

TRANSMITTAL

TO:	DATE:
	REFERENCE:
PHONE:	PROJECT NO:
FROM: PHONE:	
cc:	
Transmitted By: Mail/UPS Ov	rernight Courier Hand Deliver Client Pickup
Attached are the follow	
COPIES DATE	DESCRIPTION
<u> </u>	
These items are transmit	red as checked below:
For approval	As requested Information returned after loan
For your use	Review & comment
Additional Comments:	



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EROSION and SEDIMENTATION CONTROL PLAN PRELIMINARY REVIEW CHECKLIST

The following items shall be incorporated with respect to specific site conditions, in an erosion & sedimentation control plan:

NPDES Construction Stormwater Gener	ral Permit NCG010000		
	e the 7 or 14 day ground stabilization re or more of drainage area for surface w		
LOCATION INFORMATION			Name and classification of receiving water course or name of
Project location & labeled vicir North arrow and scale	nity map (roads, streets, landmarks)		municipal operator (only where stormwater discharges are to occur)
Identify River Basin.	on applicable LISCS guadrangle and	STORM	WATER CALCULATIONS
	on applicable USGS quadrangle and a River Basin with Riparian Buffer		Pre-construction runoff calculations for each outlet from the site (at peak discharge points). Be sure to provide all supporting data for
GENERAL SITE FEATURES (Plan elem	nents)		the computation methods used (rainfall data for required storm events, time of concentration/storm duration, and runoff
Property lines & ownership ID			coefficients). Design calculations for peak discharges of runoff (including the
Existing contours (topographic Proposed contours	c lines)		construction phase & the final runoff coefficients for the site) Design calcs for culverts and storm sewers (include HW, TW and
Limits of disturbed area (pro	ovide acreage total, delineate limits,		outlet velocities)
be disturbed, and utilities that	all access to measures, lots that will may extend offsite.		Discharge and velocity calculations for open channel and ditch flows (easement & rights-of-way)
Planned and existing building	locations and elevations locations & elevations, including		Design calcs for cross sections and method of stabilization for existing and planned channels (include temporary linings). Include
temporary access roads	locations & elevations, including		appropriate permissible velocity and/or shear stress data.
Lot and/or building numbers	k outcrops, seeps, springs, wetland		Design calcs and construction details for energy dissipaters below culvert and storm sewer outlets (include stone/material specs &
	kes, ponds, dams, etc. (include all		apron dimensions). Avoid discharges on fill slopes.
required local or state buffer a determinations)	zones and any DWQ Riparian Buffer		Design calcs and dimension of sediment basins (note current surface area and dewatering standards as well as diversion of
Easements and drainageway	ys, particularly required for offsite		runoff to the basins). Be sure that all surface drains, including
affected areas. Include copies agreements with adjoining pro	s of any recorded easements and/or		ditches and berms, will have positive drainage to the basins.
Profiles of streets, utilities, ditc	ch lines, etc.	VEGETA	ATIVE STABILIZATION
Stockpiled topsoil or subsoil lo	ocations s the land-disturbing activity & any		Area & acreage to be stabilized with vegetation
related borrow or waste act	tivity, the related borrow or waste		Method of soil preparation
	of the land-disturbing activity unless is regulated under the Mining Act of		Seed type & rates (temporary & permanent) Fertilizer type and rates
1971, or is a landfill regu	ulated by the Division of Waste		Mulch type and rates (include mulch anchoring methods)
	disturbing activity and any related not conducted by the same person,	NOTE:	Plan should include provisions for groundcover in accordance with
they shall be considered sep	parate land-disturbing activities and		NPDES Construction Stormwater General Permit NCG010000.
	nrough the Sedimentation Pollution ow site or through the Mining Act.	FINANC	IAL RESPONSIBILITY/OWNERSHIP FORM
Location and details associate	ed with any onsite stone crushing or		
	I excavated. If the affected area processing, stockpiles and transport		Completed, signed & notarized FR/O Form Accurate application fee payable to NCDEQ (\$100.00 per
of such materials will comprise	e 1 or more acres, and materials will		acre rounded up the next acre with no ceiling amount)
	act, a mining permit will be required. Permit and Water Quality 401		Certificate of assumed name, if the owner is a partnership Name of Registered Agent (if applicable)
certification (e.g. stream distur			Copy of the most current Deed for the site. Please make sure the
EROSION & SEDIMENT CONTROL ME	EASURES (on plan)		deed(s) and ownership information are consistent between the plan sheets, local records and this form.
Logand (provide appropriate	o symbols for all massures and		Provide latitude & longitude (in decimal degrees) at the project
reference them to the construc	e symbols for all measures and ction details)		entrance. Two hard-copies of the plans (some regional offices require
Location of temporary measur			additional plans or multiple sizes; please contact the regional
Location of permanent measu Construction drawings and de	tails for temporary and permanent		coordinator prior to such submittal.)
	to scale on plan and include necessary. Ensure design storage	NOTE:	For the Express Permitting Option, inquire at the local Regional Office for availability. Express Reviews are performed by
	through all phases of construction.		appointment only.
Maintenance requirements for Contact person responsible fo		NARRA [*]	TIVE AND CONSTRUCTION SEQUENCE
SITE DRAINAGE FEATURES			Narrative describing the nature & purpose of the construction activity.
Existing and planned drainage	e patterns (include off-site areas that		Pre-construction conference, if requested. Construction sequence related to erosion and sediment control
drain through project and a	address temporary and permanent		(including installation of critical measures prior to the initiation of
conveyance of stormwater over Method used to determine a	er graded slopes) creage of land being disturbed and		the land-disturbing activity & removal of measures after areas they serve are permanently stabilized). Address all phases of
drainage areas to all proposed	d measures (e.g. delineation map)		construction and necessary practices associated with temporary
Size, pipe material and location Soil information: type, special			stream bypasses and/or crossings. Bid specifications related only to erosion control
Soil information below culvert			rev. 1-18-22

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.)

Part A.

1.	Project Name						
					ARPA) funds, list to the solution of Water Infrast.		
2.	Location of land-	disturbing activity	/: County		City or Townsh	nip	
	Highway/Street_		Latitu	ide(decimal degrees)	Longitud	de(decimal degrees)	
3.	Approximate dat	e land-disturbing	activity will c	ommence:			
4.	Purpose of deve	lopment (residen	tial, commerc	cial, industrial, i	institutional, etc.):_		
5.	Total acreage di	sturbed or uncove	ered (includir	ng off-site borro	ow and waste areas	s):	
6.	up to the next a	enclosed: \$ cre) is assessed to the addressed to the	without a ceil	The ap ling amount(E	oplication fee of \$1 Example: 8.10-acre	00.00 per acre application fe	e (rounded e is \$900).
7.	Has an erosion a	and sediment con	trol plan bee	n filed? Yes □	☐ Enclosed ☐	No □	
8.	Person to contac	at should erosion	and sedimen	t control issues	s arise during land-	disturbing acti	vity:
	Name			E-mail Addr	ess		
	Phone: Office #			_ Mobile #			
9.	Landowner(s) of	Record (attach a	ccompanied	page to list ad	ditional owners):		
	Name		 	Phone: Offi	ce #	Mobile #	
	Current Mailing /			Current Stre	eet Address		
	City	State	Zip	City	State		Zip
10	Deed Book No		Page No		Provide a copy o	f the most curr	rent deed

Part B.

Company Name			E-mail Address		
Current Mailing Ad	ddress	· · · · · · · · · · · · · · · · · · ·	Current Street A	Address	
City	State	Zip	City	State	Zip
Phone: Office#_			Mobile #		
business registry, g		reet addres	E-mail Address	r Agent:	
Current Mailing Add	ress		Current Street A	Address	· · · · · · · · · · · · · · · · · · ·
City	State	Zip	City	State	Zip
City Phone: Office#		·	·	State	•
·		· 	Mobile #		•
Phone: Office # Name of Individual t	o Contact (if Reg / Responsible Pa	istered Age	Mobile #ent is a company) resident of North (treet address
Phone: Office # Name of Individual t (b) If the Financially of the designated N	o Contact (if Reg / Responsible Pa lorth Carolina ago	istered Age	Mobile #ent is a company) resident of North (Carolina, give name and s	treet address
Phone: Office # Name of Individual t	o Contact (if Reg / Responsible Pa lorth Carolina ago	istered Age	Mobile #ent is a company) resident of North (egistered on the N	Carolina, give name and s C Secretary of State busin	treet address

Name of Individual to Contact (if Registered Agent is a company)

which the company is Doing Business As.	gaging in business under an assumed name, give name under If the Financially Responsible Party is an individual, General d and doing business under an assumed name, attach a copy
Company DBA Name	
by me under oath. (This form must be signed or his attorney-in-fact, or if not an individual,	the best of my knowledge and belief and was provided by the Financially Responsible Person if an individual(s), by an officer, director, partner, or registered agent with the Financially Responsible Party). I agree to provide thange in the information provided herein.
Type or print name	Title or Authority
Signature	
l,	_, a Notary Public of the County of
State of North Carolina, hereby certify that before me this day and being duly sworn ack	appeared personally nowledged that the above form was executed by him/her.
Witness my hand and notarial seal, this	day of, 20
Seal	Notary My commission expires

Continued from Items 9 & 10 in Part A of the Financial Responsibility/Ownership Form for multiple owners. Attach copies of this page as needed to list all landowners.

Landowner 2 of Recor	d:					
Name			Phone: Off	ice #	Mobile #	
Current Mailing	Address		Current Str	eet Address		
City	State	Zip	City	State		Zip
Deed Book No		Page No		_ Provide a copy of	the most curre	ent deed
Landowner 3 of Recor	d:					
Name			Phone: Off	ice #	Mobile #	
Current Mailing	Address		Current Str	eet Address		
City	State	Zip	City	State		Zip
Deed Book No		Page No		_ Provide a copy of	the most curre	ent deed
Landowner 4 of Recor	d:					
Name			Phone: Off	ice #	Mobile #	
Current Mailing	Address		Current Str	eet Address		
City	State	Zip	City	State		Zip
Deed Book No		Page No		_ Provide a copy of	the most curre	ent deed
Landowner 5 of Recor	d:					
Name			Phone: Off	ice #	Mobile #	
Current Mailing	Address		Current Str	eet Address		
City	State	Zip	City	State		Zip
Deed Book No		Page No		Provide a copy of	the most curr	ent deed

Continued from Item 1 in Part B of the Financial Responsibility/Ownership Form for multiple parties. Attach copies of this page as needed to list all financially responsible parties.

Company 2 Nar	me		E-mail Address		
Current Mailing	Address		Current Street A	Address	
City	State	Zip	City	State	Zip
Phone: Office #	ŧ		Mobile #		
Company 3 Nar	me		E-mail Address		
Current Mailing	Address		Current Street A	Address	
City	State	Zip	City	State	Zip
Phone: Office #	£		Mobile #		
Company 4 Nar	me		E-mail Address		
Current Mailing	Address	····	Current Street A	Address	
City	State	Zip	City	State	Zip
Phone: Office #	<u> </u>		Mobile #		
Company 5 Nar	me		E-mail Address		
Current Mailing	Address		Current Street A	Address	
City	State	Zip	City	State	Zip
Phone: Office #	ŧ		Mobile #		



Major Stormwater Plan Form SW-002

Review Process

Contact Information

Currituck County Phone: 252.232.3055
Planning and Community Development Fax: 252.232.3026

153 Courthouse Road, Suite 110 Currituck, NC 27929

COTTIOCK, TVC 27727

Website: http://www.co.currituck.nc.us/planning-community-development.cfm

Currituck County Phone: 252.232.6035

Engineering Department 153 Courthouse Road, Suite 302 Currituck, NC 27929

General

Major stormwater plan approval is required for:

- Major subdivisions.
- Major site plans development or expansion on a nonresidential, multi-family, or mixed use lot by 5,000 square feet or more of impervious coverage or resulting in 10% or more total impervious coverage.

Step 1: Application Submittal

The applicant must submit a complete application packet consisting of the following:

- Completed Currituck County Minor Stormwater Plan Form SW-002 (unless submitting a major subdivision or major site plan).
- O Completed Rational Method Form SW-003 or NRCS Method Form SW-004.
- Stormwater management plan drawn to scale. The plan shall include the items listed in the major stormwater plan design standards checklist.
- Alternative stormwater runoff storage analysis and/or downstream drainage capacity analysis, if applicable.
- NCDENR permit applications, if applicable.
- O Number of Copies Submitted:
 - 3 Copies of required plans
 - 3 Hard copies of ALL documents
 - 1 PDF digital copy (ex. Compact Disk e-mail not acceptable) of all plans AND documents.

On receiving an application, staff shall determine whether the application is complete or incomplete. A complete application contains all the information and materials listed above, and is in sufficient detail to evaluate and determine whether it complies with appropriate review standards. An application for major stormwater plan must be submitted and approved prior altering an existing drainage system, performing any land disturbing activity or, before construction documents are approved.

Step 2: Staff Review and Action

Once an application is determined complete staff shall approve, approve subject to conditions or disapprove the application.



Major Stormwater Plan Form SW-002

:

Contact Information			
APPLICANT:		PROPERTY OWNER:	
Name:		Name:	
Address:		Address:	
Telephone:		Telephone:	
E-Mail Address:		E-Mail Address:	
Property Information			
Physical Street Address:			
Parcel Identification Number(s):			
FEMA Flood Zone Designation:			
Request			
Project Description:			
Total land disturbance activity:	sf	Calculated volume of BMPs:	sf
Maximum lot coverage:	sf	Proposed lot coverage:	sf
TYPE OF REQUEST			
Major subdivision (10-year, 24-hour roMajor site plan (5-year, 24-hour rate)	ate)		
METHOD USED TO CALCULATE PEAK DISCHAR □ Rational Method □ NRCS Method (TR-55 and TR-20) □ Simple volume calculation for small site	es (less th	nan 10 acres)	
Alternative stormwater runoff storageDownstream drainage capacity analys	•		
I hereby authorize county officials to enter n information submitted and required as part of		erty for purposes of determining compliance. ess shall become public record.	All
Property Owner(s)/Applicant		Date	

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:	
Project Name:	
Applicant/Property Owner:	

Min	or Stormwater Plan Design Standards Checklist	
	General	
1	Property owner name and address.	
2	Site address and parcel identification number.	
3	North arrow and scale to be 1" = 100' or larger.	
	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.	
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	
10	of surface materials.	
10	Existing and proposed drainage patterns, including direction of flow.	
11	Location, capacity, design plans (detention, retention, infiltration), and design	
10	discharge of existing and proposed stormwater management features.	
12	Elevation of the seasonal high water level as determined by a licensed soil scientist.	
13	Plant selection.	
1.4	Permits and Other Documentation	1
14	NCDENR stormwater permit application (if 10,000sf or more of built upon area).	
15	NCDENR erosion and sedimentation control permit application (if one acre or more of land	
1./	disturbance).	
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	
19	Alternative stormwater runoff storage analysis and/or downstream drainage capacity	
	analysis, if applicable	
20	Design spreadsheets for all BMPs (Appendix F – Currituck County Stormwater Manual).	
21	Detailed maintenance plan for all proposed BMPs.	

	Certificate	
22	The major stormwater plan shall contain the following certificate:	
	I,, owner/agent hereby certify the information included on this and attached pages is true and correct to the best of my knowledge.	
	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:	
Maj	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 until ermined to be complete.	
	ajor Stormwater Plan Form SW-002 omittal Checklist	
Date	e Received:	
Proje	ect Name:	
Арр	licant/Property Owner:	
Mai	or Stormwater Plan Form SW-002 Submittal Checklist	
1	Completed Major Stormwater Plan Form SW-002	
2	Completed Rational Method Form SW-003 or NRCS Method Form SW-004	
3	Stormwater plan	
4	NCDENR permit applications, if applicable	
5	3 copies of plans	
6	3 hard copies of ALL documents	
7	1 PDF digital copy of all plans AND documents (ex. Compact Disk — e-mail not acceptable)	
Com	nments	



Rational Method Peak Flow Form SW-003

Project Information				
Project Location: Moyock Commons Drive,	Moyock, NC 27958			
Parcel Identification Number(s): 015B0000014	40000			
1 421	<u>ac</u>			
Average Slope: N/A	<u>%</u>			
Maximum Slope Length: N/A	<u>ft</u>			

Calculations

^{*}The Rational Method may only be used where development will impact less than 10 acres

Time of Concentration (Tc) (Use additional sheets if necessary)				
,	Pre-	Post-		
Sheet Flow				
Manning's roughness, n (Table 2-4)				Assumed 5
2-year, 24-hour Rainfall, P	4.0	6.0	in	minute time of
Slope, S			ft/ft	concentration.
Length of Sheet Flow, L (<=300 feet)			ft	
Total Time for Sheet Flow			min	
Shallow Concentrated Flow				
Surface Paved (P) or Unpaved (U)				
Length of flow, L			ft	Assumed 5
Slope, S			ft/ft	minute time of concentration.
Average Velocity, V (Table 2-3)			ft/min	Concentration.
Total Time for Shallow Concentrated Flow			min	
Channel Flow				
Pipe (P) or Channel (C)				
If pipe: Diameter, D			in	
If channel: Bottom Width, w	\		ft	Assumed 5
If channel: side slope 1 (:1)				minute time of concentration.
If channel: side slope 2 (:1)				Concentration.
Cross sectional flow area, A			sq ft	
Wetted perimeter, Wp			ft	
Hydraulic radius, R = A/Wp	/	\	ft	

	Pre-	Post	-		
Channel slope, S				ft/ft	
Manning's roughness, n (Table 2-4)		\ /			Assumed
Channel velocity		X		ft/sec	minute tin
Length of Flow, L				ft/sec	concentra
Total Time for Channel Flow				min	
Total Time of Concentration, Tc	5			min	
Pre-development Conditions					
Land Use Description	С	Area (acr	۵۶۱	C*A	
Woods	0.2	1.421	<u> </u>	0.284	
Total	0.2	1.741		0.284	
Intensity for 2-year, 24-hour storm (Table 2-5)	(0.156		_ in/hr	
Pre-development peak flow, Q = CiA		0.044		cfs	
Post-development Conditions	С	A /	\	C*A	
Land Use Description Ditch Northeast		Area (acr 0.533	esj	C*A 0.235	
Ditch Southwest		0.863		0.255	
3 (Parking Lot Area to Inlet)		0.025		0.437	
o (i dirining zotr nod to miloy	0.00			0.020	
Totals					
		0.502			
Area-weighted C:		0.503		_	
Intensity for 10-year, 24-hour storm (Table 2-5)		0.239		_ in/hr	
Post-development peak flow, Q = CiA		0.171		_ cfs	
Minimum Storage Volume Required - Refer to Sect	ion 2.4.4 for	Volume C	alcula	tions	
Storage Volume, V_{s}		/A; exist		_ ft³	
	det	ention b	asın		

Currituck County

Public Services Department

Will Rumsey, Utilities Manager



446 Maple Rd. Maple NC 27956 Phone 252-232-6061 Fax 252-453-3721

Email: will.rumsey@CurrituckCountyNC.gov

April 3rd, 2023 Mr. Simon Mueller/Project Manager 1703 North Parham Road, Suite 202 Henrico, VA 23229

This letter serves as notice that Moyock Commons Wastewater Treatment Plant can serve your projected flow of 1,390 gpd and that you are allocated for that amount.

Moyock Commons NC WWTP Permit Number WQ0015053

Sincerely,

Will Rumsey Utilities Manager Currituck County

34359

DATE	INVOICE NO.	COMMENT	AMOUNT	NET AMOUNT
04/06/2023	B7011.02	B7041.02 Bob's Gun Shop submittal		200.00
DATE 04/06	/23	VENDOR North Carolina Dept of Environmental Qualit	TOTAL	200.00



Koontz Bryant Johnson Williams Inc 1703 N. PARHAM ROAD, #202

1703 N. PARHAM ROAD, #202 HENRICO, VA 23229 (804) 740-9200 SOUTH STATE BANK

67-98 532

34359

Two Hundred and no/100

DATE

AMOUNT

0

04/06/23

34359

\$200.00

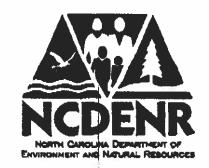
PAY TO THE ORDER OF NORTH CAROLINA DEPT OF ENVIRONMENTAL QUALITY

AUTHORIZED SIGNATURE

#034359# #:053200983#: 9800 85609#

State of North Carolina
Department of Environment
and Natural Resources
Division of Water Quality

James B. Hunt, Jr., Governor Wayne McDevitt, Secretary A. Preston Howard, Jr., P.E., Director



DIVISION OF WATER QUALITY
October 30, 1998

Currituck Commercial Center Attn: Mr. Russell E. Twiford 2101 River Shore Drive Elizabeth City, NC 27909

Subject:

Stormwater Permit No. SW7980513 Currituck Commercial Center High Density Stormwater Project Currituck County

Dear Mr. Twiford:

The Washington Regional Office received the completed Stormwater Application for the subject project on October 28, 1998. 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. SW7980513 dated October 30, 1998 to Mr. Russell E. Twiford.

This permit shall be effective from the date of issuance until October 30, 2008 and shall be subject to the conditions and limitations as specified therein. Please pay special attention to the Operation and Maintenance requirements in this permit. Failure to establish an adequate system for operation and maintenance of the stormwater management system will result in future compliance problems.

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, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

Currituck Commercial Center Mr. Russell E. Twiford October 30, 1998 Page Two

If you have any questions, or need additional information concerning this matter, please contact Bill Moore at (252) 946-6481, extension 264.

Sincerely,

Jim Mulligan
Water Quality Regional Supervisor
Washington Regional Office

cc: Bissell Professional Group Currituck County Inspections Washington Regional Office Central Files State Stormwater Management Systems
Permit No. SW7980513

STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY

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

Mr. Russell E. Twiford

Currituck County

FOR THE

construction, operation and maintenance of stormwater management systems 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 Water Quality and considered a part of this permit for a wet detention pond to serve Currituck Commercial Center located at Moyock, NC.

This permit shall be effective from the date of issuance until October 30, 2008 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 on page 4 of this permit, the Project Data Sheet.
- 3. Approved plans and specifications for this project are incorporated by reference and are enforceable parts of the permit.

DIVISION OF WATER QUALITY PROJECT DATA

Project Name: Currituck Commercial Center

Permit Number: SW7980513

Location: Currituck County

Applicant: Mr. Russell E. Twiford

Mailing Address: 2101 River Shore Drive

Elizabeth City, NC 27909

Application Date: 5/06/98; original 10/28/98; complete

Water Body Receiving Stormwater

Runoff: Northwest River

Classification of Water Body: SC

Total Site Area: 25.96 acres

Total Imper. Surfaces Allowed: 16.40 acres

Pond/Basin Depth: 4.0 feet

Required Surface Area: 45,233 square feet

Provided Surface Area: 46,728 square feet

Required Storage Volume: 67,654 cubic feet

Provided Storage Volume: 78,433 cubic feet

Controlling Orifice: 3.0 inch orifice

6300

- 4. No homeowner/lot owner/developer shall be allowed to fill in, alter, or pipe any vegetative practices (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.
- 5. The following items will require a modification to the permit:
 - a. Any revision to the approved plans, regardless of size
 - p. Project name change
 - c. Transfer of ownership
 - d. Redesign or addition to the approved amount of built-upon
 - e. Further subdivision of the project area.

In addition, the Director may determine that other revisions to the project should require a modification to the permit.

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.

II. SCHEDULE OF COMPLIANCE

- 1. The permittee will comply with the following schedule for construction and maintenance of the stormwater management system.
 - a. 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 surfaces except roads.
 - b. During construction, erosion shall be kept to a minimum and any eroded areas of the system will be repaired immediately.
- 2. The facilities must be properly maintained and operated at all times. The approved Operation and Maintenance Plan must be followed in its entirety and maintenance must occur at the scheduled intervals.
- 3. The permittee shall at all times provide the operation and maintenance necessary to assure the permitted stormwater system functions at optimum efficiency including, but not limited to:

5. Semiannual scheduled inspections (every 6 months)

Sediment removal

c. Mowing and revegetation of side slopes

Immediate repair of eroded areas

e. Maintenance of side slopes in accordance with approved plans and specifications

f. Debris removal and unclogging of outlet structure, orifice device and catch basins and piping.

- 4. Records of maintenance activities must be kept and made available upon request to authorized personnel of DWQ. The records will indicate the date, activity, name of person performing the work and what actions were taken.
- 5. 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.
- 6. Upon completion of construction 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. Mail the Certification to the Washington Regional Office, 943 Washington Square Mall, Washington, North Carolina, 27889, attention Division of Water Quality.
- 7. A copy of the approved plans and specifications shall be maintained on file by the Permittee for a minimum of five years from the date of the completion of construction.

III. GENERAL CONDITIONS

- 1. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Water Quality accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.
- 2. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to enforcement action by the Division of Water Quality, in accordance with North Carolina General Statute 143-215.6(a) to 143-215.6(c).
- 3. 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.

- 4. 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.
- 5. 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.

Permit issued this the 30 th day of October, 1998.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

A. Preston Howard, Jr., P.E., Director Division of Water Quality

By Authority of the Environmental Management Commission

Permit Number SW7980513

registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically/weekly/full time)

the construction of the project,

(Project Owner)

hereby state that to the best of my abilities, due care and diligence was used in the observation of the project construction such that the construction was observed to be built within substantial compliance and intent of the approved plans and specifications.

Signature

Registration Number

Date



State of North Carolina

Department of Environment and Natural Resources Washington Regional Office

James B. Hunt, Jr., Governor

Wayne McDavitt, Secretary

DIVISION OF LAND RESOURCES LAND QUALITY SECTION June 5, 1998

LETTER OF APPROVAL WITH MODIFICATION

Mr. Russell E. Twiford 2101 River Shore Road Elizabeth City, North Carolina 27909

RE: Erosion and Sedimentation Control Plan
Currituck Commercial Center
US 168 - Currituck County
Drainage Basin: Pasquotank
Date Received: May 13, 1998

Responsible Party: Russell E. Twiford

Dear Mr Twiford:

This office has completed its review of the erosion and sedimentation control plan for the referenced 4.7 acre disturbance. We have determined the submitted plan for the construction of roads, drainage and an infiltration pond (as shown on the revised project drawing dated 6/3/98), if properly implemented, will meet the minimum requirements of the Act and hereby issue this LETTER OF APPROVAL WITH the following MODIFICATION.

An appropriate and properly installed sediment control measure must be provided at the discharge of the new "ditch" at the northeast corner of the tract.

In 1973, the Sedimentation Pollution Control Act (copy available upon request) was enacted. It established a performance oriented program requiring a project owner or developer to protect adjoining natural resources and properties, both during and after construction, from the effects of accelerated erosion. It is YOUR RESPONSIBILITY to understand and comply with the requirements of the Act.

In addition to any above listed modifications or conditions, the following also apply to the approved plan:

an erosion and sedimentation control plan is only valid for 3 years following the date of initial approval, if no land-disturbing activity has been undertaken;

Mr. Russell E. Twiford June 5, 1998 Page 2

- a copy of the latest <u>approved</u> soil erosion and control plan must be on-file at the job site;
- a buffer zone, sufficient to restrain visible sedimentation, must be provided and maintained between the land-disturbing activity and any adjacent property or watercourse;
 - new or affected slopes must be at an angle that can be retained by vegetative cover;
 - barren slopes must be provided with a ground cover sufficient to restrain erosion within 30 working days of completion of any phase (rough or final) of grading (RYE GRASS IS NOT in the approved seeding specifications nor is it an ACCEPTABLE substitute for the providing of a ground cover);
 - unless a temporary, manufactured, lining material has been specified, a clean straw mulch must be applied, at the minimum rate of 2 tons/acre, to all seeded areas. The mulch must cover at least 75% of the seeded area after it is either tacked, with an acceptable tacking material, or crimped in place;
 - in order to meet the intent of the Act, the scheduling of the land disturbing activities is to be such that both the area of exposure and the time between the land disturbance and the providing of a ground is minimized;
 - a permanent ground cover, sufficient to restrain erosion, must be provided within the shorter of 30 working or 120 calendar days after completion of construction or development; and
 - this approval and the financial responsibility/liability cited in it does not automatically transfer with a change in project ownership.

Be advised that to ensure compliance with the approved plan and the program requirements, unannounced periodic inspections will be made. If the implemented plan is determined to be inadequate, this office may require that it be revised to comply with state law. Failure to comply with any part of the approved plan or with any requirements of this program, could result in the taking of appropriate legal action against the financially responsible party (Russell E. Twiford). One option is the assessing of a civil penalty of up to \$500 per day for each day the site is out of compliance.

In recognizing the desirability of early coordination of sedimentation control, we believe it would be beneficial for you and your contractor to arrange a preconstruction conference to

Mr. Russell E. Twiford June 5, 1998 Page 3

discuss the requirements of the approved erosion and sedimentation control plan. It would be appreciated if you would contact this office to advise Bill Crew (252-946-6481, ext. 374) of the construction start-up date, contractor and an on-site contact person or, please, complete and return the attached Project Information sheet to the above named.

The land disturbing activity described in this plan may require approval or permitting from other Federal. State or local agencies. These could include the U.S. Army Corps of Engineers under Article 404 jurisdiction, the Division of Water Quality - Surface Water Section under stommwater regulations (contact Bill Moore, 252-946-6481, ext. 264), county, city or town agencies under other local ordinances, or other approvals that may be required. This approval does not supersede any other approval or permit.

Sincerely,

Patrick H. McClain, P.E. Assistant Regional Engineer

PHM:pm

Enclosures

David Ryan, Bissell Professional Group

WUNC 6. 1988

CERTIFICATE OF PLAN APPROVAL



permanent groundcover as required by North Carolina Administrative Code, Title 15A, Chapter 4B.0027(b). C922/7002 (Chapter 4B.0027(b). Administrative Code, Title 15A, Chapter 4B.0007 (c). This certificate must be posted at The posting of this certificate certifies that an erosion and sedimentation control the primary entrance of the job site before construction begins and until establishment of General Statute 113A - 57 (4) and 113A - 54 (d) (4) and North Carolina plan has been approved for this project by the North Carolina Department of Environment, Health, and Natural Resources in accordance with North Carolina

US 168 - CAZEITHER Count

Project Name and Location

Date of Plan Approval 6-5-98

Kegional Engineer

State of North Carolina
Department of Environment
and Natural Resources
Division of Water Quality

James B. Hunt, Jr., Governor Wayne McDevitt, Secretary A. Preston Howard, Jr., P.E., Director NCDENR
NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES

June 18, 1998

C. Brantley Tillman, President Commercial Properties, Inc. 1648 F North Market Drive Raleigh, North Carolina 27609

Subject: Permit No. WQ0015053

Commercial Properties, Inc.

Moyock Commons Shopping Center and

Currituck Commercial Center Wastewater Treatment and

Low-Rate Wastewater Disposal Facilities

Currituck County

Dear Mr. Tillman:

In accordance with your application received March 4, 1998, we are forwarding herewith Permit No. WQ0015053, dated June 18, 1998, to Commercial Properties, Inc. for the construction and operation of the subject wastewater treatment system and low-rate infiltration wastewater disposal facilities.

This permit shall be effective from the date of issuance until May 31, 2003, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements in this permit. Failure to establish an adequate system for collecting and maintaining the required operational information will result in future compliance problems.

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, P.O. Drawer 27447, Raleigh, NC 27611-7447. 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 matter, please contact Mr. Randy Kepler at (919) 733-5083 extension 544.

Sincerery,

🗸 A. Preston Howard, Jr., P.E.

cc: Currituck County Health Department
Bissell Professional Group
Washington Regional Office, Water Quality Section
Washington Regional Office, Groundwater Section
Bob Cheek, Groundwater Section, Central Office
Technical Assistance and Certification Unit
Non-Discharge Compliance/Enforcement Unit

PO Box 29535, Raleigh, North Carolina 27626-0535 An Equal Opportunity Affirmative Action Employer

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NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

RALEIGH

LOW RATE WASTEWATER 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

Commercial Properties, Inc.

Currituck County

FOR THE

construction and operation of a 40,000 wastewater collection, treatment and disposal system.

The wastewater collection system shall consist of approximately 2,625 linear feet of 8-inch gravity sewer and an 80 GPM pump station with dual pumps, high water alarms, and approximately 815 linear feet of 4-inch force main.

The 40 000 GPD extended aeration wastewater treatment plant shall consist of a continuous monitoring flow recorder, a 10,000 gallon equalization basin with two 28 GPM pumps, a manually cleaned bar screen, flow splitter box, two 20,029 gallon coarse bubble aeration basins, two 8,390 gallon clarifiers, a 3,938 gallon aerated sludge holding tank, two 206 CFM blowers, dual bed tertiary filters (each filter measuring fourteen square feet), a tablet chlorinator with an 1,111 gallon chlorine contact chamber, a 2,500 gallon effluent dosing tank with two 90 GPM pumps and high water alarms, and a stand-by generator with automatic transfer switch to serve the WWTP and collection system pump station.

The low-rate wastewater disposal system shall consist of two 27,500 square foot infiltration basin which are fed by constructed wetlands for nitrogen removal

The collection, treatment and disposal system will serve approximately 233,000 square foot of retail space and one 200-sear restaurant in the Moyock Commons Shopping Center and Currituck Commercial Center, with no discharge of wastes to the surface waters, pursuant to the application received March 4, 1998, and in conformity with the project plan, 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 May 31, 2003, and shall be subject to the following specified conditions and limitations:

I. PERFORMANCE STANDARDS

1. Upon completion of construction and prior to operation of this permitted facility, a certification must be received from a professional engineer certifying that the permitted facility has been installed in accordance with this permit, the approved plans and specifications, and other supporting materials. If this project is to be completed in phases and partially certified, you 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 Non-Discharge Permitting Unit, P.O. Box 29535, Raleigh, NC 27626-0535.

- 9. The Permittee, at least six (6) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.
- The Operational Agreement between the Permittee and the Environmental Management Commission is incorporated herein by reference and is a condition of this Permit. Noncompliance with the terms of the Operational Agreement shall subject the Permittee to all sanctions provided by North Carolina General Statute 143-215.6A to 143-215.6C for violation of or failure to act in accordance with the terms and conditions of this Permit.

Permit issued this the eighteenth day of June, 1998

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

A. Preston Howard, Jr., P.E., Director

Division of Water Quality

By Authority of the Environmental Management Commission

Permit Number WQ0015053