony off-site runoff. Due to the "duneland" nature of the topography and soils, runoff is primarily infiltrated in the sandy fringe along impervious surfaces lixcoss runoff, if it were to occur would collect in the under, low area located in the east-middle part of the drainage area. There is no physical evidence indicating that this is a regular occurrence. Due to the Orange Area not accepting off sile runoff, not contributing any downstream runoff, and the existence of a natural intiliration area, no new stormwater improvements are proposed. Drainage Area: 112,890 sf (2.59 Ac.) =7 To demonstrate compliance, we will show full capture of the 10-yr, 24hr. Post-Con Coverage: Ex. Blags to remain: 3,421 sf Ex. Asph Road to remain! 5,1435f New Asphalt Drive; 5,469 5F Gravel Edging (roadway): 946 sf Gravel Walkway: 902 sf Total Imp. Coverage, 15,88/ of (0.36 Ac.) Composite C. Factor: Impervious: 15,88/ of @ c=0.95 Natural Duneland: 97,009 of @ C= 0.15

Composite C: (15,881 x 0,95)+(97,009 x 0.15)

0.26

Auduben-Pine Island	Deel Engineering, PLIC
Stormwater Caks	8/22/14
Dramage Area 1 (contb):	page 4 of 9
Total Runoff Volume:	
Q= CIA	
I,5 precip depth for 10 yr, 24 hr 5	torm = 5.86 in (per NOAA)
= 0.26 (5.86/12)(2.59)=0.33 A	c.f) = 14,324 cf
Storage Providedi	
- storage is available in two natural, dune	ey low areasin the SE corner of the
Groundwaler @ t/-4.0' (GET 5	oln's report, Borros HAA + HAS)
storage area 1:	
· Above Grade Storage: Ay	
Bottom Storage @ 4.4'	
	s volume will just continue to collect w/n the
orain	ago crea)
Elev Area Ay. Area	Vol. 2 Vol.
4,4 0	0
98 sf 5	
5,0 196 sF	5925
	640cf
6,0 3,083 sF	1699 of
6.8 10,101 st 6,592 st 5,	274:f 2= 6,973 cf
70,000	2-0,112 cr
- Below Grade Storage:	5101490@ 6.8 20% Void 5 pace
Sold of the state	y and a second
	That A SHWY et 24.0
V-163-400 > 10 vol -	19-75
VBG = [(6.8-4.0') x 10, 10155) -	6,973]x0,2 = 4,262cf
Storage Area/ tol	al 3 lorage: 11, 235 cf

Audubon-Pine Isl	and.	Deel Engineering, PLLC	
Storm water Cales		Deel Engineering, PLLC B/22/14	
Drainage Area	1 (cont'd);	page 5 of 9	
7-15lora	ge Area 2:		
	Above Grade Storage:		4
	Bottom Storage @ 6.0		
	Top storage @ 7.5' (@ elev. 7.5	5', sloved runde will spill over into slovage over	站着
	Elev Area Avg Area	a <u>vol</u> <u>2 vol.</u>	
	85/04	85/cf	
	7.6	80/05	4
	2,4/255	1,206 cf £= 2,057 cf	-
	7.51 3.12235 24/2	£= 2,057 ct	-
8	Below Grade Storage:) = 1701) - 85	1x0,2 = 3516	
	VBG ((7.5-4,0) × 3,1225F) - 2,03		
			1
	Storage nrea.	2 total storage: 3,83/of	
	7 1 2 -1		-
	Total Storage Trandole 14 May	upal dune areas 11,235 ef + 3,83/ef = 15,066 ef	+
	of Drainage Arcali	1,235 cf + 3,83/ - 1 = 15,066 cf	1
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Audubon-Pine Island Deel Engineering, PLIC 8/22/14 Stormwater Cales page 6 of 9 Drainage Area 2: Drainage Area 2 consists of the "Main Campus" of the existing hunt club to the west/southwest of drainage areal. The entirety of this area drains to currifuck sound via overland flow through wetlands, existing canal. No off-site flows through the drainage area or shares the existing conveyances, Therefore, the existing conditions comply with the curriture county stoomwater ordinance requirements in that existing improvements and proposed improvements have no impact on affile conveyances. Diormwater improvements are not proposed for purposes of compliance with ours, co. swm ordinance, but some swm improvements are proposed in the interest of best practices. To that extent, the following calculations are provided for reference Information only. Orainage Area; 335, 450 sf (7.70 Ac.) Pre-Construction: Impervious: Ex. Blags: 11,5/2 sf Ex. Gravel Drive: 12,870 sf Ex Asphalt Drive; 1776 of (Day Kennel, Propaire Tank, etc.) Ex. Other: 1,458 5F (4=0,95) Total Imp. = 26,0175f Based on soils observations in the field, drainage area 2 consists of two types of soils; "A" soils located in the eastern "duney" portion of the drainage area, and "D" soils located in the western, flat portion of the drainage area. 50ils Group "A": 95,665 sf (C= 0.11) Soils Group "D": 213, 768 st (c=0.15) =7 Since peak flow vate mitigation is not the objective (see explanation at top of this page), storage volume (for water quality purposes) is the calculation of interest. Runoff volumes are calculated using

Audubon-Pine Island Stormwater Calcs DAZ-CONTD	Deel Engineering, Plic 8/22/14 Page 7 of 9
Pre-const. Runoff Volume (modified rail composite C-factor: Imp.: 26,017 of @ C=0.	95
Inon = 1.0 in Inon = 5.86 in.	
$Q_{Vpre(i,ov)} = 0.20(1.0 in \div (12/9/et) \times Q_{Vpre(io-yr)} = 0.20(5.86 in \div 12 in/et) \times Q_{Vpre(io-yr)} = 0.2$	
Post - Consi . Runoff Volume: Comp. C. Factor:	015095
Imp: 90,5435f Perm. Pavements: 10,8985f 301/ Group "A": 91,2385f Soil Group "D": 142,86/5f	e=0.1/
4 Perm Pavenents are assigned be calculating their storage	a Cfactor of 1,0 since we will e volume in a later step.

Deel Engineering PLIC Audubon- Pine Island 8/22/14 Stormwater Calcs page 8 of 9 DAZ-conid I 1.0" = 1.012. I 10yr = 5.8612 Qupost (1.01n) = 0.38 (1.0 m+ 12 in/st) x 7.7 Ac = 0.244 Ac.st = 10,621 ef Qupost (10-47) = 0.38 (5.86 in + 12 1/84) × 7.7 Ac. = 1.42 Ac. Ft = 62,241 ex * Total Post-Con Runoff Volume for 1.0" rainfall event = 10,621cf · Difference blun Runoff Volume for 10-yr Post us. 10-yr Pre-con: 62,241 cf - 32,758 cf = 29,483 cf Storage Provided: Grass Pave: Grass pave road system to be underlaid with 12" Thick Gravel storage layer w/40% void space. Grass pave Area: 10,638 sf Storage Available: 10,638 sf × 1,08+ x 0A = 4,255 cf Permeable Concrete: Perm Conc. to be underlaid w/12" Thick Gravel Storage Layer w/40% Void Space. Perm Cone. Area: 6,139 sf Storage Available: 6,139 sf x 1.0 ft x 0.4 = 2,456 cf

Audubon-Pine Island Deel Engineering, PLL Stormwater Cales 8/22/14 page 9 of 9 DA2 - Cont'd Storage Provided -> contid Storage in subgrade: Per Boring HA-1 of GET soils report, GW 13 located at Y-1.5' M36. To provide conservative analysis, we will calculate using an assumed SAWT of 2.5' MSZ (almost existing Ground Elevation) Grass pave system: Avg surface Elev. = 4,5' Ave bottom Storage Gravel Layer @ 3.38' 20% soil voids in subgrade Storage Avail in subgrade: (3.38' - 2.5') × 10,638 sf × 0,2 = 1,872 ef Perm Cone, 345 em: Avg surface Eler, = 5.5' Avg bottom Storage Gravel Layer @ 4.0' 20% Soil Volds in Subgrage Storage Avail in subgrade: (4,0'-2,5') x 6,139 x 0,2 = 1,842 cf Total Storage Available in Perm Pavement 343/2003 in DA2 = 10,425.cf

ROY COOPER Governor ELIZABETH S. BISER Secretary RICHARD E. ROGERS, JR. Director



February 7, 2024

Currituck County Water Department Attention: Will Rumsey, Public Utilities Manager 153 Courthouse Road, Suite 302 Currituck, North Carolina 27929

Re: Engineering Plans and Specifications Approval
Distribution Extension
The Donal C. O'Brien, Jr. Sanc. & Audubon Center
Southern Outer Banks Water System
Water System No.: NC6027001, Currituck County

Serial No.: 24-00087

Dear Applicant:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans bearing the Division of Water Resources stamp of approval for the referenced project. These engineering plans are approved under Division of Water Resources Serial Number 24-00087, dated February 7, 2024.

Engineering plans prepared by Joseph J. Anlauf, P.E., call for the installation of approximately 1,800 feet of 8-inch water main, 200 feet of 6-inch water main, fire hydrants, DCDA backflow preventers, valves and associated appurtenances extending along Audubon Drive to provide domestic and fire service to a number of wildlife sanctuary structures at the Donal C. O'Brien Jr. Sanctuary & Audubon Center in Corolla. The proposed water main extension will connect to an existing 6-inch water main stub along Audubon Drive near its intersection with Ocean Trail (NC Highway 12). Construction of this project must be in accordance with the Currituck County and Southern Outer Banks's standard specifications as previously approved by our office.

Please note that in accordance with 15A NCAC 18C .0309(a), no construction, alteration, or expansion of a water system shall be placed into service or made available for human consumption until the Public Water Supply Section has issued Final Approval. Final Approval will be issued and mailed to the applicant upon receipt of both an Engineer's Certification and an Applicant's Certification submitted in accordance with 15A NCAC 18C .0303 (a) and (c).

These plans in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the



ROY COOPER Governor ELIZABETH S. BISER Secretary RICHARD E. ROGERS, JR. Director



February 07, 2024

CURRITUCK COUNTY WATER DEPARTMENT ATTN: WILL RUMSEY, PUBLIC UTILITIES MANAGER 153 COUTHOUSE RD., SUITE 302 CURRITUCK, NC 27929

: Authorization to Construct (This is not a Final Approval)

Issue Date: February 07, 2024

THE DONAL C. O'BRIEN JR. SANTUARY & AUDUBON CTR.
Serial No.: 24-00087 Water System No.: NC6027001

Currituck County

Dear Applicant:

This letter is to confirm that a complete Engineer's Report and a Water System Management Plan have been received, and that engineering plans and specifications have been approved by the Department for THE DONAL C. O'BRIEN JR. SANTUARY & AUDUBON CTR., Serial No.: 24-00087.

The "Authorization to Construct" is valid for 36 months from the issue date. Authorization to construct may be extended if the Rules Governing Public Water Systems [15A NCAC 18C] and site conditions have not changed (see Rule .0305). The "Authorization to Construct" and the engineering plans and specifications approval letter shall be posted at the primary entrance of the job site before and during construction.

Upon completion of the construction or modification, and prior to placing the new construction or modification into service, the applicant must submit an Engineer's Certification and Applicant's Certification to the Public Water Supply Section.

- Engineer's Certification: in accordance with Rule .0303(a), the applicant shall submit a certification statement signed and sealed by a registered
 professional engineer stating that construction was completed in accordance with approved engineering plans and specifications, including any
 provisions stipulated in the Department's engineering plan and specification approval letter.
- Applicant's Certification: in accordance with Rule .0303(c), the applicant shall submit a signed certification statement indicating that the requirements for an Operation and Maintenance Plan and Emergency Management Plan have been satisfied in accordance with Rule .0307(d) and (e) and that the system has a certified operator in accordance with Rule .1300. The "Applicant's Certification" form is available at http://www.ncwater.org/ (click on Public Water Supply Section, Plan Review, Plan Review Forms).

Certifications can be sent by mail or attachment to an e-mail message to PWSSection.PlanReview@deq.nc.gov.

If this "Authorization to Construct" is for a new public water system, the owner must submit a completed **application for an Operating Permit** and the appropriate fee. For a copy of the application for an Operating Permit please call (919) 707-9076.

Once the certifications and permit application and fee (if applicable) are received and determined adequate, the Department will issue a Final Approval letter to the applicant. In accordance with Rule .0309(a), no portion of this project shall be placed into service until the Department has issued Final Approval.

Please contact us at (919) 707-9100 if you have any questions or need additional information.

Sincerely,

Rebecca Sadosky, Ph.D., Chief Public Water Supply Section

Division of Water Resources, NCDEQ

cc: JAMIE MIDGETTE, P.E., Regional Engineer
ANLAUF ENGINEERING, PLLC



North Carolina Department of Environmental Quality Division of Water Resources

Authorization to Construct

Project Applicant:

CURRITUCK COUNTY WATER DEPARTMENT

Public Water System Name:

SOUTHERN OUTER BANKS WTR SYST

Water System No.:

NC6027001

Project Name:

THE DONAL C. O'BRIEN JR. SANTUARY & AUDUBON CTR.

Serial No.:

24-00087

Issue Date:

February 07, 2024

Expiration Date:

36 Months after Issue Date

In accordance with 15A NCAC 18C .0305, this Authorization to Construct must be posted at the primary entrance to the job site during construction.

Permit: 139675

PIN: 9945-59-0885

ALBEMARLE REGIONAL HEALTH SERVICES Partners in Public Health

Currituck

Owner:

National Audubon Society

225 Varick St.

Floor 7

New York, NY 10014

Applicant:

Anlauf Engineering

4721 W. Eckner St

Kitty Hawk, NC 27949

LTAR: 0.500

Water: PUBLIC

TYPE IV A.

OTHER

GPD: 960

Location:

303 Audubon Drive

1913 LOOGE

PERMIT IS APPROVED BASED ON THE FOLLOWING:

- 1) PLANS AND SPECIFICATIONS HAVE BEEN PREPARED AND SEALED BY JOSEPH ANLAUF, P.E. AND DATED 6/30/14. PROJECT # P12021, SHEETS C 4.12, C 4.13, AND C 4.14
- 2) ONLY THE PLANS REFERENCED ABOVE ARE APPROVED, NO OTHER PLANS HAVE BEEN APPROVED. ANY CHANGES TO THE APPROVED PLANS MUST OBTAIN WRITTEN APPROVAL.
- 3) THE PROPOSED FACILITY IS 1913 LODGE AND IS 8 BEDROOMS WITH A MAXIMUM OCCUPANCY OF 16 PEOPLE

SEPTIC SYSTEM COMPONENT TO INCLUDE:

- 1) 1,000 GALLON TRAFFIC-RATED GREASE TRAP
- 2) 2,000 GALLON TRAFFIC-RATED SEPTIC TANK
- 3) 2,000 GALLON TRAFFIC-RATED PUMP TANK
- 4) LPP DRAINFIELD OF 5 LINES 78 FT LONG, 5 FT ON CENTER
- 5) SIMPLEX MYERS ME 50 CAPABLE OF 40 GPM AT 27.38 FT TDH
- 6) ALL VALVES, CONTROLS, FLOATS, RISERS, VALVE BOXES, ETC TO PROPERLY OPERATE THIS SYSTEM
- DRAINFIELD MUST BE PROPERLY STABILIZED BEFORE FINAL CAN BE RELEASED.
- SYSTEM WILL REQUIRE AN OPERATION AND MAINTENACE CONTRACT WITH A NC SUBSURFACE OPERATOR.
- ENGINEER MUST SUBMIT CONSTRUCTION CERTIFICATION BEFORE OPERATIONS PERMIT CAN BE ISSUED.

Authorized Agent:	Swinney, David	Date: <u>08/15/2014</u>
Approved:		Date:

ALBEMARLE REGIONAL HEALTH SERVICES

392772

Applicant:

Anlauf Engineering, PLLC 4721 W Eckner Street Kitty Hawk, NC 27949

Owner:

National Audubon Society 225 Varick St Floor 7 New York, NY 10014

Site Location:

305 Audubon Dr

Dining Hall

Corolla, NC 27927

GPD: 2,080

LTAR:

0.400

Classification:

PS LPP

If unsuitable, the site may be reclassified to provisionally suitable with the following modification(s):

To obtain an Authorization to Construct:

- * Submit a plat or scale drawing of the lot, showing location and dimensions of all property lines, proposed structures and driveways
- * Submit a copy of deed or contract to purchase
- * Sign legal documents agreeing to the inspection and maintenance requirements of the Albemarle Regional Health Services Management Entity
- * Pay permit fee of \$1400

Comments:

- **Loading Rate is based on LPP design (.8 conventional)
- **Flat and level septic area and call for reevaluation, fill to be based on low area in proposed septic area
- **Seasonal Soil Wetness in low area was found at 16" (20 inches of sand fill needed)
- **Contact Currituck County Planning Dept. to see if land disturbance permit is needed
- **Consult with NC Professional Engineer for wastewater design

Carver, Kevin

Date: 04/04/2023.

ALBEMARLE REGIONAL HEALTH SERVICES

392767

Applicant:

Anlauf Engineering, PLLC 4721 W Eckner Street Kitty Hawk, NC 27949 Owner:

National Audubon Society 225 Varick St Floor 7

New York, NY 10014

Site Location:

305 Audubon Dr
Guides Quarters
Corolla, NC 27927

GPD:

360

LTAR:

1.000

Classification:

Provisionally Suitable

If unsuitable, the site may be reclassified to provisionally suitable with the following modification(s):

To obtain an Authorization to Construct:

- * Submit a plat or scale drawing of the lot, showing location and dimensions of all property lines, proposed structures and driveways
- * Pay permit fee of \$225
- * If LPP system is designed by engineer, a permit fee of \$300 will be required and Management Entity paperwork will need to be completed.

Comments:

- **Flat and level septic area and call for reevaluation
- **Seasonal Soil Wetness 36"
- **Contact Currituck County Planning Dept. to see if land disturbance permit is needed
- **Consult with NC Professional Engineer for wastewater design

EHS:

Carver, Kevin

Date: _04/04/2023

Currituck County Department of Public Health

Health Director

Director, Environmental Health



Date: 04/05/2023

Improvement Permit Denial Letter

Re: Application for improvement permit for:

Tax Lot:

Tax Block/Phase:

Property PIN: 0128000002A000 Property Site: 305 Audubon Dr

Health Department file number: 392773-1.

Dear Anlauf Engineering, PLLC,

The Currituck County Health Department, Environmental Health Division on 04/04/2023 evaluated the above referenced property at the site designated on the plat/site plan that accompanied your improvement permit application. According to your application the site is to serve a Dining Hall (2080 gpd) with a design wastewater flow of gallons per day. The evaluation was done in accordance with the laws and rules governing wastewater systems in General Statutes 130A-333 to 345 and 15A NCAC 18A.1900.

Based on the criteria set out in 15A NCAC 18A.1940 through .1948, the evaluation indicated that the site is UNSUITABLE for a sanitary system of sewage treatment and disposal. Therefore, we must deny your request for an improvement permit. A copy of the site evaluation is enclosed. The site is unsuitable based on following:

- X Unsuitable soil topography and/or landscape position (Rule .1940)
- X Unsuitable soil wetness condition (Rule .1942)

These severe soil or site limitations could cause premature system failure, leading to the discharge of untreated sewage on the ground surface, into surface waters, directly to ground water, or inside your structure.

The site evaluation included consideration of possible site modifications, as well as use of modified, innovative, or alternative systems. However, the Health Department has determined that none of the above options will overcome the severe conditions on this site. A possible option might be a system designed to dispose of sewage to another area of suitable soil or off-site to additional property.

For the reasons set out above, the property is currently classified **UNSUITABLE**, and no improvement permit shall be issued for this site in accordance with Rule .1948(c).

A site classified as UNSUITABLE may be classified as PROVISIONALLY SUITABLE if written documentation is provided that meets the requirements of Rule .1948(d). A copy of this rule is enclosed. You may hire a consultant to assist you if you wish to try to develop a plan under which

your site could be reclassified as PROVISIONALLY SUITABLE.

You have a right to an informal review of this decision. You may request an informal review by the soil scientist or environmental health supervisor at the local health department. You may also request an information review by the North Carolina Department of Health and Human Services regional soil scientist. A request for informal review must be made in writing to the local health

department.

You also have a right to a formal appeal of this decision. To pursue a formal appeal, you must file a petition for a contested case hearing with the Office of Administrative Hearings, 1711 New Hope Church Rd, Raleigh, NC 27609. To get a copy of a petition form, you may write the Office of Administrative Hearings, call the office at (984) 236-1850, or download it from the OAH web site at www.oah.nc.gov. The petition for a contested case hearing must be filed in accordance with the provision of General Statutes 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B. General Statute 130A-335 (g) provides that your

hearing would be held in the county where your property is located.

If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings WITHIN 30 DAYS OF THE DATE OF THIS LETTER. The date of this

letter is April 05, 2023. Meeting the 30 day deadline is critical to your formal appeal.

If you file a petition for a contested case hearing with the Office of Administrative Hearings, you are required by General Statute 150B-23 to serve a copy of your petition to the Registered Agent for the Office of General Counsel, Department of Health and Human Services, 2001 Mail Service Center, Raleigh, N.C. 27699-2001. The Registered Agent for the Department of Health and Human

Services is Lisa Corbett.

Do not serve the petition on your local health department. Sending a copy of your petition to the local health department will not satisfy the legal requirement in N.C. General Statute 150B-23 that you send a copy to the Office of General Counsel, N.C. Department of Health and Human Services.

You may call or write the local health department if you need any additional information or assistance.

Sincerely,

Kevin Carver

Signature of Authorized Agent - DHHS

Enclosures: (Enclose copy of site evaluation)

(Copy of Rule .1948)

15A NCAC 18A.1948 SITE CLASSIFICATION

- (d) A site classified as UNSUITABLE may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of this section or a system approved under Rule .1969 if written documentation, including engineering, hydrogeologic, geologic or soil studies, indicates to the local health department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as PROVISIONALLY SUITABLE if the local health department determines that the substantiating data indicate that:
 - (1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, non-toxic, and non hazardous;
 - (2) the effluent will not contaminate groundwater or surface water; and
 - (3) the effluent will not be exposed on the ground surface or be discharged to surface waters where it could come in contact with people, animals, or vectors.

The State shall review the substantiating data if requested by the local health department.

History Note: Authority G.S. 130A-335(e);

Eff. July 1, 1982;

Amended Eff. April 1, 1993; January 1, 1990.

Albemarie Regional Health Services Princes in Public Health

Construction Authorization

Currituck County Health Department PO Box 77

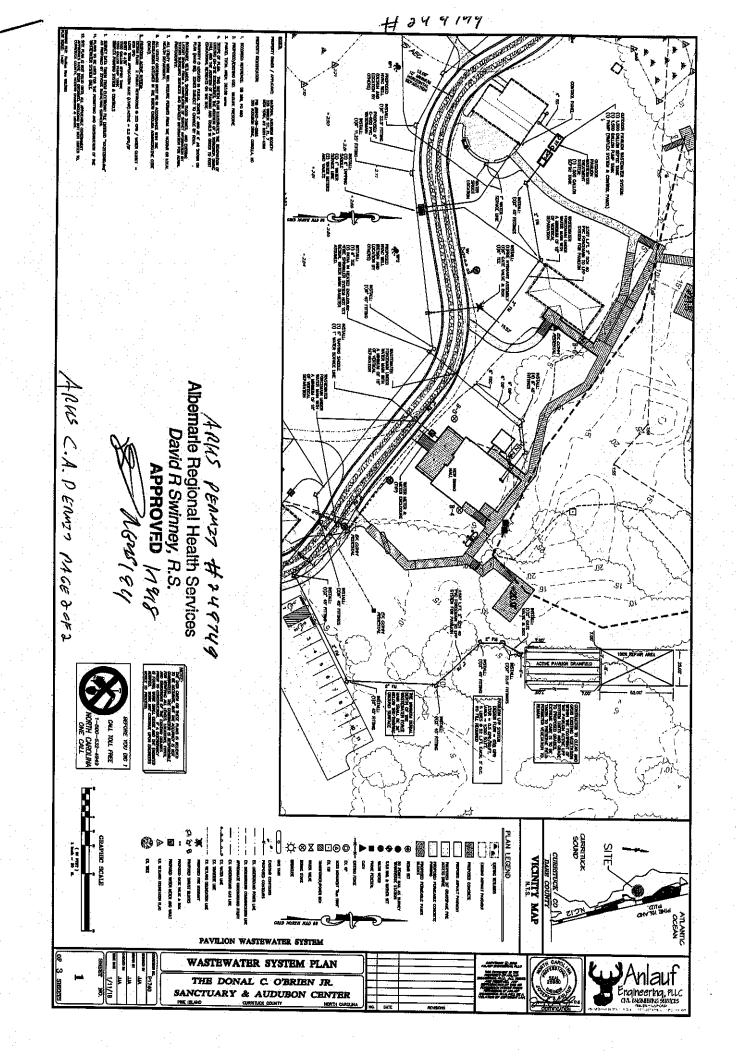
Maple, NC 27956

For Office	Use Only
*CDP File Number:	249749 - 1
County ID Number:	9942-59-0885
Evaluated For: NEW	

	6603 Fax: (252) 232-66	<u> </u>	PERMIT VALID UNTIL: Open Pu	Imp System Sheet
Applicant: ANLAUF ENGINEERING, PLL	<u> </u>	roperty Owner:	NATIONAL AUDUBOR	N SOCIETY
Address: 4721 W. ECKNER ST	A	ddress:	225 VARICK ST.	
City: KITTY HAWK	c	ity:	NEW YORK	
State/Zip: NC 27949	s	tate/Zip:	NY. 10014	
Phone #: wrk: (252) 489-7143		hone #:		
Address/Road #: 300 AUDUBON DRIVE COROLLA, NC 27927 OTHER of Bedrooms:	Property Location & S Subdivision: Directions: DONAL C. O'S OUTDOOR PA	BRIEN JR. SAN	1 Phase: <u>NEW</u> ICTUARY & AUDUBON	Lot:
Water Supply: PUBLIC				
	System Specific	cations		
*Site Classification: PS LPP		Minimu	ım Trench Depth:	Inches
Design Flow: 650		-		
Soil Application Rate: 1.0000		Maximu	ım Trench Depth:	Inches
*System Classification/Description:		Min	imum Soil Cover:	Inches
TYPE IV A. ANY SYSTEM WITH LPP DISTRIE	BUTION	Max	imum Soil Cover:	Inches
*Proposed System:			on Type: LOW F	
		Distribute	in Type	RESSURE PIPE
Nitrification Field: Sq	. ft. -		Septic Tank:1,	500 Gallons
No. Drain Lines: 5	Pu	ımp Required:		May Be Required
Total Trench Length:260 ft.	Inches O.C.		Pump Tank: 1,	500 Gallons
Trench Spacing: 5	X Feet O.C.	e, for		
Trench Width:	Olnches Feet		Grease Trap:	Gallons
Aggregate Depth: inches	O	Septic Tank Inst Grade Level Re		
The issuance of this permit by the Heal	th Department in no way gual	rantees the issue	ance of other permits. The	
Permit Conditions: 1) 1) PROJECT # P1740 DATED JANUARY 12 1) THER PLANS ARE APPROVED AT THIS TIM 1) SEPTIC SYSTEM TO INCLUDE: 1500 GAL 1/ALVES, CONTROLS, RISERS FOR PROPER	RING WITH APPROPRIATE GOVERNI , 2018 DESIGNED BY JOSE E. SEPTIC TANK, 1500 GAL PI	ng bodies in mee PH J. ANLAUF, I UMP TANKSIMP OF 5 LINES 52	PE HAS BEEN APPROVE LEX MEYERS ME 50, AL	D. NO L FLOATS,

The Authorization for Wastewater System Construction shall be valid for a period equal to the period of validity of the Improvement Permit and may be issued at the same time the improvement Permit issued (NCGS 130A-336(b)). If the installation has not been completed during the period of validity of the Construction Permit, the information submitted in the application for a permit or Construction Authorization shall become invalid, and may be suspended or revoked (.1937(g)). Ther person owning or controlling the system shall be responsible for assuring compliance with the laws, rules, and permit conditions regaurding system location, installation, operation, maintenance, monitoring, reporting

Authorized State Agent:	Citimana D. 11	2	Ros 196		at reboutiff
transmissa Ciate Agent.	Swinney, David		10000	Date of Issue:	06/15/2018





North Carolina Department of Environment and Natural Resources

Pat McCrory Governor John E. Skvarla,III Secretary

December 23, 2014

National Audubon Society, Inc Attn.: Ms. Mary Beth Henson 225 Varick Street (7th floor) New York, NY 10014

Subject:

Permit No. SW7141103

The Donal C. O'Brien, Jr.: Sanctuary & Audubon Center

Low Density Stormwater Project

Currituck County

Dear Ms. Henson:

The Washington Regional Office received a complete Stormwater Management Permit Application for the subject project on November 12, 2014 and additional information on December 19, 2014. Staff review of the plans and specifications has determined that the project, as proposed, will comply with the Stormwater Regulations set forth in Title 15A NCAC 2H.1000. We are forwarding Permit No. SW7141103 dated December 23, 2014, for the construction of the subject project.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein, and does not supercede any other agency permit that may be required.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. Unless such demands are made this permit shall be final and binding.

If you have any questions, or need additional information concerning this matter, please contact me at (252) 946-6481.

Sincerely,

Samir Dumpor, PE

Environmental Engineer

CC:

Andy Deel, PE, Deel Engineering, PLLC

Currituck County Planning Division

Washington Regional Office

STATE OF NORTH CAROLINA

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF ENERGY, MINERAL, AMD LAND RESOURCES

STORMWATER MANAGEMENT PERMIT

LOW DENSITY DEVELOPMENT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules and Regulations

PERMISSION IS HEREBY GRANTED TO

National Audubon Society, Inc.
The Donal O'Brien, Jr.: Sanctuary & Audubon Center

FOR THE

construction, operation and maintenance of a low density project in compliance with the provisions of 15A NCAC 2H .1000 (hereafter referred to as the "stormwater rules") and the approved stormwater management plans and specifications, and other supporting data as attached and on file with and approved by the Division of Energy, Mineral, and Land Resources (Division) and considered a part of this permit.

The Permit shall be effective from the date of issuance until rescinded and shall be subject to the following specific conditions and limitations:

I. DESIGN STANDARDS

- 1. This permit covers the construction of 191,441 square feet of built-upon area on this 191.87 acres tract of land.
- 2. The overall tract built-upon area percentage for the project must be maintained at or below 24%, as required by Section 2H .1005 of the stormwater rules.
- Approved plans and specifications for projects covered by this permit are incorporated by reference and are enforceable parts of the permit and shall be kept on file by the permittee at all times.
- 4. The only runoff conveyance systems allowed will be vegetated conveyances such as swales with minimum side slopes of 3:1 (H:V) as defined in the stormwater rules and approved by the Division.
- 5. No piping is allowed except that minimum amount necessary to direct runoff beneath an impervious surface such as a road or to provide access.
- 6. The built-upon areas associated with this project shall be located at least 50 feet landward of all perennial and intermittent streams or other surface waters.

II. SCHEDULE OF COMPLIANCE

- 1. The permittee is responsible for verifying that the proposed built-upon area does not exceed the allowable built-upon area.
- 2. The Director may notify the permittee when the permitted site does not meet one or more of the minimum requirements of the permit. Within the time frame specified in the notice, the permittee shall submit a written time schedule to the Director for modifying the site to meet minimum requirements. The permittee shall provide copies of revised plans and certification in writing to the Director that the changes have been made.
- 3. This project may not be sold or subdivided in whole or in part without first receiving a permit modification from the Division.
- 4. Prior to the subdivision and/or sale of this project, in whole or in part, the following deed restrictions must be recorded with the Office of the Register of Deeds:
 - a. The following covenants are intended to ensure ongoing compliance with State Stormwater Management Permit Number SW7141103, as issued by the Division of Energy, Mineral, and Land Resources under NCAC 2H.1000.
 - b. The State of North Carolina is made a beneficiary of these covenants to the extent necessary to maintain compliance with the Stormwater Management Permit.
 - c. These covenants are to run with the land and be binding on all persons and parties claiming under them.
 - d. The covenants pertaining to stormwater may not be altered or rescinded without the express written consent of the State of North Carolina, Division of Energy, Mineral, and Land Resources.
 - e. Alteration of the drainage as shown on the approved plans may not take place without the concurrence of the Division of Energy, Mineral, and Land Resources.
 - f. This project is permitted for a maximum of 24% of built-upon area. Construction of additional built-upon area in excess of this amount will require a permit modification.
 - g. This project may not be sold or subdivided, in whole or in part, without first receiving a permit modification from the Division.
 - h. Construction of additional impervious areas such that low-density requirements are no longer met will require a permit modification prior to construction. An engineered system will be required to collect and treat the runoff from all built-upon area associated with the project, including that area permitted under the low density option.
 - i. Filling in or piping of any vegetative conveyances (ditches, swales, etc.) associated with this development, except for average driveway crossings, is strictly prohibited by any persons.
 - j. The built-upon areas shall be located a minimum of 50 feet landward of all perennial and intermittent surface waters.
- 5. A copy of the recorded restrictions must be received in this Office within 30 days of the date of sale.
- 6. Filling in or piping of any vegetative conveyances (ditches, swales, etc.) associated with the permitted development, except for average driveway crossings, is strictly prohibited by any persons.

- 7. The permittee shall submit to the Director and shall have received approval for revised plans, specifications, and calculations prior to construction, for any modification to the approved plans, including, but not limited to, those listed below:
 - a. Any revision to the approved plans, regardless of size.
 - b. Project name change.
 - c. Transfer of ownership.
 - d. Redesign or addition to the approved amount of built-upon area.
 - e. Further subdivision, acquisition, or sale of the project area in whole or in part. The project area is defined as all property owned by the permittee, for which Sedimentation and Erosion Control Plan approval was sought.
 - f. Filling in, altering or piping any vegetative conveyance shown on the approved plan.
- 8. Swales and other vegetated conveyances shall be constructed in their entirety, vegetated, and be operational for their intended use prior to the construction of any built-upon surface.
- During construction, erosion shall be kept to a minimum and any eroded areas of the swales or other vegetated conveyances will be repaired immediately.
- 10 The permittee shall at all times provide the operation and maintenance necessary to operate the permitted stormwater management systems at optimum efficiency to include:
 - a. Inspections
 - b Sediment removal.
 - c. Mowing, and re-vegetating of the side slopes.
 - Immediate repair of eroded areas.
 - e. Maintenance of side slopes in accordance with approved plans and specifications.
- 11. Within 30 days of completion of the project, the permittee shall certify in writing that the project has been constructed in accordance with the approved plans.
- 12. The permittee shall submit all information requested by the Director or his representative within the time frame specified in the written information request.

III. GENERAL CONDITIONS

- 1. This permit is not transferable to any person or entity except after notice to and approval by the Director. The Director may require modification or revocation and re-issuance of the permit to change the name and incorporate such other requirements as may be necessary. In the event of a name or ownership change, a completed Name/Ownership Change form, signed by both parties, must be submitted to the Division accompanied by the supporting documentation as listed on page 2 of the form. The approval of this request will be considered on its merits, and may or may not be approved.
- 2. The permittee is responsible for compliance with all permit conditions until the Director approves a transfer of ownership. Neither the sale of the project nor the transfer of common areas to a third party, such as a homeowner's association, constitutes an approved transfer of the stormwater permit.

- 3. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division, in accordance with North Carolina General Statutes 143-215.6A to 143-215.6C.
- 4. The issuance of this permit does not prohibit the Director from reopening and modifying the permit, revoking and reissuing the permit, or terminating the permit as allowed by the laws, rules, and regulations contained in Title 15A NCAC 2H 1000 of the North Carolina Administrative Code, Subchapter 2H.1000; and North Carolina General Statute 143-215.1 et. al.
- 5. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by the Division, such as the construction of additional or replacement stormwater management systems.
- 6. The permittee grants permission to DENR Staff to enter the property during normal business hours, for the purpose of inspecting all components of the stormwater management facility.
- 7. The permit issued shall continue in force and effect until revoked or terminated. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and re-issuance, or termination does not stay any permit condition.
- 8. Unless specified elsewhere, permanent seeding requirements for the swales must follow the guidelines established in the North Carolina Erosion and Sediment Control Planning and Design Manual.
- 9. Approved plans and specifications for this project are incorporated by reference and are enforceable parts of the permit.
- 10. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances, which may be imposed by other government agencies (local, state and federal), which have jurisdiction.
- 11. The permittee shall notify the Division in writing of any name, ownership or mailing address changes at least 30 days prior to making such changes.

Permit issued this the 23th day of December, 2014.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Tracy E. Davis, PE, CPM

Division of Energy, Mineral, and Land Resources

By Authority of the Environmental Management Commission

Permit No. SW7141103

			DEMLR USE ON	LY	
Date Rece	eived		Fee Paid		Permit Number
Applicable Rules:	☐ Coastal SW -	1995	☐ Coastal SW -	- 2008	☐ Ph II - Post Construction
(select all that apply)	☐ Non-Coastal	SW- HQW	//ORW Waters	☐ Univer	sal Stormwater Management Plan
	\square Other WQ M	gmt Plan:			

State of North Carolina Department of Environment and Natural Resources Division of Energy, Mineral and Land Resources

STORMWATER MANAGEMENT PERMIT APPLICATION FORM

This form may be photocopied for use as an original

I.	GENERAL INFORMATION
1.	Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans, specifications, letters, operation and maintenance agreements, etc.):
	The Donal C. Obrien, Jr.: Sanctuary & Audubon Center
2.	Location of Project (street address):
	305 Audubon Drive
	City:Corolla County:Currituck Zip:27927
3.	Directions to project (from nearest major intersection):
	Project is located approximately 850 feet west of the intersection of NC 12 and Audubon Drive (at the western
	terminus of Audubon Drive) in the Pine Island section of Corolla, Currituck County, NC
4.	Latitude: 36° 15′ 41.89″ N Longitude: 75° 47′ 26.67″ W of the main entrance to the project.
II. 1. a	PERMIT INFORMATION: a. Specify whether project is (check one): ☐ New ☐ Modification ☐ Renewal w/ Modification [†] †Renewals with modifications also requires SWU-102 - Renewal Application Form
b	o. If this application is being submitted as the result of a modification to an existing permit, list the existing permit number, and the status of construction: Not Started Partially Completed* Completed* *provide a designer's certification
2.	Specify the type of project (check one): ☐ Low Density ☐ High Density ☐ Drains to an Offsite Stormwater System ☐ Other
3.	If this application is being submitted as the result of a previously returned application or a letter from DEMLR requesting a state stormwater management permit application , list the stormwater project number, if assigned, N/A and the previous name of the project, if different than currently proposed,
4. a	. Additional Project Requirements (check applicable blanks; information on required state permits can be obtained by contacting the Customer Service Center at 1-877-623-6748):
	☐ CAMA Major ☐ Sedimentation/Erosion Control: <u>6.07</u> ac of Disturbed Area
	□NPDES Industrial Stormwater □404/401 Permit: Proposed Impacts
b	o. If any of these permits have already been acquired please provide the Project Name, Project/Permit Number, issue date and the type of each permit: N/A
5.	Is the project located within 5 miles of a public airport? No Yes If yes, see S.L. 2012-200, Part VI: http://portal.ncdenr.org/web/lr/rules-and-regulations

III. CONTACT INFORMATION

designated government official, individual, e	etc. who owns the project).		
Applicant/Organization: National Audubon So	ociety, Inc.		
Signing Official & Title: Mary Beth Henson, G	Chief Financial Officer		
b. Contact information for person listed in item	1a above:		
Street Address: 225 Varick Street		7th Fl	oor
City:New York	State: <u>NY</u>	Zip: <u>10014</u>	
Mailing Address (if applicable):same			
City:	State:	Zip:	
Phone: (212) 979-3162	Fax: <u>(212</u>) 979-3160	
Email: <u>mbhenson@audubon.org</u>			
 ☐ Lessee* (Attach a copy of the lease agreen ☐ Purchaser* (Attach a copy of the pending 2b below) ☐ Developer* (Complete Contact Information. a. Print Property Owner's name and title below 	sales agreement and comple on, item 2a and 2b below.)	ete Contact Information, item 2a ai	
person who owns the property that the proje	, ,	aser of developer. (This is the	
Property Owner/Organization: National Audu	ubon Society, Inc.		
Signing Official & Title: Mary Beth Henson, G	Chief Financial Officer		
b. Contact information for person listed in item	2a above:		
Street Address: 225 Varick Street		7th Fl	oor
City: <u>New York</u>	State: <u>NY</u>	Zip: <u>10014</u>	
Mailing Address (if applicable):same			
City:	State:	Zip:	
Phone: (212) 979-3162	Fax: <u>(212</u>) 979-3160	
Email:mbhenson@audubon.org			
.a. (Optional) Print the name and title of another person who can answer questions about the J		's construction supervisor or other	•
	. ,		
Other Contact Person/Organization: Robert F	. ,		
	Searn		
	Fearn		
Signing Official & Title: Center Director	Gearn 3a above:		
Signing Official & Title: Center Director b. Contact information for person listed in item	Gearn 3a above:		
Signing Official & Title: Center Director b. Contact information for person listed in item Mailing Address: 300 Audobon Drive	Gearn 3a above: State: NC		
Signing Official & Title: Center Director b. Contact information for person listed in item Mailing Address: 300 Audobon Drive City: Corolla	Gearn 3a above: State: NC Fax: (252	Zip: <u>27927</u>	
Signing Official & Title: Center Director b. Contact information for person listed in item Mailing Address: 300 Audobon Drive City: Corolla Phone: (252) 453-0603	State: NC Fax: (252	Zip: <u>27927</u>	

IV. PROJECT INFORMATION

1.	In the space provided below, <u>briefly</u> summarize how the stormwater runoff will be treated.										
	Project imprevious area is disconnected and spread throughout the main "campus" in such a way that runoff										
	is spread to surrounding landscaped areas for infiltration. Additionally, the main road through the site is										
	proposed to be a "Grasspave" system and the proposed parking lot shall be permeable concrete.										
2. a	Approval of a Site Specific Development Plan or PUD Valid Building Permit Other: N/A Approval of a Site Specific Development Plan or PUD Approval Date: Issued Date: Date:										
ŀ	o. If claiming vested rights , identify the regulation(s) the project has been designed in accordance with: Coastal SW – 1995 Ph II – Post Construction										
3.	Stormwater runoff from this project drains to the <u>Pasquotank</u> River basin.										
4.	Total Property Area: +/- 353.97 acres 5. Total Coastal Wetlands Area: +/- 153.9 acres 6. Total Surface Water Area: 8.2 acres										
7.	Total Property Area (4) – Total Coastal Wetlands Area (5) – Total Surface Water Area (6) = Total Project Area ⁺ : 191.87 acres										
	⁺ Total project area shall be calculated to exclude the following: the normal pool of impounded structures, the area between the banks of streams and rivers, the area below the Normal High Water (NHW) line or Mean High Water (MHW) line, and coastal wetlands landward from the NHW (or MHW) line. The resultant project area is used to calculate overall percent built upon area (BUA). Non-coastal wetlands landward of the NHW (or MHW) line may be included in the total project area.										
8.	Project percent of impervious area: (Total Impervious Area / Total Project Area) X 100 = 2.29 %										
9.	How many drainage areas does the project have? 1 (For high density, count 1 for each proposed engineered stormwater BMP. For low density and other projects, use 1 for the whole property area)										
10.	Complete the following information for each drainage area identified in Project Information item 9. If there are more than four drainage areas in the project, attach an additional sheet with the information for each area provided in the same format as below.										

Basin Information	Drainage Area <u>1</u>	Drainage Area	Drainage Area	Drainage Area
Receiving Stream Name	Currituck Sound			
Stream Class *	SC			
Stream Index Number *	30-1			
Total Drainage Area (sf)	8,357,857 sf			
On-site Drainage Area (sf)	8,357,857 sf			
Off-site Drainage Area (sf)	0			
Proposed Impervious Area** (sf)	191,441 sf			
% Impervious Area** (total)	2.29 %			

Impervious** Surface Area	Drainage Area <u>1</u>	Drainage Area	Drainage Area	Drainage Area
On-site Buildings/Lots (sf)	3,621 sf			
On-site Streets (sf)	27,035 sf			
On-site Parking (sf)	6,139 sf			
On-site Sidewalks (sf)	6,270 sf			
Other on-site (sf)	245 sf			
Future (sf)	90,000 sf			
Off-site (sf)	n/a			
Existing BUA*** (sf)	58,131 sf			
Total (sf):	191,441 sf			

Stream Class and Index Number can be determined at: http://portal.ncdenr.org/web/wq/ps/csu/classifications

^{**} Impervious area is defined as the built upon area including, but not limited to, buildings, roads, parking areas, sidewalks, gravel areas, etc.

*** Report only that amount of existing BUA that will remain after development. Do not report any existing BUA that

is to be removed and which will be replaced by new \overline{BUA} .

11.	How was the off-site impervious area listed above determined? Provide documentation.	
	AutoCAD Area Routine	
	ects in Union County: Contact DEMLR Central Office staff to check if the project is located within a The angered Species watershed that may be subject to more stringent stormwater requirements as per 15A NC.	
V.	SUPPLEMENT AND O&M FORMS	
mus	applicable state stormwater management permit supplement and operation and maintenance (Cost be submitted for each BMP specified for this project. The latest versions of the forms can be don http://portal.ncdenr.org/web/wq/ws/su/bmp-manual .	
VI.	SUBMITTAL REQUIREMENTS	
Lan inst http sub	y complete application packages will be accepted and reviewed by the Division of Energy, M d Resources (DEMLR). A complete package includes all of the items listed below. A detailed ruction sheet and BMP checklists are available from mos//portal.ncdenr.org/web/wq/ws/su/statesw/forms_docs . The complete application package mitted to the appropriate DEMLR Office. (The appropriate office may be found by locating protractive online map at http://portal.ncdenr.org/web/wq/ws/su/maps .)	d application se should be
	ase <u>indicate that the following required information have been provided by initialing</u> in the sp	
	each item. All original documents MUST be signed and initialed in blue ink. Download the late	
ror	each submitted application package from http://portal.ncdenr.org/web/wq/ws/su/statesw/	Initials
1.	Original and one copy of the Stormwater Management Permit Application Form.	DAD
2.	Original and one copy of the signed and notarized Deed Restrictions & Protective Covenants Form. (if required as per Part VII below)	N/A
3.	Original of the applicable Supplement Form(s) (sealed, signed and dated) and O&M agreement(s) for each BMP.	DAD
4.	Permit application processing fee of \$505 payable to NCDENR. (For an Express review, refer to http://www.envhelp.org/pages/onestopexpress.html for information on the Express program and the associated fees. Contact the appropriate regional office Express Permit Coordinator for additional information and to schedule the required application meeting.)	_ QAQ
5.	A detailed narrative (one to two pages) describing the stormwater treatment/management for the project. This is required in addition to the brief summary provided in the Project Information, item 1.	DAD
6.	A USGS map identifying the site location. If the receiving stream is reported as class SA or the receiving stream drains to class SA waters within $\frac{1}{2}$ mile of the site boundary, include the $\frac{1}{2}$ mile radius on the map.	DAD
7.	Sealed, signed and dated calculations (one copy).	DAD
8.	Two sets of plans <u>folded to $8.5'' \times 14'''$</u> (sealed, signed, & dated), including: a. Development/Project name. b. Engineer and firm.	DAD
	c. Location map with named streets and NCSR numbers. d. Legend. e. North arrow. f. Scale.	
	g. Revision number and dates.h. Identify all surface waters on the plans by delineating the normal pool elevation of impounded structures, the banks of streams and rivers, the MHW or NHW line of tidal	
	 waters, and any coastal wetlands landward of the MHW or NHW lines. Delineate the vegetated buffer landward from the normal pool elevation of impounded structures, the banks of streams or rivers, and the MHW (or NHW) of tidal waters. i. Dimensioned property/project boundary with bearings & distances. 	
	 j. Site Layout with all BUA identified and dimensioned. k. Existing contours, proposed contours, spot elevations, finished floor elevations. l. Details of roads, drainage features, collection systems, and stormwater control measures. 	
	m. Wetlands delineated, or a note on the plans that none exist. (Must be delineated by a qualified person. Provide documentation of qualifications and identify the person who made the determination on the plans.	
	n. Existing drainage (including off-site), drainage easements, pipe sizes, runoff calculations.o. Drainage areas delineated (included in the main set of plans, not as a separate document).	

p. Vegetated buffers (where required).		242
9. Copy of any applicable soils report with the associat elevations in addition to depths) as well as a map of elevations and boring logs. Include an 8.5"x11" copy project area clearly delineated. For projects with infinitude the soil type, expected infiltration rate, and to (Infiltration Devices submitted to WiRO: Schedule of the projects of the project of the pr	the boring locations with the existing y of the NRCS County Soils map with the iltration BMPs, the report should also the method of determining the infiltration	
to submittal, (910) 796-7378.) 10. A copy of the most current property deed. Deed boo	ok: 913 Page No: 150	DAD
11. For corporations and limited liability corporations (I Secretary of State or other official documentation, which by the persons listed in Contact Information, item 1a The corporation or LLC must be listed as an active of Secretary of State, otherwise the application will be http://www.secretary.state.nc.us/Corporations/CS	LLC): Provide documentation from the Norhich supports the titles and positions held a, 2a, and/or 3a per 15A NCAC 2H.1003(e orporation in good standing with the NC returned.	DAD
VII. DEED RESTRICTIONS AND PROTECTIVE CO	VENANTS	
For all subdivisions, outparcels, and future development covenants are required to be recorded prior to the sale of BUA allocations vary, a table listing each lot number, lot as an attachment to the completed and notarized deed reprotective covenants forms can be downloaded from https://docs.nownload.no.nih.gov/ . Download the latest versions for each subm	f any lot. If lot sizes vary significantly or the size, and the allowable built-upon area mestriction form. The appropriate deed resp://portal.ncdenr.org/web/lr/state-stormw	the proposed nust be provided trictions and
In the instances where the applicant is different than the owner to sign the deed restrictions and protective coven that the deed restrictions are recorded.		
By the notarized signature(s) below, the permit holder protective covenants for this project, if required, shall on the forms available on the website, that the covena- under them, that they will run with the land, that the r without concurrence from the NC DEMLR, and that the	include all the items required in the per nts will be binding on all parties and per required covenants cannot be changed or	mit and listed rsons claiming r deleted
VIII. CONSULTANT INFORMATION AND AUTHO	PRIZATION	
Applicant: Complete this section if you wish to designate consulting engineer and/or firm) so that they may provide addressing requests for additional information).		
Consulting Engineer: David A. Deel, P.E.	<u></u>	
Consulting Firm: Deel Engineering, PLLC	<u> </u>	
Mailing Address: P.O. Box 3901		
City:Kill Devil Hills		
Phone: (252) 202-3803		
Email:dadeeleng@gmail.com	_	
IX. PROPERTY OWNER AUTHORIZATION (if Contaged)	act Information, item 2 has been filled out, cor	nplete this
I, (print or type name of person listed in Contact Information, own the property identified in this permit application, a listed in Contact Information, item 1a) Contact Information, item 1a) the lease agreement or pending property sales contract I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the operation and maintenance of the contact I party responsible for the contact I party responsible for the operation and the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the contact I party responsible for the	nd thus give permission to (print or type na with (print or type name of organi _ to develop the project as currently propens has been provided with the submittal, whi	ame of person zation listed in osed. A copy of

As the legal property owner I acknowledge, understand, and agree by my signature below, that if my designated agent (entity listed in Contact Information, item 1) dissolves their company and/or cancels or defaults on their lease agreement, or pending sale, responsibility for compliance with the DEMLR Stormwater permit reverts back to me, the property owner. As the property owner, it is my responsibility to notify DEMLR immediately and submit a completed Name/Ownership Change Form within 30 days; otherwise I will be operating a stormwater treatment facility without a valid permit. I understand that the operation of a stormwater treatment facility without a valid permit is a violation of NC General Statue 143-215.1 and may result in appropriate enforcement action including the assessment of civil penalties of up to \$25,000 per day, pursuant to NCGS 143-215.6.

Signature:		Date:
I,	, a Notary Public for the State of	, County of
, do hereby certif	y that	personally appeared
before me this day of	,, and acknowledge the due e	execution of the application for
a stormwater permit. Witness my hand	and official seal,	
	SEAL My commission expires	
X. APPLICANT'S CERTIFICATION		
and protective covenants will be record applicable stormwater rules under 15A	ntact Information, item 1a) Mary Beth this permit application form is, to the best onformance with the approved plans, that the d, and that the proposed project complies NCAC 2H .1000 and any other applicable s	he required deed restrictions with the requirements of the state stormwater requirements.
New York , do hereby certif	, a Notary Public for the State of <u>Ne</u> fy that <u>Mary Beth Henson</u>	personally appeared
before me this 20 day of October	, <u>2019</u> _, and acknowledge the due of	execution of the application for
a stormwater permit. Witness my hand	and official seal, Janua G. Pa	ug
JASMIN G. PARRA Notary Public - State of New York No. 01PA6137018 Qualified in New York County My Commission Expires February 17, 20 18	SEAL	
	My commission expires February 17	- 2018

Permit No.	
-	(to be provided by DEMLR)

State of North Carolina Department of Environment and Natural Resources Division of Energy, Mineral and Land Resources

STORMWATER MANAGEMENT PERMIT APPLICATION FORM

LOW DENSITY SUPPLEMENT

This form may be photocopied for use as an original

A low density project is one that meets the appropriate criteria for built upon area and transports stormwater runoff primarily through vegetated conveyances. Low density projects should not have a discrete stormwater collection system as defined by 15A NCAC 2H .1002(18). Low density requirements and density factors can be found in Session Law 2008-211, 15A NCAC 2H .1000, Session Law 2006-246 and the State of North Carolina Stormwater Best Management Practice Manual. Curb and gutter systems are allowed provided they meet the requirements in 15A NCAC 2H .1008(g).

I. PROJECT INFORMATION

Project Name: The Donal C. Obrien,	Jr.: Sanctuary & Audubon Center
Contact Person: <u>David A. Deel, P.E.</u>	Phone Number: (252)202-3803
Number of Lots: <u>1</u>	Allowable Built Upon Area (BUA) Per Lot*:2,005,886 sf Number of Dwelling Units Per Acre**:n/a
Low Density Development (check one):	
	indicating the number of lots, lot sizes and allowable built upon area for each lot. me, phase, page numbers and provide area subtotals and totals. BUA shall be
**(Phase II Post-Construction [non-SA] on	ly)

II. BUILT UPON AREA

Refer to DEMLR's forms and applications website for specific language that must be recorded in the deed restrictions for all subdivided projects. (http://portal.ncdenr.org/web/lr/state-stormwater-forms_docs)

Complete the following calculation in the space provided below where:

- SA Site Area the total project area above Mean High Water.
- DF Density Factor the appropriate percent built upon area divided by 100.
- RA Road Area the total impervious surface occupied by roadways.
- OA Other Area the total area of impervious surfaces such as clubhouses, tennis courts, sidewalks, etc.
- No. of Lots the total number of lots in the subdivision.
- BUA per Lot the computed allowable built upon area for each lot including driveways and impervious surfaces located between the front lot line and the edge of pavement.
- Total allowable lot BUA the computed allowable built upon area for all lots combined.
- Total BUA from lot listing the sum of built upon area allocated for each lot on the list of non-uniform lots.

Calculation:

For uniform lot sizes:

(SA: $ft^2 \times DF$:) – (RA: ft^2) – (OA: ft^2) = BUA per Lot = ft^2 (No of Lots: $\underline{1}$)

For non-uniform lot sizes:

a. (SA: <u>8357857</u> ft² x DF: <u>0.24</u>) – (RA: $\underline{0}$ ft²) – (OA: $\underline{0}$ ft²) = Total allowable lot BUA = <u>2005886</u> ft²

b. Total BUA from lot listing: $\underline{191,441}$ sf. **b must be** \leq **a**

III. DESIGN INFORMATION

Complete the following table. If additional space is needed the information should be provided in the same format as Table 1 and attached to this form. Rainfall intensity data can be found in Appendix 8.03 of the State of North Carolina Erosion and Sediment Control Planning and Design Manual or at http://hdsc.nws.noaa.gov/hdsc/pfds/

Table 1. Swale design information based on the **10-year storm**.

Swale No.	Drainage	Impervious		С	Q	Slope	$V_{ m allow}$	Vactual	Flow
	Area (ac)	Area (ac)	Area (ac)		(cfs)	(%)	(fps)	(fps)	Depth (ft)
1	N/A								
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

IV. REQUIRED ITEMS CHECKLIST

The following checklist outlines design requirements per the North Carolina Administrative Code Section 15A NCAC 2H .1000, NCDENR BMP Manual (2007), Session Law 2006-246, and Session Law 2008-211.

Please indicate the page or plan sheet numbers where the supporting documentation can be found. An incomplete submittal package will result in a request for additional information. This will delay final review and approval of the project. Initial in the space provided to indicate that the following requirements have been met and supporting documentation is provided as necessary. If the applicant has designated an agent on the Stormwater Management Permit Application Form, the agent may initial below. If any item is not met, then justification must be attached. Only complete items n through p for projects with curb outlets.

Page/Plan	
Initials Sheet No.	For projects in the 20 coastal counties, Dec NGA C 211 1005 a 50 foot wild acceptable by 65 m
DRUM'CZIO a.	For projects in the 20 coastal counties: Per NCAC 2H.1005, a 50 foot wide vegetative buffer
	is provided adjacent to surface waters. For Redevelopment projects, a 30' wide vegetative
000 (-0 5 †	buffer adjacent surface waters is provided.
DAD 62.0 b.	For HQW or ORW projects outside the 20 coastal counties: A 30 foot wide vegetative buffer
Dan +	is provided adjacent to surface waters.
DAD (2,0 c.)	For Phase II Post-Construction projects: All built upon area is located at least 30 feet
	landward of all perennial and intermittent surface waters.
<u>N/A N/A</u> d.	Deed restriction language as required on form SWU-101 shall be recorded as a restrictive
. 1	covenant. A copy of the recorded document shall be provided to DWQ within 30 days of
Supplanent	platting and prior to the sale of any lots.
DAD Narraine	Built upon area calculations are provided for the overall project and all lots.
DAD Plans f.	Project conforms to low density requirements within the ORW AEC. (if applicable per
NIA	15A NCAC 2H .1007)
<u>DAD</u> <u>C2.0</u> g.	Side slopes of swales are no steeper than 3:1; or no steeper than 5:1 for curb outlet swales.
N/A N/A h.	Longitudinal slope of swales is no greater than 5%; for non-curb outlet projects,
	calculations for shear stress and velocity are provided if slope is greater than 5%.
<u>N/A N/A</u> i.	At a minimum, swales are designed to carry the 10 year storm velocity at a non-erosive rate.
N/A N/A j.	Swales discharging to wetlands are designed to flow into and through the wetlands at a non-
	erosive velocity (for this flow requirement into wetlands, non-erosive is velocity ≤ 2 ft/s).
N// \tag{k}	Swale detail and permanent vegetation is specified on the plans.
1.	Swale detail provided on plans; includes grass type(s) for permanent vegetative cover.
m.	Swales are located in recorded drainage easements.
<u> </u>	Length of swale or vegetated area is at least 100 feet for each curb outlet.
DAD Natrative o. ++	The system takes into account the run-off at ultimate built-out potential from all surfaces
	draining to the system (delineate drainage area for each swale).
N/A p.††	Curb outlets direct flow to a swale or vegetated area.
† Projects in the New	ise, Tar-Pamlico, Catawba River basins, and Randleman Lake may require additional buffers.

North Carolina Department of Environmental Quality Division of Energy, Mineral & Land Resources Land Quality Section

Roy Cooper
Governor
Elizabeth S. Biser
Secretary
William Vinson Jr. (Acting)
Director

11-28-2023

LETTER OF APPROVAL

National Audubon Society, Inc. 225 Varick Street, 7th Floor New York, NY 10014

RE: Project Name: The Donald C. O'Brien Jr. Sanctuary and Audubon Center

Acres Approved: 5.45 Application ID: PA-001307

Permit Number: CURRI-2024-0101

Address: 305 Audubon Drive

City: Corolla County: Currituck

River Basin: Pasquotank

Stream Classification: SC: Aquatic Life, Secondary Contact Recreation, Tidal Salt Water

Plan Type: New Plan

Dear Ms. Hatley,

This office has reviewed the subject erosion and sedimentation control plan. We find the plan to be acceptable and hereby issue this Letter of Approval. The Certificate of Approval must be posted at the job site. This plan approval shall expire three (3) years following the date of approval, if no land-disturbing activity has been undertaken, as is required by Title 15A NCAC 4B .0129.

As of April 1, 2019, all new construction activities are required to complete and submit an electronic Notice of Intent (eNOI) form requesting a Certificate of Coverage (COC) under the NCG010000 Construction Stormwater General Permit. After the form is reviewed and found to be complete, you will receive a link with payment instructions for the \$120 annual permit fee. After the fee is processed, you will receive the COC via email. As the Financially Responsible Party shown on the FRO form submitted for

this project, you MUST obtain the COC prior to commencement of any land disturbing activity. The eNOI form may be accessed at <u>deq.nc.gov/NCG01</u>. Please direct questions about the eNOI form to the <u>Stormwater Program staff</u> in the Raleigh central office. If the owner/operator of this project changes in the future, the new responsible party must obtain a new COC.

Title 15A NCAC 4B .0118(a) and the NCG01 permit require that the following documentation be kept on file at the job site:

- 1. The approved E&SC plan as well as any approved deviation.
- 2. The NCG01 permit and the COC, once it is received.
- 3. Records of inspections made during the previous 12 months.

Also, this letter gives the notice required by G.S. 113A-61.1(a) of our right of periodic inspection to ensure compliance with the approved plan.

North Carolina's Sedimentation Pollution Control Act is performance-oriented, requiring protection of existing natural resources and adjoining properties. If, following the commencement of this project, the erosion and sedimentation control plan is inadequate to meet the requirements of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statute 113A-51 through 66), this office may require revisions to the plan and implementation of the revisions to insure compliance with the Act.

Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations, and rules. In addition, local city or county ordinances or rules may also apply to this land-disturbing activity. This approval does not supersede any other permit or approval.

Please note that this approval is based in part on the accuracy of the information provided in the Financial Responsibility/Ownership Form, which you provided. You are requested to file an amended form if there is any change in the information included on the form. In addition, it would be helpful if you notify this office of the proposed starting date for this project. Please notify us if you plan to have a preconstruction conference.

Your cooperation is appreciated.

Sincerely,

J. Randall Jones, Jr, PE

North Carolina Department of Environmental Quality Division of Energy, Mineral & Land Resources Land Quality Section

North Carolina Department of Environmental Quality | Division of Energy, Mineral and Land Resources Washington Regional Office | 943 Washington Square Mall | Washington NC, 27889 252-946-6481

Check if this project is ARPA-funded	
Attach a copy of the Letter of Intent to Fund	

FINANCIAL RESPONSIBILITY/OWNERSHIP FORM SEDIMENTATION POLLUTION CONTROL ACT

No person may initiate any land-disturbing activity on one or more acres as covered by the Act, including any activity under a common plan of development of this size as covered by the NCG01 permit, before this form and an acceptable erosion and sedimentation control plan have been completed and approved by the Land Quality Section, N.C. Department of Environmental Quality. Submit the completed form to the appropriate Regional Office. (Please type or print and, if the question is not applicable or the e-mail address or phone number is unavailable, place N/A in the blank.)

1.	Project NameThe Donal C. O'Brien Jr. Sanctuary and Audubon Center
	*If this project involves American Rescue Plan Act (ARPA) funds, list the Project Name or Project Number (e.g., SRP-D-ARP-0121) below under which you were approved for funding through the Division of Water Infrastructure (DWI).
2.	Location of land-disturbing activity: County <u>Currituck</u> City or Township <u>Corolla</u>
	Highway/Street 305 Audubon Dr. Latitude _(decimal degrees) 36.26163611 N Longitude _(decimal degrees) 75.79815 W
3.	Approximate date land-disturbing activity will commence: <u>July 2023</u>
4.	Purpose of development (residential, commercial, industrial, institutional, etc.):Institutional/ Residential _
5.	Total acreage disturbed or uncovered (including off-site borrow and waste areas): 5.45 ac.
6.	Amount of fee enclosed: \$\$600.00 The application fee of \$100.00 per acre (rounded up to the next acre) is assessed without a ceiling amount (Example: 8.10-acre application fee is \$900). Checks should be addressed to NCDEQ.
7.	Has an erosion and sediment control plan been filed? Yes \square Enclosed \boxtimes No \square
8.	Person to contact should erosion and sediment control issues arise during land-disturbing activity:
	Name Robert Fearn, Center Director E-mail Address <u>rfearn@audubon.org</u>
	Phone: Office # Mobile #
9.	Landowner(s) of Record (attach accompanied page to list additional owners):
	National Audubon Society, Inc. 212-979-3000
	Name Phone: Office # Mobile #
	225 Varick Street, 7 th Floor 225 Varick Street, 7 th Floor
	Current Mailing Address Current Street Address
	New York NY 1001 New York NY 1001
	City State Zip City State Zip
10.	Deed Book No. 913 Page No. 150 Provide a copy of the most current deed.

Part B.

		neeta.hatley@audubon.org _ E-mail Address				
225 Variet Stree	t 7 th Floor		225 Varick St	root 7 th Floor		
Current Mailing A	ddress		Current Street A	Address		
· ·						
New York, N	<u>Y 10014</u> State	<u>Zip</u>	New York, I	NY 10014	ate	7i.
City	State	ΖIÞ	City	Sia	ale	Zip
Phone: Office # _	212 979-3000	Mobile #				
owner's signed and to conduct the antice and the conduct the antice and the conduct the conduct the conduct the conduct and the conduct th	y Responsible Party is I dated written consent cipated land disturbing a Responsible Party is a live name and street add	for the appactivity.	plicant to submit a company registered	draft erosion I on the NC Se	and sedimentation	
lame of Registered Agent		E-mail	Address			
Current Mailing Address			Current Street Address			
City	State	Zip	City		State	Zip
No. 20 Office H		Mah	.ilo.#			
hone: Office #		IVIOD	ile #			-
	o Contact (if Pogistores		a company)			
lama of Individual t	J Contact (II Registered	Agentis	a company)			
ame of Individual t						ldress of
b) If the Financiall	ly Responsible Party is arolina agent who is re	gistered on				
b) If the Financiall designated North C	arolina agent who is re	gistered or				
(b) If the Financiall designated North C National Register	arolina agent who is request		l Address			
(b) If the Financiall designated North C <u>National Register</u> lame of Registered	arolina agent who is recorded Agents, Inc.	E-mail		reet		
designated North C	arolina agent who is reconstructed Agents, Inc. d Agent Street	E-mail	Address 150 Fayetteville Str			
(b) If the Financiall designated North C National Register dame of Registered 150 Fayetteville current Mailing Add	ered Agents, Inc. d Agent Street ress	E-mail	150 Fayetteville Stı Current Street A	Address	27601	
b) If the Financiall designated North C <u>National Register</u> ame of Registered	arolina agent who is reconstructed Agents, Inc. d Agent Street	E-mail	150 Fayetteville Str			

1. Company(ies) who are financially responsible for the land-disturbing activity (Provide a comprehensive list of all responsible parties on accompanied page.) If the company is a sole proprietorship or if the landowner(s) is an individual(s), the name(s) of the owner(s) may be listed as the financially responsible party(ies).

the company is Doing Business As. If the Financia	n business under an assumed name, give name under which Ily Responsible Party is an individual, General Partnership, or nder an assumed name, attach a copy of the Certificate of
Assumed Name.	
Company DBA Name	
(This form must be signed by the Financially Responsible individual, by an officer, director, partner, or registered ag	my knowledge and belief and was provided by me under oath. e Person if an individual(s) or his attorney-in-fact, or if not an ent with the authority to execute instruments for the Financially ation should there be any change in the information provided
Neeta Hatley	Toller, Treasury & Financial Operations Title or Authority 8 29 2023 Date
State of North-Carolina, hereby certify that Nee to and being duly sworn acknowledged that the above form v	
Witness my hand and notarial seal, this 29th day of A	ugust , 20 <u>23</u>
JASMIN GRISEL PARRA Notary Public - State of New York No. 01 PA6137018 Qualified in New York County My Commission Expires February 17, 20 2 6	Notary My commission expires 2 17 7226

STATE OF NORTH CAROLINA

Department of Environmental Quality and

Coastal Resources Commission



X Major Development in an Area of Environmental Concern pursuant to NCGS 113A-118

X Excavation and/or filling pursuant to NCGS 113-229

Issued to National Audubon Society, 300 Audubon I	Orive, Corolla, NC 27927				
Authorizing development in Dare	County adjacent to Currituck Sound, 300 Audubon Drive, in				
Corolla ,	requested in the permittee's application dated letter dated				
4/20/23.					
This permit, issued on April 26, 2023 with the permit), all applicable regulations, special cond be subject to fines, imprisonment or civil action; or may	_, is subject to compliance with the application (where consistent litions and notes set forth below. Any violation of these terms may cause the permit to be null and void.				
1) This renewal shall be attached to Permit N	o.107-15, which was issued to the permittee on 9/30/15, as ions and copies of all documents shall be readily available				
2) All conditions and stipulations of the activ	e permit remain in force under this renewal.				
NOTE: The N.C. Division of Water Resource 2019-1225.	rces has assigned the proposed project DWR Project No.				
NOTE: The U.S. Army Corps of Engineers 2019-01758.	The U.S. Army Corps of Engineers has assigned the proposed project SAW Action Id. No. 2019-01758.				
NOTE: A permit renewal application proce	ssing fee of \$100 was received by DCM for this project.				
This permit action may be appealed by the permittee of other qualified persons within twenty (20) days of the issuing date.	Signed by the authority of the Secretary of DEQ and the Chair of the Coastal Resources Commission.				
This permit must be accessible on-site to Department personnel when the project is inspected for compliance.	J. Howell				
Any maintenance work or project modification not covered hereunder requires further Division approval.	For Braxton C. Davis, Director Division of Coastal Management				
All work must cease when the permit expires on	This permit and its conditions are hereby accepted.				
December 31, 2024					
In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.					
**************************************	Signature of Permit				