Carolina Water Service
of North Carolina™

August 21, 2023

Quibble & Associates, P.C.
8466 Caratoke Highway, Bldg. 400
Powells Point, NC 27966

Re: Corolla Bay Section II, lots 61 through 62
Willingness to Serve, Capacity Commitment letter.

To Whom It May Concern,

Carolina Water Service, Inc. of North Carolina ("CWSNC") provides sanitary sewer utility service to the Monteray Shores and adjacent developments and of which encompass the above referenced project and property. CWSNC is a franchised and regulated public utility company in the state of North Carolina.

CWSNC is willing and able to provide the sanitary sewer utility needs for the above referenced lots for the capacity of (1) residential home to be constructed on each lot.

Should you have any questions, please do not hesitate to contact me directly in our Charlotte Office at 704-525-7990 or by email at Tony.Konsul@Carolinawaterservicenc.com.

Thank you in advance for your attention.

Sincerely,

Tony Konsul
Director, State Operations

Cc: Travis Tucker
Donna Stegall
Julie Haver

North Carolina Department of Environment and Natural Resources
Division of Water Resources
Water Quality Programs
Thomas A. Reeder
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

November 1, 2013

MARTIN LASHUA – REGIONAL DIRECTOR
CAROLINA WATER SERVICE, INC. OF NC
POST OFFICE BOX 240908
CHARLOTTE, NORTH CAROLINA 28224-0908

Subject: Permit No. WQ0009772
Monteray Shores WWTP
High-Rate Infiltration System
Currituck County

Dear Mr. Lashua:

In accordance with your permit major modification request received September 3, 2013, and subsequent additional information received October 23, 2013, October 25, 2013 and October 30, 2013, we are forwarding herewith Permit No. WQ0009772 dated November 1, 2013, to Carolina Water Service, Inc. of NC for the construction and operation of the newly permitted Phase II facilities, as well as the continued operation of the existing wastewater treatment and high-rate infiltration facilities.

The Phase II modifications to the subject permit are as follows:

- The relocation of five existing membrane modules from an existing 14,220 gallon membrane bioreactor tank, with one of these membranes being placed in each of the four other existing 14,220 gallon membrane bioreactor tanks. The fifth membrane module will be placed in onsite storage; the
- Addition of four new ultra-filtration membranes modules into the aforementioned and vacated existing 14,220 gallon membrane bioreactor tank; the
- Addition of a 327,967 gallon synthetically lined five day upset pond; and the
- Increase of treatment capacity and permitted flow from 520,000 gallons per day (GPD) to 580,320 GPD.

This permit shall be effective from the date of issuance until February 29, 2016, shall void Permit No. WQ0009772 issued November 9, 2012, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements listed in Attachments A, B and C for they may differ from the previous permit issuance. Failure to establish an adequate system for collecting and maintaining the required operational information shall result in future compliance problems.

WATER QUALITY PERMITTING SECTION
1636 Mail Service Center, Raleigh, North Carolina 27699-1636
Location: 512 N. Salisbury St., Raleigh, North Carolina 27604
Phone: 919-807-6464 \ FAX: 919-807-6496
Internet: http://portal.ncdenr.org/web/wq

For your convenience, customized electronic copies of your facility's NDMR and NDAR-2 reporting forms are available for download at: http://portal.ncdenr.org/web/wq/aps/lau/reporting.

Please note the following permit conditions are new since the last permit issuance:

- Condition I.1. – This condition requires that the Permittee begin construction of the newly permitted 327,967 gallon synthetically lined five day upset pond no later than upon exceeding 90 percent of the existing wastewater treatment plant's 520,000 gallon per day (GPD) capacity (i.e., 468,000 GPD).

- Condition I.2. – This condition requires that the Permittee submit an Engineering Certification upon completion of construction and prior to operation of the modified permitted facilities.

- Condition I.3. – This condition requires the Permittee to notify the Washington Regional Office at least 48 hours in advance of operation of the installed facilities.

If any parts, requirements or limitations contained in this permit are unacceptable, the Permittee has the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request shall 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 at 6714 Mail Service Center, Raleigh, NC 27699-6714. Unless such demands are made, this permit shall be final and binding.

One set of approved plans and specifications is being forwarded to you. If you need additional information concerning this permit, please contact Nathaniel Thornburg at (919) 807-6453 or nathaniel.thornburg@ncdenr.gov.

Sincerely,

for Thomas A. Reeder

cc: Currituck County Health Department
Washington Regional Office, Water Quality Regional Operations Section
Robert G. Burgin, Jr., PE – Burgin Engineering, Inc.
Beth Buffington, Public Water Supply Section – Protection and Enforcement Branch
Permit File WQ0009772
Notebook File WQ0009772

NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

RALEIGH

HIGH-RATE INFILTRATION SYSTEM PERMIT

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

Carolina Water Service, Inc. of NC

Currituck County

FOR THE

operation of a 580,320 gallon per day (GPD) wastewater treatment and high-rate infiltration facility consisting of the:

continued operation of the existing Phase I facilities consisting of: an influent pump station and wet well with two 1,750 gallon per minute (GPM) centrifugal pumps, one 80 GPM centrifugal jockey pump, two 300 GPM centrifugal equalization pumps, audible/visual high water alarms and two ultrasonic influent flow meters; two rotary drum screens with 2 millimeter (mm) perforations; a vortex grit separator/classifier with dumpster; a 245,000 gallon flow equalization basin with three 168 cubic feet per minute (CFM) blowers and coarse bubble diffusers; a flow splitter box; two 7,023 anaerobic tanks with two 2.3 horsepower (hp) mixers; two 14,000 gallon anoxic tanks with two 180 GPM centrifugal recycle pumps, two 2.3 hp mixers and two magnetic flow meters; two 25,900 gallon aeration basins with two 180 GPM centrifugal recycle pumps, two 140 GPM centrifugal recycle jockey pumps, three 334 CFM positive displacement blowers, one 170 CFM positive displacement jockey blower, fine bubble diffusers, two magnetic flow meters and two magnetic jockey flow meters; two 25,900 gallon secondary anoxic tanks with two 2.3 hp mixers; a membrane reactor splitter box; five 14,220 gallon membrane bioreactor tanks with four tanks containing six membrane modules and one tank containing four ultra-filtration membrane modules, as well as five 360 GPM centrifugal sludge return pumps, one 170 GPM centrifugal sludge return jockey pump, six magnetic recycled activated sludge flow meters, one magnetic waste activated sludge flow meter, six 105 GPM centrifugal permeate pumps; an auxiliary membrane module stored onsite; a recycle activated sludge splitter box; an alum pump/storage feed system; a NaOCl pump/storage feed system; a methanol pump/storage feed system; 117,150 gallons of aerated sludge storage (comprised of a 57,400 gallon basin, a 27,230 gallon basin and a 50,540 gallon basin) served by three 323 CFM positive displacement blowers; an ultraviolet (UV) disinfection system consisting of 2 banks with a total of 40 lamps; an automatic auxiliary generator and transfer switch; six effluent magnetic flow meters; six turbidimeters; a 2.6 million gallon steel five day upset tank; two 120 GPM centrifugal drain pumps; a 1.85 acre high-rate infiltration basin; a groundwater lowering pump station with two 540 GPM pumps; and all associated piping, valves, controls and appurtenances; and the

construction and operation of the proposed Phase II facilities consisting of: the relocation of five existing membrane modules from an existing 14,220 gallon membrane bioreactor tank, with one of these membranes being placed in each of the four other existing 14,220 gallon membrane bioreactor tanks (the fifth membrane module will be placed in onsite storage); four ultra-filtration membranes modules into the aforementioned and vacated existing 14,220 gallon membrane bioreactor tank; a 327,967 gallon synthetically lined five day upset pond; and all associated piping, valves, controls and appurtenances

to serve residential and commercial sources at Monteray Shores Phase I & II, Buck Island, Timbuck II and Corolla Bay, as well as up to 60,320 GPD of untreated wastewater from Corolla Light WWTP #1 (Permit No. WQ0006254) and Corolla Light WWTP #2 (Permit No. NC0015282A1), with no discharge of wastes to surface waters, pursuant to the application received September 3, 2013, and subsequent additional information received by the Division of Water Resources, and in conformity with the project plans, specifications, and other supporting data subsequently filed and approved by the Department of Environment and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until February 29, 2016, shall void Permit No. WQ0009772 issued November 9, 2012, and shall be subject to the following specified conditions and limitations:

I. SCHEDULES

1. Upon exceeding 90 percent of the existing wastewater treatment plant's 520,000 gallon per day (GPD) capacity (i.e., 468,000 GPD) based on a monthly average daily flow as reported on Form: NDMR as required in Conditions IV.3., IV.4. and IV.7., the Permittee shall have commenced constructing the newly permitted 327,967 gallon synthetically lined five day upset pond.

2. In accordance with 15A NCAC 02T .0116, upon completion of construction and prior to operation of the modified permitted facilities, a certification (attached) shall be submitted from a licensed North Carolina Professional Engineer certifying that the permitted facility has been installed in accordance with this permit, Division approved plans and specifications, and other supporting documentation, including the location of all monitoring wells as applicable. If this project is to be completed in phases and partially certified, the Permittee shall retain the responsibility to track further construction approved under the same permit, and shall provide a final certificate of completion once the entire project has been completed. Mail the Certification to the Division of Water Resources, Water Quality Permitting Section, 1636 Mail Service Center, Raleigh, NC 27699-1636.

3. The Washington Regional Office, telephone number (252) 946-6481, shall be notified at least 48 hours in advance (excluding weekends and holidays) of operation of the installed facilities such that an in-place inspection can be made. Notification to the regional supervisor shall be made from 8:00 a.m. until 5:00 p.m. on Monday through Friday, excluding State Holidays.

4. No later than six months prior to the expiration of this permit, the Permittee shall request renewal of this permit on official Division forms. Upon receipt of the request, the Division will review the adequacy of the facilities described therein, and if warranted, will renew the permit for such period of time and under such conditions and limitations as it may deem appropriate. Please note Rule 15A NCAC 02T .0105(d) requires an updated site map to be submitted with the permit renewal application.

5. In accordance with 15A NCAC 02H .0404(e), if the subject wastewater treatment or infiltration facilities are in noncompliance with the terms and conditions of this permit, governing statutes or regulations, the subject facilities shall be connected to an operational publicly owned wastewater collection system within 180 days of its availability. Prior to the initiation of these connection activities, appropriate Division approval shall be received.

II. PERFORMANCE STANDARDS

1. The subject non-discharge facilities shall be effectively maintained and operated at all times so there is no discharge to surface waters, nor any contravention of groundwater or surface water standards. In the event the facilities fail to perform satisfactorily, including the creation of nuisance conditions due to improper operation and maintenance, or failure of the infiltration areas to adequately assimilate the effluent, the Permittee shall take immediate corrective actions including Division required actions, such as the construction of additional or replacement wastewater treatment or infiltration facilities.

2. This permit shall not relieve the Permittee of their responsibility for damages to groundwater or surface water resulting from the operation of this facility.

3. All wells constructed for purposes of groundwater monitoring shall be constructed in accordance with 15A NCAC 02C .0108 (Standards of Construction for Wells Other than Water Supply), and any other jurisdictional laws and regulations pertaining to well construction.

4. Effluent quality shall not exceed the limitations specified in Attachment A.

5. Application rates, whether hydraulic, nutrient or other pollutant, shall not exceed those specified in Attachment B.

6. A usable green area shall be maintained for effluent disposal. The green area shall have the capability of accommodating the facility's average daily flow without exceeding the green area loading rates. As defined in 15A NCAC 02H .0404(g)(7), a "green area" is an area suitable for waste disposal, either in its natural state or which has been modified by planting a vegetative cover of grasses or low growing shrubbery.

7. The compliance boundary for the disposal system shall be specified in accordance with 15A NCAC 02L .0107(b). This disposal system was individually permitted on or after December 30, 1983; therefore, the compliance boundary is established at either 250 feet from the effluent disposal area, or 50 feet within the property boundary, whichever is closest to the effluent disposal area. An exceedance of groundwater standards at or beyond the compliance boundary is subject to remediation action according to 15A NCAC 02L .0106(d)(2) as well as enforcement actions in accordance with North Carolina General Statute 143-215.6A through 143-215.6C.

8. In accordance with 15A NCAC 02L .0108, the review boundary is established midway between the compliance boundary and the effluent disposal area. Any exceedance of groundwater standards at the review boundary shall require action in accordance with 15A NCAC 02L .0106.

9. The Permittee shall apply for a permit modification to establish a new compliance boundary prior to any sale or transfer of property affecting a compliance boundary.

10. In accordance with 15A NCAC 02L .0107(d), no wells, excluding Division approved monitoring wells, shall be constructed within the compliance boundary except as provided for in 15A NCAC 02L .0107(g).

11. In accordance with 15A NCAC 02L .0107(f), except as provided for in 15A NCAC 02L .0107(g), for all permits issued or reissued after January 1, 1993 and the Permittee is not the owner of the land within the compliance boundary, it shall be a condition of this permit that the landowner of the land within the compliance boundary, if other than the Permittee, execute and file in the Register of Deeds in the county in which the land is located, an easement running with the land which:

    a. Contains either a notice of the permit, including the permit number, a description of the type of permit, and the name, address and telephone number of the permitting agency; or a reference to a notice of the permit with book and page number of its recordation if such notice is required to be filed by statute;

    b. Prohibits the construction and operation of water supply wells within the compliance boundary; and

    c. Reserves the right to the Permittee and the State to enter on such property within the compliance boundary for groundwater monitoring and remediation purposes. The easement may be terminated by the Director when its purpose has been fulfilled or the need for the easement no longer exists. Under those conditions the Director shall, upon request by the landowner, file a document terminating the easement with the appropriate Register of Deeds.

12. The facilities permitted herein shall be constructed according to the following setbacks:

    a. The setbacks for high-rate infiltration sites permitted under 15A NCAC 02T .0700 shall be as follows (all distances in feet):

i. Any habitable residence or place of public assembly under separate ownership:	100 [1]
ii. Any habitable residence or place of public assembly owned by the Permittee:	50 [1]
iii. Any private or public water supply source:	100
iv. Non-SA surface waters:	50 [2]
v. SA surface waters:	50 [2]
vi. Groundwater lowering ditches:	50 [2]
vii. Surface water diversions:	50
viii. Any well with exception of monitoring wells:	100
ix. Any property line:	50 [1]
x. Top of slope of embankments or cuts of two feet or more in vertical height:	100
xi. Any water line from a disposal system:	10
xii. Subsurface groundwater lowering drainage systems:	50 [2]
xiii. Any swimming pool:	100
xiv. Public right of way:	50
xv. Nitrification field:	20
xvi. Any building foundation or basement:	15
xvii. Impounded public water supplies:	500
xviii. Public shallow groundwater supply:	500

[1] Setbacks to habitable residences and places of public assembly under separated ownership and owned by the Permittee have been reduced to 100 and 50 feet, respectively, and setbacks to property lines have been reduced to 50 feet due to the Permittee's compliance with the High-Rate Infiltration System Design Policy dated October 27, 2006.

[2] Setbacks to non-SA surface waters, groundwater lowering ditches and subsurface groundwater lowering drainage systems have been reduced to 50 feet because the treatment units are designed to meet a Total Nitrogen of 4 mg/L and a Total Phosphorus of 2 mg/L in accordance with 15A NCAC 02T .0706(c). Setbacks to SA surface waters have been reduced to 100 feet in accordance with 15A NCAC 02T .0706(b).

b. The setbacks for storage and treatment units permitted under 15A NCAC 02T .0700 shall be as follows (all distances in feet):

i. Any habitable residence or place of public assembly under separate ownership:	100
ii. Any private or public water supply source:	100
iii. Surface waters:	50
iv. Any well with exception of monitoring wells:	100
v. Any property line:	50

III. OPERATION AND MAINTENANCE REQUIREMENTS

1. The facilities shall be properly maintained and operated at all times. The facilities shall be effectively maintained and operated as a non-discharge system to prevent the discharge of any wastewater resulting from the operation of this facility. The Permittee shall maintain an Operation and Maintenance Plan pursuant to 15A NCAC 02T .0707, which at a minimum shall include operational functions, maintenance schedules, safety measures and a spill response plan.

2. Upon the Water Pollution Control System Operators Certification Commission's (WPCSOCC) classification of the subject non-discharge facilities, in accordance with 15A NCAC 08G .0200 the Permittee shall designate and employ a certified operator in responsible charge (ORC) and one or more certified operator(s) as back-up ORC(s). The ORC or their back-up shall visit the facilities in accordance with 15A NCAC 08G .0200, and shall comply with all other conditions specified in the previously cited rules.

3. Only effluent from the Monteray Shores WWTP and up to 60,320 GPD from Corolla Light WWTP #1 (Permit No. WQ0006254) and Corolla Light WWTP #2 (Permit No. NC0015282A1) shall be infiltrated on the sites listed in Attachment B.

4. An automatically activated standby power source capable of powering all essential treatment units shall be on site and operational at all times. If a generator is employed as an alternate power supply, it shall be tested weekly by interrupting the primary power source.

5. No automobiles or machinery shall be allowed on the infiltration sites except during equipment installation or while maintenance is being performed.

6. Public access to the infiltration sites and wastewater treatment facilities shall be prohibited.

7. The residuals generated from the wastewater treatment facilities shall be disposed or utilized in accordance with 15A NCAC 02T .1100. The Permittee shall maintain a residual management plan pursuant to 15A NCAC 02T .0708.

8. Diversion or bypassing of untreated or partially treated wastewater from the treatment facilities is prohibited.

9. Freeboard in the high-rate infiltration basins, five day upset tank and five day upset pond shall not be less than two feet at any time.

10. Gauges to monitor waste levels in the high-rate infiltration basins, five day upset tank and five day upset pond shall be provided. These gauges shall have readily visible permanent markings, at inch or tenth of a foot increments, indicating the following elevations: maximum liquid level at the top of the temporary liquid storage volume; minimum liquid level at the bottom of the temporary liquid storage volume; and the lowest point on top of the dam.

11. A protective vegetative cover shall be established and maintained on all earthen embankments (i.e., outside toe of embankment to maximum allowable temporary storage elevation on the inside of the embankment), berms, pipe runs, erosion control areas, and surface water diversions. Trees, shrubs, and other woody vegetation shall not be allowed to grow on the earthen dikes or embankments. Earthen embankment areas shall be kept mowed or otherwise controlled and accessible.

12. All effluent shall be routed to the five day upset tank and/or five day upset pond should the limit for fecal coliform (e.g., daily maximum concentration of 25 colonies per 100 mL) or turbidity (e.g., instantaneous maximum of 10 NTU) be exceeded, until the problems associated with the wastewater treatment plant have been corrected. The wastewater in the five day upset tank and/or five day upset pond shall be pumped back to the treatment plant headworks for re-treatment or treated in the five day upset tank and/or five day upset pond prior to infiltration.

13. The infiltration basins shall be periodically dredged to remove deposited materials that may impede the infiltration process. Dredging records shall be maintained at the facility for a period of no less than five years, and shall be made available to the Division upon request. The Washington Regional Office, telephone number (252) 946-6481, shall be notified prior to dredging.

IV. MONITORING AND REPORTING REQUIREMENTS

1. Any Division required monitoring (including groundwater, plant tissue, soil and surface water analyses) necessary to ensure groundwater and surface water protection shall be established, and an acceptable sampling reporting schedule shall be followed.

2. Per 15A NCAC 02H .0800, a Division certified laboratory shall conduct all laboratory analyses for the required effluent, groundwater or surface water parameters.

3. Flow through the treatment facility shall be continuously monitored, and daily flow values shall be reported on Form NDMR.

   The Permittee shall install and maintain an appropriate flow measurement device to ensure the accuracy and reliability of flow measurement consistent with accepted engineering and scientific practices. Selected flow measurement devices shall be capable of measuring flows with a maximum deviation of less than ten percent from true flow; accurately calibrated at a minimum of once per year; and maintained to ensure the accuracy of measurements is consistent with the selected device's accepted capability. The Permittee shall maintain records of flow measurement device calibration on file for a period of at least five years. At a minimum, documentation shall include:

   a. Date of flow measurement device calibration,
   b. Name of person performing calibration, and
   c. Percent from true flow.

4. The Permittee shall monitor the effluent from the subject facilities at the frequencies and locations for the parameters specified in Attachment A.

5. The Permittee shall maintain adequate records tracking the amount of effluent infiltrated. At a minimum, these records shall include the following information for each infiltration site listed in Attachment B:

   a. Date of infiltration;
   b. Volume of effluent infiltrated;
   c. Site infiltrated;
   d. Loading rates to each infiltration site listed in Attachment B; and
   e. Weather conditions.

6. Freeboard (i.e., waste level to the lowest embankment elevation) in the high-rate infiltration basins, five day upset tank and five day upset pond shall be measured to the nearest inch or tenth of a foot, and recorded weekly. Weekly freeboard records shall be maintained at the facility for a period of no less than five years, and shall be made available to the Division upon request.

7. Three copies of all monitoring data (as specified in Conditions IV.3. and IV.4.) on Form NDMR for each PPI and three copies of all operation and disposal records (as specified in Conditions IV.5. and IV.6.) on Form NDAR-2 for every site in Attachment B shall be submitted on or before the last day of the following month. If no activities occurred during the monitoring month, monitoring reports are still required documenting the absence of the activity. All information shall be submitted to the following address:

Division of Water Resources
Information Processing Unit
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

8. In accordance with § 143-215.1C.(a), the owner or operator of any wastewater collection or treatment works, the operation of which is primarily to collect or treat municipal or domestic wastewater and for which a permit is issued under this Part and having an average annual flow greater than 200,000 gallons per day, shall provide to the users or customers of the collection system or treatment works and to the Department an annual report that summarizes the performance of the collection system or treatment works and the extent to which the collection system or treatment works has violated the permit or federal or State laws, regulations, or rules related to the protection of water quality. The report shall be prepared on either a calendar or fiscal year basis and shall be provided no later than 60 days after the end of the calendar or fiscal year. Two copies of the annual report provided to the Permittee's users shall be submitted to:

Division of Water Resources
Water Quality Permitting Section
1636 Mail Service Center
Raleigh, North Carolina 27699-1636

9. A record shall be maintained of all residuals removed from this facility. This record shall be maintained at the facility for a period of no less than five years, and shall be made available to the Division upon request. At a minimum, this record shall include:

   a. Name of the residuals hauler;
   b. Non-Discharge permit number authorizing the residuals disposal, or a letter from a municipality agreeing to accept the residuals;
   c. Date the residuals were hauled; and
   d. Volume of residuals removed.

10. A maintenance log shall be maintained at this facility. This log shall be maintained at the facility for a period of no less than five years, and shall be made available to the Division upon request. At a minimum, this log shall include:

    a. Date and results of power interruption testing on alternate power supply;
    b. Date of calibration of flow measurement device;
    c. Visual observations of the plant and plant site; and
    d. Record of preventative maintenance (e.g., changing of equipment, adjustments, testing, inspections and cleanings, etc.).

11. Monitoring wells shall be sampled at the frequencies and for the parameters specified in Attachment C. <u>All mapping, well construction forms, well abandonment forms and monitoring data shall refer to the permit number and the well nomenclature as provided in Attachment C and Figure 1.</u>

12. Two copies of the monitoring well sampling and analysis results shall be submitted on a Compliance Monitoring Form (GW-59), along with attached copies of laboratory analyses, on or before the last working day of the month following the sampling month. The Compliance Monitoring Form (GW-59) shall include this permit number, the appropriate well identification number, and one GW-59a certification form shall be submitted with each set of sampling results. All information shall be submitted to the following address:

Division of Water Resources
Information Processing Unit
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

13. **Noncompliance Notification:**

The Permittee shall report by telephone to the Washington Regional Office, telephone number (252) 946-6481, as soon as possible, but in no case more than 24 hours, or on the next working day following the occurrence or first knowledge of the occurrence of any of the following:

a. Any occurrence at the facility resulting in the treatment of significant amounts of wastes that is abnormal in quantity or characteristic, including the known passage of a hazardous substance.

b. Any process unit failure (e.g., mechanical, electrical, etc.), due to known or unknown reasons, rendering the facility incapable of adequate wastewater treatment.

c. Any facility failure resulting in a by-pass directly to receiving surface waters.

d. Any time self-monitoring indicates the facility has gone out of compliance with its permit limitations.

e. Effluent breakout from the infiltration basin(s).

Any emergency requiring immediate reporting (e.g., discharges to surface waters, imminent failure of a storage structure, etc.) outside normal business hours shall be reported to the Division's Emergency Response personnel at telephone number (800) 662-7956, (800) 858-0368, or (919) 733-3300. Persons reporting such occurrences by telephone shall also file a written report in letter form within five days following first knowledge of the occurrence. This report shall outline the actions taken or proposed to be taken to ensure the problem does not recur.

V. INSPECTIONS

1. The Permittee shall provide adequate inspection and maintenance to ensure proper operation of the wastewater treatment and infiltration facilities.

2. The Permittee or their designee shall inspect the wastewater treatment and infiltration facilities to prevent malfunctions, facility deterioration and operator errors resulting in discharges, which may cause the release of wastes to the environment, a threat to human health or a public nuisance. The Permittee shall maintain an inspection log that includes, at a minimum, the date and time of inspection, observations made, and any maintenance, repairs, or corrective actions taken. The Permittee shall maintain this inspection log for a period of five years from the date of the inspection, and this log shall be made available to the Division upon request.

3. Any duly authorized Division representative may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the wastewater treatment and infiltration facilities permitted herein at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records required to be maintained under the terms and conditions of this permit, and may collect groundwater, surface water or leachate samples.

VI. GENERAL CONDITIONS

1. Failure to comply with the conditions and limitations contained herein 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.

2. This permit shall become voidable if the permitted facilities are not constructed in accordance with the conditions of this permit, the Division approved plans and specifications, and other supporting documentation.

3. This permit is effective only with respect to the nature and volume of wastes described in the permit application, Division approved plans and specifications, and other supporting documentation. No variances to applicable rules governing the construction or operation of the permitted facilities are granted, unless specifically requested and approved in this permit pursuant to 15A NCAC 02T .0105(n).

4. The issuance of this permit does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances, which may be imposed by other jurisdictional government agencies (e.g., local, state, and federal). Of particular concern to the Division are applicable river buffer rules in 15A NCAC 02B .0200; erosion and sedimentation control requirements in 15A NCAC Chapter 4 and under the Division's General Permit NCG010000; any requirements pertaining to wetlands under 15A NCAC 02B .0200 and 02H .0500; and documentation of compliance with Article 21 Part 6 of Chapter 143 of the General Statutes.

5. In the event the permitted facilities change ownership or the Permittee changes their name, a formal permit modification request shall be submitted to the Division. This request shall be made on official Division forms, and shall include appropriate property ownership documentation and other supporting documentation as necessary. The Permittee of record shall remain fully responsible for maintaining and operating the facilities permitted herein until a permit is issued to the new owner.

6. The Permittee shall retain a set of Division approved plans and specifications for the life of the facilities permitted herein.

7. The Permittee shall maintain this permit until all permitted facilities herein are properly closed or permitted under another permit issued by the appropriate permitting authority pursuant to 15A NCAC 02T .0105(j).

8. In accordance with 15A NCAC 02T .0110, any permit issued by the Division pursuant to Administrative Code 15A Subchapter 02T is subject to revocation, or modification upon 60 days notice by the Director of Water Resources in whole or part for:
   a. Violation of any terms or conditions of the permit;
   b. Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts;
   c. Refusal of the Permittee to allow authorized employees of the Department of Environment and Natural Resources upon presentation of credentials:
      i. to enter upon Permittee's premises on which a system is located in which any records are required to be kept under terms and conditions of the permit;
      ii. to have access to any documents and records required to be kept under terms and condition of the permit;
      iii. to inspect any monitoring equipment or method required in the permit; or
      iv. to sample any pollutants.
   d. Failure to pay the annual fee for administering and compliance monitoring.

9. In accordance with 15A NCAC 02T .0120(b), permits for new and expanding facilities shall not be granted, unless the Division of Water Resources determines that the permit is specifically and solely needed for the construction of facilities to resolve non-compliance with any environmental statute or rule when any of the following apply:

   a. The applicant or any parent, subsidiary, or other affiliate of the applicant or parent has been convicted of environmental crimes under G.S. 143-215.6B or under Federal law that would otherwise be prosecuted under G.S. 143-215.6B where all appeals have been abandoned or exhausted.

   b. The applicant or any affiliation has previously abandoned a wastewater treatment facility without properly closing the facility in accordance with the permit or Administration Code 15A Subchapter 02T.

   c. The applicant or any affiliation has not paid a civil penalty where all appeals have been abandoned or exhausted.

   d. The applicant of any affiliation is currently not compliant with any compliance schedule in a permit, settlement agreement or order.

   e. The applicant or any affiliation has not paid an annual fee in accordance with 15A NCAC 02T .0105(e)(2).

10. The Permittee shall pay the annual fee within 30 days after being billed by the Division. Failure to pay the annual fee accordingly shall be cause for the Division to revoke this permit pursuant to 15A NCAC 02T .0105(e)(3).

Permit issued this the 1st day of November 2013

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

for Thomas A. Reeder, Director
Division of Water Resources
By Authority of the Environmental Management Commission

Permit Number WQ0009772

ENGINEERING CERTIFICATION

☐ Partial ☐ Final

In accordance with 15A NCAC 02T .0116, I,_____, as a duly registered Professional Engineer in the State of North Carolina, having the Permittee's authorization to ☐ periodically ☐ weekly ☐ fully observe the construction of the permitted facility, hereby state to the best of my abilities that due care and diligence was used in the observation of the construction, such that the facility was built within substantial compliance and intent of this permit, the Division approved plans and specifications, and other supporting documentation.

☐ Any variation to this permit, the Division approved plans and specifications, and other supporting documentation has been documented in the attached as-built drawings, and shall serve as the Permittee's minor modification request to amend the permit accordingly.

Provide a brief narrative description of any variations: _____

_____

_____

_____

Professional Engineer's Name			
Engineering Firm			
Mailing Address			
City	State	Zip	
Telephone	E-mail		NC PE Seal, Signature & Date

THE COMPLETED ENGINEERING CERTIFICATION, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHALL BE SENT TO THE FOLLOWING ADDRESS:

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES
WATER QUALITY PERMITTING SECTION
NON-DISCHARGE PERMITTING UNIT

By U.S. Postal Service:
1636 MAIL SERVICE CENTER
RALEIGH, NORTH CAROLINA 27699-1636

By Courier/Special Delivery:
512 N. SALISBURY ST.
RALEIGH, NORTH CAROLINA 27604

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PPI 001 – WWTP Effluent

EFFLUENT CHARACTERISTICS		EFFLUENT LIMITS					MONITORING REQUIREMENTS	
PCS Code	Parameter Description	Units of Measure	Monthly Average	Monthly Geometric Mean	Daily Minimum	Daily Maximum	Measurement Frequency	Sample Type
00310	BOD, 5-Day (20 °C)	mg/L	10			15	3 x Week	Composite
00940	Chloride (as Cl)	mg/L	No Limit				3 x Year [1]	Composite
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL		14		25	Weekly	Grab
50050	Flow, in Conduit or thru Treatment Plant	GPD	520,000 [2] 580,320 [3]				Continuous	Recorder
00610	Nitrogen, Ammonia Total (as N)	mg/L	4			6	3 x Week	Composite
00620	Nitrogen, Nitrate Total (as N)	mg/L	10				3 x Week	Composite
00600	Nitrogen, Total (as N)	mg/L	4				3 x Week	Composite
00400	pH	su			6	9	5 x Week	Grab
00665	Phosphorus, Total (as P)	mg/L	2				3 x Week	Composite
70300	Solids, Total Dissolved – 180 °C	mg/L	No Limit				3 x Year [1]	Composite
00530	Solids, Total Suspended	mg/L	5			10	3 x Week	Composite
00076	Turbidity, HCH Turbidimeter	NTU				10	Continuous	Recorder

1. 3 x Year sampling shall be conducted every March, July and November.
2. Prior to construction and operation of the newly permitted Phase II facilities, the flow shall be limited to 520,000 GPD.
3. Upon construction, certification and operation of the newly permitted Phase II facilities, the flow shall be limited to 580,320 GPD.

PPI 002 – Groundwater Lowering System Effluent

EFFLUENT CHARACTERISTICS				EFFLUENT LIMITS			MONITORING REQUIREMENTS	
PCS Code	Parameter Description	Units of Measure	Monthly Average	Monthly Geometric Mean	Daily Minimum	Daily Maximum	Measurement Frequency	Sample Type
00310	BOD, 5-Day (20 °C)	mg/L	No Limit				Weekly	Grab
00680	Carbon, Total Organic (TOC)	mg/L	No Limit				3 x Year [1]	Grab
00940	Chloride (as Cl)	mg/L	250				3 x Year [1]	Grab
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL					Weekly	Grab
50050	Flow, in Conduit or thru Treatment Plant	GPD	No Limit				Continuous	Recorder
00610	Nitrogen, Ammonia Total (as N)	mg/L	1.5				Weekly	Grab
00620	Nitrogen, Nitrate Total (as N)	mg/L	10				Weekly	Grab
00600	Nitrogen, Total (as N)	mg/L	No Limit				Weekly	Grab
00400	pH	su			6.5	8.5	Weekly	Grab
00665	Phosphorus, Total (as P)	mg/L	No Limit				Weekly	Grab
70300	Solids, Total Dissolved – 180 °C	mg/L	500				3 x Year [1]	Grab
NDVOC	Volatile Compounds (Effluent)	Present: Y/N	No Limit				Annually [2]	Grab

1. 3 x Year sampling shall be conducted every March, July and November.
2. Annual sampling shall be conducted every November.

Carolina Water Service, Inc. of NC – Monteray Shores WWTP

INFILTRATION AREA INFORMATION							APPLICATION LIMITATIONS		
Basin	**Owner**	**County**	**Latitude**	**Longitude**	**Net Acreage**	**Dominant Soil Series**	**Parameter**	**Rate**	**Units**
1A	Carolina Water Service, Inc. of NC	Currituck	36.331504°	-75.818705°	1.23	Newhan	01284 – Non-Discharge Application Rate	5.98 320,104	GPD/ft^2 GPD
1B	Carolina Water Service, Inc. of NC	Currituck	36.330982°	-75.818210°	1.00	Newhan	01284 – Non-Discharge Application Rate	5.98 260,216	GPD/ft^2 GPD
Totals					**2.23**				

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Monitoring wells: MW-12 and MW-13

GROUNDWATER CHARACTERISTICS		GROUNDWATER STANDARDS		MONITORING REQUIREMENTS		
PCS Code	Parameter Description	Daily Maximum		Frequency Measurement	Sample Type	Footnotes
00680	Carbon, Tot Organic (TOC)		mg/L	3 x Year	Grab	1, 6
00940	Chloride (as Cl)	250	mg/L	3 x Year	Grab	1
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C		#/100 mL	3 x Year	Grab	1
00610	Nitrogen, Ammonia Total (as N)	1.5	mg/L	3 x Year	Grab	1
00620	Nitrogen, Nitrate Total (as N)	10	mg/L	3 x Year	Grab	1
00400	pH	6.5-8.5	su	3 x Year	Grab	1, 2
00665	Phosphorus, Total (as P)		mg/L	3 x Year	Grab	1
70300	Solids, Total Dissolved - 180 °C	500	mg/L	3 x Year	Grab	1
GWVOC	Volatile Compounds (GC/MS)		Present: Yes/No	Annually	Grab	1, 4, 5
82546	Water level, distance from measuring point		ft	3 x Year	Calculated	1, 2, 3

1. 3 x Year monitoring shall be conducted in March, July & November; Annual monitoring shall be conducted every November.
2. The measurement of water levels shall be made prior to purging the wells. The depth to water in each well shall be measured from the surveyed point on the top of the casing. The measurement of pH shall be made after purging and prior to sampling for the remaining parameters.
3. The measuring points (top of well casing) of all monitoring wells shall be surveyed to provide the relative elevation of the measuring point for each monitoring well. The measuring points (top of casing) of all monitoring wells shall be surveyed relative to a common datum.
4. Volatile Organic Compounds (VOC) - In November only, analyze by one of the following methods:
   a. Standard Method 6230D, PQL at 0.5 µg/L or less
   b. Standard Method 6210D, PQL at 0.5 µg/L or less
   c. EPA Method 8021, Low Concentration, PQL at 0.5 µg/L or less
   d. EPA Method 8260, Low Concentration, PQL at 0.5 µg/L or less
   e. Another method with prior approval by the Water Quality Permitting Section Chief

   Any method used must meet the following qualifications:
   a. A laboratory must be DWR certified to run any method used.
   b. The method used must, at a minimum, include all the constituents listed in Table VIII of Standard Method 6230D.
   c. The method used must provide a PQL of 0.5 µg/L or less that must be supported by laboratory proficiency studies as required by DWR. Any constituents detected above the MDL but below the PQL of 0.5 µg/L must be qualified (estimated) and reported.
5. If any volatile organic compounds (VOC) are detected as a result of monitoring as provided in Attachment C, then the Washington Regional Office supervisor, telephone number (252) 946-6481, must be contacted immediately for further instructions regarding any additional follow-up analyses required.
6. If TOC concentrations greater than 10 mg/L are detected in any downgradient monitoring well, additional sampling and analysis must be conducted to identify the individual constituents comprising this TOC concentration. If the TOC concentration as measured in the background monitor well exceeds 10 mg/L, this concentration will be taken to represent the naturally occurring TOC concentration. Any exceedances of this naturally occurring TOC concentration in the downgradient wells shall be subject to the additional sampling and analysis as described above.
7. Monitoring wells shall be reported consistent with the nomenclature and location information provided in Figure 1 and this attachment.

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES

STATE STORMWATER MANAGEMENT PERMIT

HIGH 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

Corolla Bay Homeowners Association, Inc.

Corolla Bay Residential

Located on NC Hwy 12, Corolla, NC

Currituck County

FOR THE

construction, operation and maintenance of a wet detention pond 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 for Corolla Bay Residential Subdivision, located at Corolla, NC.

This permit replaces all previous stormwater permits for this project, and shall be effective from October 30, 2022, until October 29, 2030, and shall be subject to the following specified conditions and limitations:

I. DESIGN STANDARDS

1. This permit is effective only with respect to the nature and volume of stormwater described in the application and other supporting data.

2. This stormwater system has been approved for the management of stormwater runoff as described in Section I.6 of this permit. The subdivision is permitted for 49 lots, each allowed (See Attached Table) square feet of built-upon area, with total built-upon area coverage of 58.6%.

3. Approved plans and specifications for this project are incorporated by reference and are enforceable parts of the permit.

4. All stormwater collection and treatment systems must be located in either dedicated common areas or recorded easements. The final plats for the project will be recorded showing all such required easements, in accordance with the approved plans.

5. The following design elements have been permitted for this wet detention pond stormwater facility and must be provided in the system at all times.

a.	Drainage Area, acres:	12.3 (535,788 sf)
b.	Total Impervious Surfaces, ft^2:	313,747
c.	Pond Depth, feet:	3.50
d.	TSS removal efficiency:	90%
e.	Design Storm:	1.0"
f.	Permanent Pool Elevation, FMSL:	5.50
g.	Permitted Surface Area @PP, ft^2:	62,856
h.	Permitted Storage Volume, ft^3:	164,997
i.	Storage Elevation, FMSL:	6.04
j.	Controlling Orifice:	5" Ø pipe
k.	Receiving Stream / River Basin:	Currituck Sound / Pasquotank River Basin
l.	Stream Index Number:	30-1
m.	Classification of Water Body:	"SC"

II. SCHEDULE OF COMPLIANCE

1. No homeowner/lot owner/developer shall fill in, alter, or pipe any drainage feature (such as swales) shown on the approved plans as part of the stormwater management system without submitting a revision to the permit and receiving approval from the Division.

2. The permittee is responsible for verifying that the proposed built-upon area for the entire lot, including driveways and sidewalks, does not exceed the allowable built-upon area. Once the lot transfer is complete, the built-upon area may not be revised without approval from the Division, and responsibility for meeting the built-upon area limit is transferred to the individual property owner.

3. If an Architectural Review Board or Committee is required to review plans for compliance with the BUA limit, the plans reviewed must include all proposed built-upon area. Any approvals given by the Board do not relieve the homeowner of the responsibility to maintain compliance with the permitted BUA limit.

4. 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 all or part of the project area. The project area is defined as all property owned by the permittee, for which Sedimentation and Erosion Control Plan approval or a CAMA Major permit was sought.
   f. Filling in, altering, or piping of any vegetative conveyance shown on the approved plan.

5. The Director may determine that other revisions to the project should require a modification to the permit.

6. 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.

7. The stormwater management system shall be constructed in its entirety, vegetated and operational for its intended use prior to the construction of any built-upon surface.

8. During construction, erosion shall be kept to a minimum and any eroded areas of the system will be repaired immediately.

9. Upon completion of construction, prior to issuance of a Certificate of Occupancy, and prior to operation of this permitted facility, a certification must be received from an appropriate designer for the system installed certifying that the permitted facility has been installed in accordance with this permit, the approved plans and specifications, and other supporting documentation. Any deviations from the approved plans and specifications must be noted on the Certification.

10. If the stormwater system was used as an Erosion Control device, it must be restored to design condition prior to operation as a stormwater treatment device, and prior to occupancy of the facility.

11. Permanent seeding requirements for the stormwater control must follow the guidelines established in the North Carolina Erosion and Sediment Control Planning and Design Manual.

12. Prior to the sale of any lot, the following deed restrictions must be recorded:

    a. The following covenants are intended to ensure ongoing compliance with State Stormwater Management Permit Number SW7050220, 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. The maximum built-upon area per lot is (See Attached Table) square feet. This allotted amount includes any built-upon area constructed within the lot property boundaries, and that portion of the right-of-way between the front lot line and the edge of the pavement. Built upon area includes, but is not limited to, structures, asphalt, concrete, gravel, brick, stone, slate, coquina and parking areas, but does not include raised, open wood decking, or the water surface of swimming pools.
    g. Lots within CAMA's Area of Environmental Concern may be subject to a reduction in their allowable built-upon area due to CAMA regulations.
    h. All runoff on the lot must drain into the permitted system. This may be accomplished through providing roof drain gutters which drain to the street, grading the lot to drain toward the street, or grading perimeter swales and directing them into the pond or street. Lots that will naturally drain into the system are not required to provide these measures.
    i. Built-upon area in excess of the permitted amount will require a permit modification.

13. A copy of the recorded deed restrictions must be submitted to the Division within 30 days of the date of recording the plat, and prior to selling lots. The recorded copy must contain all of the statements above, the signature of the Permittee, the deed book number and page, and the stamp/signature of the Register of Deeds.

14. Prior to transfer of the permit, the stormwater facilities will be inspected by DEMLR personnel. The facility must be in compliance with all permit conditions. Any items not in compliance must be repaired or replaced to design condition prior to the transfer. Records of maintenance activities performed to date will be required.

15. The permittee shall at all times provide the operation and maintenance necessary to assure that all components of the permitted stormwater system function at optimum efficiency. The approved Operation and Maintenance Plan

must be followed in its entirety and maintenance must occur at the scheduled intervals including, but not limited to:

a. Semiannual scheduled inspections (every 6 months).
b. Sediment removal.
c. Mowing and revegetation of side slopes.
d. Immediate repair of eroded areas.
e. Maintenance of side slopes in accordance with approved plans and specifications.
f. Debris removal and unclogging of structures, orifice, catch basins and piping.
g. Access to all components of the system must be available at all times.

16. Records of maintenance activities must be kept and made available upon request to authorized personnel of DEMLR. The records will indicate the date, activity, name of person performing the work and what actions were taken.

17. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.

18. Built upon area includes, but is not limited to, structures, asphalt, concrete, gravel, brick, stone, slate, coquina and parking areas, but does not include raised, open wood decking, or the water surface of swimming pools.

III. GENERAL CONDITIONS

1. This permit is not transferable to any person or entity except after notice to and approval by the Director. In the event there is either a desire for the facilities to change ownership, or there is a name change of the Permittee, a "Name/Ownership Change Form" must be submitted to the Division accompanied by appropriate documentation from the parties involved. This may include, but is not limited to, a deed of trust, recorded deed restrictions, Designer's Certification and a signed Operation and Maintenance plan. The project must be in good standing with DEMLR. 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 of the terms and conditions of this permit until such time as the Director approves the transfer request.

3. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to enforcement action by the Division, in accordance with North Carolina General Statute 143-215.6A to 143-215.6C.

4. 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.

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 this Division, such as the construction of additional or replacement stormwater management systems.

6. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and reissuance or termination does not stay any permit condition.

7. Permittee grants permission to staff of the DEMLR to access the property for the purposes of inspecting the stormwater facilities during normal business hours.

8. The permittee shall notify the Division of any name, ownership or mailing address changes within 30 days.

9. A copy of the approved plans and specifications shall be maintained on file by the Permittee for the life of the project.

10. ANNUAL CERTIFICATION. The permittee shall electronically submit to the Division an annual certification completed by either the permittee or their designee confirming the projects conformance with permit conditions.

11. This permit shall be **effective from October 30, 2022, until October 29, 2030**. Application for permit renewal shall be submitted 180 days prior to the expiration date of this permit and must be accompanied by the processing fee.

Permit issued this the 14 th day of September 2022.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

_____For
Brian Wrenn, Director
Division of Energy, Mineral and Land Resources
By Authority of the Environmental Management Commission

Permit Number SW7050220

SW 7050220

COROLLA BAY STORM WATER MODIFICATION FOR 2017									
Phase	Lot #	Area (sf)	Acres	% covg	Impvs. Covg.				
I	1	12,179	2.80	35%	4,263				
II	2	8,000	0.18	45%	3,600				
II	3	8,000	0.18	45%	3,600				
II	4	7,965	0.18	45%	3,584				
II	5	8,000	0.18	45%	3,600				
II	6	8,000	0.18	45%	3,600				
II	7	7,735	0.18	45%	3,481				
I	8	7,500	0.17	45%	3,375				
I	9	7,927	0.18	45%	3,567				
I	10	8,772	0.20	45%	3,947				
I	11	19,729	0.45	35%	6,905				
I	12	15,050	0.35	35%	5,268				
I	13	14,952	0.34	35%	5,233				
I	14	18,424	0.42	35%	6,448				
I	15	17,077	0.39	35%	5,977				
I	16	21,877	0.50	35%	7,657				
I	17	19,307	0.44	35%	6,757				
I	18	14,991	0.34	35%	5,247				
I	19	16,084	0.37	35%	5,629				
I	20	16,070	0.37	35%	5,625				
I	21	16,032	0.37	35%	5,611				
I	22	15,208	0.35	35%	5,323				
I	23	16,268	0.37	35%	5,694				
I	24	15,368	0.35	35%	5,379				
I	25	16,846	0.39	35%	5,896				
I	26	17,111	0.39	35%	5,989				
I	27	17,074	0.39	35%	5,976				
I	28	16,956	0.39	35%	5,935				
I	29	16,838	0.39	35%	5,893				
I	30	16,722	0.38	35%	5,853				
I	31	16,604	0.38	35%	5,811				
I	32	16,486	0.38	35%	5,770				
I	33	16,331	0.37	35%	5,716				
I	34	15,600	0.36	35%	5,460				
I	35	16,510	0.38	35%	5,779				
I	36	14,243	0.33	35%	4,985				
II	37	12,501	0.29	35%	4,375				
II	61	23,468	0.54	35%	8,214				
II	62	9,828	0.23	35%	3,440				
II	63	10,710	0.25	35%	3,749				
II	64	10,080	0.23	35%	3,528				
II	65	9,381	0.22	45%	4,221				
II	66	9,289	0.21	45%	4,180				
II	67	9,328	0.21	45%	4,198				
II	68	9,367	0.22	45%	4,215				
II	69	9,374	0.22	45%	4,218				
II	70	9,522	0.22	45%	4,285				
II	71	9,518	0.22	45%	4,283				
II	72	9,598	0.22	45%	4,319				