
TYRRELL COUNTY/ TOWN OF COLUMBIA

CAMA CORE LAND USE PLAN EXECUTIVE SUMMARY



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TABLE OF CONTENTS

	<u>PAGE</u>
I. INTRODUCTION	1
A. Background	1
B. Why Plan?	2
C. Regulatory Authority and Planning Model	3
II. VISION STATEMENT	3
III. KEY ISSUES/DOMINANT GROWTH-RELATED ISSUES	4
IV. POPULATION SUMMARY	5
V. HOUSING SUMMARY	6
VI. EMPLOYMENT AND ECONOMIC SUMMARY	7
VII. ENVIRONMENTAL CONDITIONS	7
A. Pasquotank River Basin	8
B. Subbasin 03-01-51	8
C. Subbasin 03-01-53	10
D. Registered Animal Operations within Pasquotank River Basin	11
E. Growth Trends	11
VIII. ANALYSIS OF LAND USE AND DEVELOPMENT	11
A. Introduction	11
B. Land Use in Relation to Water Quality	12
C. Existing Land Use	13
IX. LAND USE/DEVELOPMENT GOALS AND IMPLEMENTING ACTIONS	14
A. Introduction	14
B. Impact of CAMA Land Use Plan Policies on Management Topics	14
C. Public Access	15
D. Land Use Compatibility	17
E. Infrastructure Carrying Capacity	26

F.	Natural Hazard Areas	32
G.	Water Quality	34
H.	Local Areas of Concern	38

TABLES

Table 1	Tyrrell County, Region R, and North Carolina Total Population and Percentage Change, 1970-2000	5
Table 2	Tyrrell County and Town of Columbia Population Growth by Township	6
Table 3	Subbasin 03-01-51 Description	8
Table 4	Subbasin 03-01-53 Description	10
Table 5	Pasquotank River Basin Registered Animal Operations	11
Table 6	Tyrrell County 2006 Existing Land Use Acreages	13
Table 7	Town of Columbia 2006 Existing Land Use Acreages	13

EXECUTIVE SUMMARY

I. INTRODUCTION

A. Background

This Fiscal Year 2005/2006 - 2006/2007 Tyrrell County CAMA Core Land Use Plan is prepared in accordance with the requirements of the North Carolina Coastal Area Management Act (CAMA). Specifically, this document complies with Subchapter 7B, "CAMA Land Use Planning Requirements," of the North Carolina Administrative Code, as amended, August 1, 2002. This plan will serve to address the substantial development pressures and economic development challenges that the county will face over the next five to ten years. The policies and implementing actions included in this plan will be used to guide development in the CAMA major and minor permitting process.

The 7B guidelines provide that each of the twenty coastal counties and the municipalities within those counties prepare and adopt a CAMA Core Land Use Plan that meets the planning requirements adopted by the Coastal Resources Commission (CRC). If a County chooses not to prepare a plan, the guidelines specify that the CRC will prepare and adopt a CAMA Land Use Plan for that County and the municipalities in the County which choose not to prepare their own plan. Municipalities not preparing their own plan will be included in the plan for the County in which the municipality is located. There is only one incorporated municipality within Tyrrell County; the Town of Columbia will be participating in the planning process.

In general, 7B requires that a plan include an analysis of existing and emerging conditions, a plan for the future including specific land use/development goals/policies, and tools for managing development. The management tools must specify the actions that Tyrrell County will take to implement this plan.

Tyrrell County adopted a Citizen Participation Plan which is intended to ensure that all interested citizens have an opportunity to participate in the development of this plan through both oral and written comments. An ad hoc committee was appointed by Tyrrell County to oversee the development of this plan. The committee includes representatives from both Tyrrell County and the Town of Columbia.

Following adoption of the plan by the Tyrrell County Board of Commissioners and the Town of Columbia Board of Aldermen, it was submitted to the CRC for certification. Certification of the plan was achieved on _____, 2010.

B. Why Plan?

In the early 1970's, North Carolina and other coastal states found that their precious coastal areas, including coastal sound and estuarine areas like those bordering Tyrrell County, were under threat from pollution caused by population growth, industrial development, and increased recreational usage. In response to these threats, the North Carolina legislature passed CAMA in 1974.

As the threats to the coastal environment have only increased since CAMA's adoption, the following goals for coastal management set by CAMA in 1974 continue to summarize the benefits of planning in protecting sensitive coastal areas:

- (1) To provide a management system capable of preserving and managing the natural ecological conditions of the estuarine system, the barrier dune system, and the beaches, so as to safeguard and perpetuate their natural productivity and their biological, economic, and aesthetic values;
- (2) To ensure that the development or preservation of the land and water resources of the coastal area proceeds in a manner consistent with the capability of the land and water for development, use, or preservation based on ecological considerations;
- (3) To ensure the orderly and balanced use and preservation of our coastal resources on behalf of the people of North Carolina and the nation;
- (4) To establish policies, guidelines, and standards for:
 - (a) Protection, preservation, and conservation of natural resources including but not limited to water use, scenic vistas, and fish and wildlife; and management of transitional or intensely developed areas and areas especially suited to intensive use or development, as well as areas of significant natural value;
 - (b) The economic development of the coastal area, including but not limited to construction, location and design of industries, port facilities, commercial establishments, and other developments;
 - (c) Recreation and tourist facilities and parklands;
 - (d) Transportation and circulation patterns for the coastal area including major thoroughfares, transportation routes, navigation channels and harbors, and other public utilities and facilities;
 - (e) Preservation and enhancement of the historic, cultural, and scientific aspects of the coastal area;

- (f) Protection of present common-law and statutory public rights in the lands and waters of the coastal area (Source: NCGS 113A-102).

Specifically, the CAMA Land Use Plan will be used by the North Carolina Coastal Resources Commission (CRC) to determine whether any given development proposal subject to a major CAMA permit is consistent with the County/Town's goals for its future development and for environmental protection. The Land Use Plan will be used by the county and town's Planning Board and Commissions to determine the appropriateness of zoning classifications at specific sites and other land use decisions. Together, these planning documents will help guide the future land use in Tyrrell County and the Town of Columbia.

C. Regulatory Authority and Planning Model

This plan is intended to fulfill the Coastal Area Management Act (CAMA) requirements for the preparation of a Core CAMA Land Use Plan. This plan is organized to adhere to 15A NCAC 7B requirements, specifically rule .0702, which specifies the required content of CAMA land use plans. A matrix is provided immediately following the Table of Contents, which specifies how and where in this Plan compliance with 15A NCAC 7B is accomplished.

II. VISION STATEMENT

Tyrrell County aims to maintain the county's rural character, while focusing on the preservation of agriculture, affordable housing, and the protection of environmental resources. Tyrrell County will plan for and accommodate future growth while simultaneously maintaining the quality of life for current and future residents. Tyrrell County will pursue accomplishment of the following statements:

- Set high standards for responsible, well managed growth and guide development patterns through comprehensive planning and community development.
- Promote the establishment of programs aimed at providing lifelong education opportunities for Tyrrell County residents, as well as the region.
- Identify goals and propose strategies for the development of new businesses and industries, agribusinesses, seafood products, and eco-tourism.
- Provide county-wide services that enhance the health, safety, and quality of life for Tyrrell County citizens.

III. KEY ISSUES/DOMINANT GROWTH-RELATED ISSUES

It is very useful for a community to determine the key concerns and growth-related issues at the beginning of the planning process. In order to solicit input from Tyrrell County/Town of Columbia citizens, an issues identification meeting was held on February 8, 2006. Approximately 65 residents attended this work session. At this meeting, an open floor discussion was held regarding issues that residents felt would have a significant impact on the future of Tyrrell County/Town of Columbia. The list provided below is a ranking of the issues identified at this meeting. During the course of this meeting, all issues identified were listed. Subsequent to the discussion portion of the meeting, all attendees were asked to vote on what they felt were the top ten most significant concerns or issues listed. There are several issues whose rank is tied because they received the same number of votes.

Rank	Issue	# of Votes
1	Cleanout of arterial canals	28
2	Stormwater Best Management Practices	23
3	Street/road maintenance	22
4*	Police protection	21
5*	Protection of farmland	21
6*	Preservation of tax base	21
7*	Protection of water quality	20
8*	Medical/mental health services	20
9*	Maintenance of stormwater drainage	20
10	Water and sewer development	18
11	Assisted living/nursing home development	17
12	Public access waterfront	14
13*	Riparian buffers	13
14*	Increased recreational opportunities "YMCA"	13
15*	Racial diversity	12
16*	Affordable housing	12
17*	Address the issue of providing higher educational opportunities	12
18	Overall growth and zoning	11
19*	Encourage mixed use development in downtown Columbia	10
20*	Protection of wetlands	10
21*	Develop a comprehensive plan for the Town of Columbia	10
22	Code enforcement (various codes - junked cars, mobile homes)	9
23	Downtown parking	8
24*	Promote tourism (eco tourism)	7
25*	Discourage strip development	7

Rank	Issue	# of Votes
26*	"Green Building"	7
27	Low impact development	6
28	Minimize land use conflicts	4
29*	Reducing stream sedimentation	3
30*	Height and setback restrictions in AECs	3
31	Limit habitat fragmentation	2
32	Conflicted uses of airspaces	1
33*	Wetland mitigation	0
34*	Air quality	0

IV. POPULATION SUMMARY

Historical population growth and forecast of population growth are summarized in the following tables.

Table 1. Tyrrell County, Region R, and North Carolina
Total Population and Percentage Change, 1970-2000

County	Total Population				Population % Change			Overall
	1970	1980	1990	2000	'70-'80	'80-'90	'90-'00	
Camden	5,453	5,829	5,904	6,885	6.9%	1.3%	16.6%	26.3%
Chowan	10,764	12,558	13,506	14,526	16.7%	7.5%	7.6%	34.9%
Currituck	6,977	11,089	13,736	18,190	58.9%	23.9%	32.4%	160.7%
Dare	6,996	13,377	22,746	29,967	91.2%	70.0%	31.7%	328.3%
Gates	8,525	8,875	9,305	10,516	4.1%	4.8%	13.0%	23.4%
Hyde	5,570	5,873	5,411	5,826	5.4%	-7.9%	7.7%	4.6%
Pasquotank	26,824	28,462	31,298	34,897	6.1%	10.0%	11.5%	30.1%
Perquimans	8,352	9,486	10,447	11,368	13.6%	10.1%	8.8%	36.1%
Tyrrell	3,806	3,975	3,856	4,149	4.4%	-3.0%	7.6%	9.0%
Washington	14,039	14,801	13,997	13,723	5.4%	-5.4%	-2.0%	-2.3%
Region R	97,306	114,325	130,206	150,047	17.5%	13.9%	15.2%	54.2%
North Carolina	5,084,442	5,880,095	6,632,448	8,049,313	15.6%	12.8%	21.4%	58.3%

Source: US Census Bureau.

Table 2. Tyrrell County and Town of Columbia
Population Growth by Township

Township	1970	1980	1990	2000	2000 % of Total	'70-'00 Growth
Alligator	482	477	437	381	9.2%	-21.0%
Columbia	1,910	2,098	2,181	2,590	62.4%	35.6%
Gum Neck	523	474	438	462	11.1%	-11.7%
Scuppernong	838	864	755	673	16.2%	-19.7%
South Fork	53	62	45	43	1.0%	-18.9%
Tyrrell County	3,806	3,975	3,856	4,149	100.0%	9.0%
Town of Columbia	902	758	836	819	19.7%	-9.2%

Source: US Census Bureau.

The following provides a summary of the significant demographic factors:

- The county experienced a 9% growth in population during the period of 1970 - 2000.
- Columbia Township is the fastest growing township in the county with a population increase of 35.6% since 1970.
- The county's overall population is fairly young in age with 44.6% of the citizens being below 35 years of age.
- There are no significant non-White or non-Black racial groups in Tyrrell County.
- The population at retirement age is low throughout the county. This situation is expected to change dramatically once additional development occurs.
- Both the Town of Columbia and Tyrrell County are above the state average in terms of high school graduates.

V. HOUSING SUMMARY

- Tyrrell County housing stock increased by 125 units to 2,032 dwelling units between 1990 and 2000.
- The Tyrrell County Planning Board has approved 282 platted lots which are proposed for future development.

- The median age of structures in the Town of Columbia is 51 years. The county's median age is 31 years.
- The percentage of homes lacking complete infrastructure (kitchen and bathroom facilities) is substantially higher than the state overall.
- The housing stock in Columbia as well as the rest of the county is dominated by single-family detached homes and mobile homes.

VI. EMPLOYMENT AND ECONOMIC SUMMARY

- Tyrrell County ranks 99th in terms of median household income statewide.
- The Town of Columbia's median household income of \$20,588 is only 53% of the state's average income of \$39,184.
- The largest employment sector in Columbia is Arts, Entertainment, Recreation, and Accommodations while the county's biggest sector is Agriculture, Forestry, Fishing, and Hunting.
- The top employers in the county are the Tyrrell County Board of Education and the State of North Carolina.
- The highest average weekly wage in the county is \$688 which is produced in Finance and Insurance sector.
- The 2000 mean travel time to work for Tyrrell County residents was 32 minutes. Approximately 60-70% of county residents rely on work outside of the county.

VII. ENVIRONMENTAL CONDITIONS

The Pasquotank River Basinwide Water Quality Plan was adopted by the Division of Water Quality in July, 2002, and updated in September, 2007. The following are the goals of DWQ's basinwide program and should be kept in mind when considering future land uses:

- Identify water quality problems and restore full use to impaired waters;
- Identify and protect high value resource waters;
- Protect unimpaired waters while allowing for reasonable economic growth;

- Develop appropriate management strategies to protect and restore water quality;
- Assure equitable distribution of waste assimilative capacity for dischargers; and
- Improve public awareness and involvement in the management of the state's surface waters.

The following provides a summary of existing conditions in the Pasquotank River Basin and subbasins 03-01-51 and 03-01-53. Also included are DWQ recommendations from the 2002 Basinwide Plan.

A. Pasquotank River Basin

The Pasquotank River Basin extends for approximately 145 miles and encompasses 3,635 square miles of low-lying lands and vast open waters, including the Albemarle Sound in the northeast section of the state. The basin is rural in nature. In the center of the basin is the Albemarle Sound with the Pasquotank, Roanoke, North, Little, and Perquimans Rivers draining from the north and the Scuppernong and Alligator Rivers draining from the south. The Pasquotank River Basin encompasses all or portions of 10 counties and 11 municipalities. Table 3 provides a listing of these municipalities.

Pasquotank River Basin Statistics	
Total Area:	3,635 sq. miles
Stream Miles:	474.1
Freshwater Acres:	22,770.2
Estuarine Acres:	918,223.6
Coast Miles:	110.6
No. of Counties:	10
No. of Municipalities:	11
No. of Subbasins:	7
Population (2000):	118,913*
Pop. Density (2000):	32.7 persons/sq. mi.*
*Based on percentage of county land area estimated to be within the basin.	

B. Subbasin 03-01-51

Subbasin 03-01-51 is located partially in Tyrrell, Dare, and Hyde Counties. The population growth is concentrated around Roanoke Island which is the most developed section of the subbasin. There are several public lands and significant natural heritage areas. There are six permitted dischargers in the subbasin. The largest discharger is the Manteo wastewater treatment plant (WWTP) which discharges into Shallowbag Bay.

Table 3 Subbasin 03-01-51 Description	
<u>Land and Water</u>	
Total area:	978 mi ²
Land area:	568 mi ²
Water area:	410 mi ²
<u>Population Statistics</u>	
1990 Est. pop.:	9,240 people
<u>Land Cover</u>	
Forest/Wetland:	53.0%
Surface Water:	39.0%
Urban:	<1.0%
Agriculture:	8.0%

Waters are classified according to their best intended uses. Determining how well a water body supports its designated uses is an important method of interpreting water quality data and assessing water quality. Water bodies are fully supporting (FS), partially supporting (PS), or not supporting (NS). Streams that are classified PS or NS are considered impaired waters. In subbasin 03-01-51, use support ratings were assigned for aquatic life/secondary recreation, primary recreation, and shellfish harvest categories. Almost 53% of waters were evaluated for aquatic life/secondary recreation. One hundred percent (100%) of the monitored waters were supporting for aquatic life/secondary recreation. Ninety-two percent (92%) of waters were evaluated for primary recreation. One hundred percent (100%) were supporting for primary recreation. One hundred percent (100%) of waters were evaluated for shellfish harvest. Ninety-six percent (96%) were supporting for shellfish harvest. All waters in the subbasin are considered impaired for fish consumption. In April 2002, the NC Department of Health and Human Services developed new guidelines to advise people as to what fish are safe to eat. DWQ considers uses of waters with a consumption advice or advisory for one or more species of fish to be impaired. Elevated methylmercury levels have been found in shark, swordfish, king mackerel, tilefish, largemouth bass, bowfin (or blackfish) and chain pickerel (or jack), and these fish species fall under the guidelines.

The following provides the 2002 Pasquotank River Basinwide Management Plan recommendations for subbasin 03-01-51:

- West Shore of Roanoke Sound. Some areas are prohibited for commercial shellfish harvesting. Contamination is a result of nonpoint source pollution from adjacent land uses. The NC Division of Water Quality recommends reviewing the discharge permits for the Wanchese Harbor Project to include fecal coliform monitoring requirements. DWQ also recommends that an Environmental Impact Statement be completed for the project.
- Shallowbag Bay. The Town of Manteo will discuss the reclassification of Shallowbag Bay from SC waters to SB waters. As a result of a dredge spill in a tidal creek, DWQ recommends that dredge spoil analysis consider the full range of particle sizes within potential spoils rather than focusing on the average particle size within the spoil.
- Callaghan Creek. A follow up study will be completed to determine whether or not fire response effects at the Dare County Landfill were contained and diminished. A fire response plan and water disposal options will be discussed.

C. Subbasin 03-01-53

The largest river system in this subbasin is the Scuppernong River. This river drains into the Albemarle Sound. There are three municipalities located within the subbasin: Columbia, Creswell, and Roper. There are seven permitted dischargers in subbasin 03-01-53. All of these dischargers are minor NPDES permits. The total permitted flow is 0.02 MGD. There are eight general stormwater permits in the basin.

Waters are classified according to their best intended uses. Determining how well a water body supports its designated uses is an important method

of interpreting water quality data and assessing water quality. Water bodies are fully supporting (FS), partially supporting (PS), or not supporting (NS). Streams that are classified PS or NS are considered impaired waters. In subbasin 03-01-53, use support ratings were assigned for aquatic life/secondary recreation and primary recreation categories. Ninety-five percent (95%) of estuarine waters (acres) were evaluated for aquatic life/secondary recreation. One hundred percent (100%) of the monitored waters were supporting for aquatic life/secondary recreation. Ninety-five percent (95%) of waters were evaluated for primary recreation. One hundred percent (100%) were supporting for primary recreation. All waters in the subbasin are considered impaired for fish consumption. In April 2002, the NC Department of Health and Human Services developed new guidelines to advise people as to what fish are safe to eat. DWQ considers uses of waters with a consumption advice or advisory for one or more species of fish to be Impaired. Elevated methylmercury levels have been found in shark, swordfish, king mackerel, tilefish, largemouth bass, bowfin (or blackfish) and chain pickerel (or jack), and these fish species fall under the guidelines.

The following are the 2002 Pasquotank River Basinside Management Plan recommendations for subbasin 03-01-53:

- Scuppernong River. The NC Division of Water Quality will determine whether or not ambient conditions in the river are due to natural conditions. DWQ should encourage funding and research for the watershed and will monitor the Tyrrell County Water Treatment Plant and research the relocation of its discharge.
- Kendrick Creek and Main Canal. DWQ will research whether or not the ambient conditions are due to natural conditions and encourage additional funding and research for the watershed because they consider it to be a concern.

Table 4 Subbasin 03-01-53 Description	
<u>Land and Water</u>	
Total area:	475 mi ²
Land area:	336 mi ²
Water area:	139 mi ²
<u>Population Statistics</u>	
1990 Est. pop.:	8,836 people
<u>Land Cover</u>	
Forest/Wetland:	41.0%
Surface Water:	28.0%
Urban:	<1.0%
Cultivated Crop:	30.0%
Pasture/Managed Herbaceous:	4.0%

D. Registered Animal Operations within Pasquotank River Basin

The following table provides a summary of registered animal operations within the Pasquotank River subbasins 03-01-51 and 03-01-53. The numbers only reflect those operations required by law to be registered. There are no registered poultry operations in the subbasins. Five of the swine facilities are located in Tyrrell County.

Table 5. Pasquotank River Basin
Registered Animal Operations

Subbasin	Swine			Cattle		
	No. of Facilities	No. of Animals	Total Steady State Live Weight*	No. of Facilities	No. of Animals	Total Steady State Live Weight*
03-01-51	2	25,350	3,583,050	0	0	0
03-01-53	8	15,241	2,196,085	1	120	96,000

NOTE: There are no registered poultry operations located within these subbasins.

*Steady State Live Weight (SSLW) is the result, in pounds, after a conversion factor has been applied to the number (head count) of swine, cattle, or poultry on a farm. The conversion factors, which come from the Natural Resource Conservation Service (NRCS) guidelines, vary depending on the type of animals on the farm and the type of operation (for example, there are five types of hog farms). Since the amount of waste produced varies by the size of the animal, SSLW is the best way to compare the sizes of the farms.

Source: NC Division of Water Quality Pasquotank River Basinwide Water Quality Plan.

E. Growth Trends

Between 1980 and 1990, the population within the Pasquotank River Basin increased 16.4%. The Pasquotank River Basinwide Water Quality Plan projects percent growth between 1990 and 2020 for counties within the basin. Since river basin boundaries do not coincide with county boundaries, these numbers are not directly applicable to the Pasquotank River Basin. They are estimates of county-wide population changes.

Population growth trends for the basin between 1990 and 2020 indicate two counties with growth rates in excess of 98% and one county with a growth rate of almost 50%, with a total population increase in the basin of 44.0%. According to the Water Quality Plan, Tyrrell County is expected to experience a 17.6% population increase between 1990 and 2020.

VIII. ANALYSIS OF LAND USE AND DEVELOPMENT

A. Introduction

The Division of Coastal Management Land Use Plan Guidelines (15A NCAC 7B.0207) require that existing land uses and water uses be mapped. These maps should be used as working documents and serve as a basis for the development of the future land use map(s). These maps aid in

showing the relationship of land use to water quality. The Coastal Management Land Use Plan Guidelines require that this section of the plan address the following:

- Table that shows estimates of the land area allocated to each land use;
- Description of any land use conflicts;
- Description of any land use – water quality conflicts;
- Description of development trends using indicators. These development trends may include, but are not limited to the following: building permits and platted but un-built lots; and
- Location of areas expected to experience development during the five years following plan certification by the CRC and a description of any potential conflicts with Class II or Class III land identified in the natural systems analysis.

B. Land Use in Relation to Water Quality

Protection of water quality is very important in Tyrrell County. The degradation of water quality can be linked to the location of land uses within an area. Water bodies are polluted, generally, by either point or nonpoint sources. Point source pollutants usually come from regulated, piped discharges such as municipal wastewater treatment plants. Nonpoint source pollutants are carried to water bodies through some type of runoff. The waters can be polluted by sediment, nutrients, fecal coliform bacteria, pesticides, and automobile fluids. Therefore, the location of certain land uses has a large impact on the quality of water.

The Pasquotank River Basinwide Water Quality Plan, completed in 2002 by the North Carolina Division of Water Quality (DWQ), is a non-regulatory, watershed-based approach to restoring and protecting the quality of surface waters. Development of the plan involved several monitoring efforts. These efforts are not intended to provide precise conclusions about pollutant budgets for specific watersheds. Typical monitoring efforts that the DWQ uses in the basin are Benthic Macroinvertebrate testing, Fish Assessments, Aquatic Toxicity Monitoring, Lake Assessments, and Ambient Monitoring Systems.

One primary method of water quality testing was performed in Tyrrell County. The details of this methodology are described below so that the information on the results of this testing can be better understood. The method used was the Ambient Monitoring System. DWQ also observes water bodies for the existence of algal blooms, which are an indication of poor water quality.

The Ambient Monitoring System (AMS) is a network of stream, lake, and estuarine (saltwater) water quality monitoring stations strategically located for the collection of physical and chemical water quality data (or parameters). Water quality parameters are arranged by freshwater or saltwater water body classification and corresponding water quality standards. Under this arrangement, waters are assigned minimum monthly parameters with additional parameters

assigned to waters with classifications such as trout waters and water supplies. During the last assessment, there were six (6) AMS stations within Tyrrell County.

C. Existing Land Use

The following tables provide approximate land use acreage summaries within Tyrrell County and the Town of Columbia.

Table 6. Tyrrell County
2006 Existing Land Use Acreages*

Land Use	Acreage	Percentage
<u>Residential</u>		
Single-Family Residential	1,924.6	0.9%
Residential Agricultural	25,794.2	11.4%
Manufactured Home Park	11.7	0.0%
Subtotal	<u>27,730.5</u>	<u>12.3%</u>
<u>O&I</u>	240.3	0.1%
<u>Recreation</u>	259.8	0.1%
<u>Commercial</u>	639.5	0.3%
<u>Industrial</u>	1,200.0	0.5%
<u>Forest Land</u>	125,031.0	55.4%
<u>Farmland</u>	68,586.6	30.4%
<u>Vacant</u>	2,115.3	0.9%
Total	<u>225,803.0</u>	<u>100.0%</u>

*NOTE: Acreages do not include the Town of Columbia.
Source: Holland Consulting Planners, Inc.

Table 7. Town of Columbia
2006 Existing Land Use Acreages

Land Use	Town Limit Acreage	ETJ Acreage	Total	%
<u>Residential</u>				
Single-Family Residential	150.78	245.94	396.72	15.5%
Residential Agricultural	82.47	304.56	387.03	15.1%
Manufactured Home Park	3.76	0.00	3.76	0.2%
PUD	93.01	0.00	93.01	3.6%
Multi-Family	14.62	0.00	14.62	0.6%
Subtotal	<u>344.64</u>	<u>550.50</u>	<u>895.14</u>	<u>35.0%</u>
<u>O&I</u>	28.55	51.67	80.22	3.1%
<u>Commercial</u>	61.36	46.93	108.30	4.2%
<u>Forest Land</u>	26.95	571.74	598.68	23.3%
<u>Farmland</u>	64.50	535.39	599.89	23.4%
<u>National Wildlife Refuge</u>	3.18	0.00	3.18	0.1%
<u>Vacant</u>	37.56	241.60	279.16	10.9%
Total	<u>566.74</u>	<u>1,997.84</u>	<u>2,564.58</u>	<u>100.0%</u>

Source: Holland Consulting Planners, Inc.

IX. LAND USE/DEVELOPMENT GOALS AND IMPLEMENTING ACTIONS

A. Introduction

The purpose of the Coastal Resources Commission (CRC) management topics are to ensure that CAMA Land Use Plans support the goals of CAMA, to define the CRC's expectations for the land use planning process, and to give the CRC a substantive basis for review and certification of CAMA Land Use Plans. Each of the following management topics (Public Access, Land Use Compatibility, Infrastructure Carrying Capacity, Natural Hazard Areas, Water Quality, and Local Areas of Concern) include three components: a management goal, a statement of the CRC's planning objective, and requirements for the CAMA Land Use Plan. These policies apply to the entire county including the Town of Columbia. The local concerns which should be addressed in this plan are identified on pages 9 and 10. These concerns and issues were utilized to develop the goals and objectives which are included in this plan. Most of the policies and implementing actions are continuing activities. In most situations, specific timelines are not applicable. Refer to page 146 for a list of those policies/implementing actions which have a specific schedule. The policies and implementing actions frequently utilize the following words: should, continue, encourage, enhance, identify, implement, maintain, prevent, promote, protect, provide, strengthen, support, work. The intent of these words is defined in Appendix III. Please note: Policies and Implementing Actions are number consecutively throughout this document with the letter "P" denoting a policy and the letter "I" denoting an implementing action.

NOTE: References to low density residential development throughout the policy section reflect either the low density standards outlined for the Town of Columbia on page 139 or the residential/agricultural and rural residential districts outlined for Tyrrell County on pages 134-137.

B. Impact of CAMA Land Use Plan Policies on Management Topics

The development of this land use plan has relied heavily on the CAMA-prescribed land suitability analysis which is included in Section V.E of this document. It is intended that this document is supportive of the CAMA regulations for protection of AEC's (15A NCAC 7H).

No negative impacts are anticipated by the implementation of the goals, objectives, and policies which are included in this plan. Also refer to Tools for Managing Development, page 145.

Note: It is intended that all policies are consistent with (do not exceed) applicable State and Federal requirements when State and Federal requirements apply.

C. Public Access

1. Management Goal

Tyrrell County and the Town of Columbia will maximize public access to the beaches and the public trust waters of the coastal region.

2. Planning Objective

Tyrrell County and the Town of Columbia will develop comprehensive policies that provide beach and public trust water access opportunities for the public along the shoreline within the planning jurisdiction.

3. Land Use Plan Requirements

The following are Tyrrell County and the Town of Columbia's policies/implementing actions for waterfront access. All policies are continuing activities.

Policies:

- P.1 Tyrrell County and the Town of Columbia support the Tyrrell County visitors center, eco-tourism, and recreational related developments that protect and preserve the natural environment while promoting the County as a tourist destination. It supports the private and public development of waterfront access through private funds and grant monies. It also supports the work of the Partnership for the Sounds and the Albemarle Commission.
- P.2 Tyrrell County and the Town of Columbia support providing shoreline access for persons with disabilities.
- P.3 Tyrrell County/Town of Columbia supports the frequency of shoreline access as defined by 15A NCAC 7M, Section .0300, Shorefront Access Policies. However, emphasis will be placed on providing access to the Scuppernong River, as well as portions of downtown Columbia.
- P.4 Tyrrell County/Town of Columbia supports state/federal funding of piers for crabbing and fishing.
- P.5 Tyrrell County/Town of Columbia supports the development of estuarine access areas to ensure adequate shoreline access within all areas of the County. Areas that have traditionally been used by the public will be given special attention.

- P.6 Tyrrell County/Town of Columbia will seek funding for increased access for canoe and kayaking activities.

Implementing Actions:

- I.1 Tyrrell County/Town of Columbia will work with Pettigrew State Park to increase waterfront access opportunities along the Scuppernong River. Schedule: Fiscal Year 2008-2010.

- I.2 Tyrrell County/Town of Columbia will consider revising its subdivision ordinance to include the provisions of NCGS 153A-331 which allow for requiring the developer of a subdivision to be charged recreation fees as follows: "The subdivision ordinance may provide that a developer may provide funds to the County whereby the County may acquire recreational land or areas to serve the development or subdivision, including the purchase of land which may be used to serve more than one subdivision or development within the immediate area."

The funds may be used to provide increased shoreline access. Schedule: Fiscal Year 2009-2010.

- I.3 Tyrrell County, in conjunction with the Town of Columbia, will prepare a shoreline access plan and request Division of Coastal Management funding for the preparation of the plan. Schedule: Fiscal Year 2009-2010.

- I.4 Tyrrell County and the Town of Columbia will pursue funding under the North Carolina CAMA Shoreline Access funding program (15A NCAC 7M, Section .0300, Shorefront Access Policies). Schedule: Continuing Activity.

- I.5 Tyrrell County and the Town of Columbia will pursue private sources of funding for the development of shoreline access facilities, including donation of land. Schedule: Continuing Activity.

- I.6 The County will cooperate with state and federal agencies to secure estuarine access areas to ensure adequate shoreline access within all areas of the County. Schedule: Continuing Activity.

NOTE: There are no shoreline areas in Tyrrell County/Town of Columbia targeted for shoreline/beach nourishment.

D. Land Use Compatibility

1. Management Goal

Tyrrell County and the Town of Columbia will ensure that development and use of resources or preservation of land minimize direct and secondary environmental impacts, avoid risks to public health, safety, and welfare, and are consistent with the capability of the land based on considerations of interactions of natural and manmade features.

2. Planning Objectives

- i. Tyrrell County and the Town of Columbia will adopt and apply local development policies that balance protection of natural resources and fragile areas with economic development.
- ii. Tyrrell County and the Town of Columbia's policies will provide clear direction to assist local decision making and consistency findings for zoning, divisions of land, and public and private projects.

3. Land Use Plan Requirements

The following are Tyrrell County and the Town of Columbia's policies/implementing actions for land use compatibility:

Policies - Residential:

- P.7 Tyrrell County and the Town of Columbia support revisions to the North Carolina State Statutes which would allow the local imposition of impact fees, or special legislation to allow them in Tyrrell County and the Town of Columbia. Impact fees would be levied against land developers to establish a revenue source to support the additional demand for services generated by the people occupying the proposed developments such as roads, schools, water and sewer infrastructure, and recreational facilities.
- P.8 The county and the town support repair and reconstruction of privately-owned dwelling units through private funds and/or grants. They support the enforcement of existing regulations of the District Health Department regarding sanitary conditions, including the installation of private septic tanks and package treatment plants.
- P.9 The Town of Columbia supports discouraging the re-zoning of existing residentially-developed or zoned areas to a non-residential classification as reasonably possible.

Such re-zoning and amendments in classifications to the future land use map should be carefully balanced with a demonstrated need for such proposed development that will be the best overall land development policy for the town's future land use and protecting established residentially-developed areas.

- P.10 Tyrrell County will consider development of a county-wide zoning ordinance that will assist the county staff and administrators in promoting coordinated development patterns that will protect the rural nature of the County. Additionally, this effort will focus on protecting portions of the county that have been historically utilized for farming practices.
- P.11 Tyrrell County and the Town of Columbia support greater residential densities in areas that are accessible to water and/or sewer service(s). Agricultural and low density residential land uses should be located in areas that do not have county or town water/sewer service. Office/Institutional/Multi-family land uses should be developed along transportation thoroughfares to provide transition between commercial nodes and to preserve vehicle carrying capacity.
- P.12 Tyrrell County and the Town of Columbia support quality development reflecting the spectrum of housing needs, from low-end (affordable) residences to high-end (luxury) residences.
- P.13 Tyrrell County and the Town of Columbia support regulating growth to coincide with the provision of public facilities and services. Within portions of the County where central services are not available (all unincorporated portions of the county outside of the residential future land use district), Tyrrell County supports the use of private wells and package wastewater treatment systems.
- P.14 Tyrrell County supports wooded buffers along thoroughfares, where feasible.
- P.15 Tyrrell County and the Town of Columbia support using Office/Institutional/Multi-family development as a buffer between light industrial and commercial development and adjacent residential land uses.
- P.16 Tyrrell County supports providing adequate conservation/open space buffers between areas designated for residential development and any adjacent non-residential land use, including agricultural areas. This policy should focus on coordinating residential development that falls either adjacent to or within close proximity to farmland.

- P.17 Tyrrell County and the Town of Columbia will support the expansion of both seasonal and year-round residential development as a top priority to stabilize the county's tax base.

Implementing Actions - Residential:

- I.7 Until a County-wide zoning ordinance may be drafted and adopted, the County will continue to rely on the Tyrrell County subdivision ordinance for land use regulation. The Town of Columbia will continue to enforce its current zoning and subdivision regulations. The town will extend its ETJ to the one-mile limit allowed, reflecting recent annexations that have moved the town limits outward. Schedule: Continuing Activity (contingent upon the County developing a zoning ordinance – Fiscal Years 2009-2011).
- I.8 All re-zoning within the Town of Columbia and subdivision approvals will consider the existing and future land use suitability maps and analyses which are included in this plan. As noted, Tyrrell County will consider the development of a zoning ordinance subsequent to the certification of this land use plan by the CRC. Schedule: Continuing Activity.
- I.9 Tyrrell County and the Town of Columbia will permit residential development to occur in response to market needs provided that the following criteria are met:
- (1) Due respect is offered to all aspects of the environment.
 - (2) If deficient community facilities and services are identified, the county should attempt to improve such to the point of adequately meeting demands (see infrastructure carrying capacity policies).
 - (3) Additional residential development should concurrently involve planning for improvements to community facilities and services if excess capacity does not exist within those facilities and services.
 - (4) Residential development is consistent with other Tyrrell County and Town of Columbia policies and the land use map as contained in this plan update.

This implementing action will be enforced through the Tyrrell County subdivision ordinance and the Town of Columbia zoning and subdivision ordinances. Schedule: Continuing Activity.

- I.10 The county will consider revisions to its subdivision regulations for non-residential sites to ensure adequate buffering and landscaping to separate residential and incompatible non-residential uses, and adequate regulation of off-site lighting, hours of operation, and vehicular driveway locations. This includes buffering between residential development and agricultural operations. The county will also strongly

consider establishing strong language relating to this requirement within the context of a potential zoning ordinance. Schedule: Fiscal Year 2009-2010.

- I.11 The county will require through subdivision regulation an interior road system that provides vehicular access to lots abutting major thoroughfares. The County will consider reviewing existing design standards to ensure effective limitation of driveway entrances. Schedule: Continuing Activity.
- I.12 The Town of Columbia will regulate through its zoning and subdivision ordinance the development of conflicting land uses within the town's planning jurisdiction. Schedule: Continuing Activity.
- I.13 The county will consider the merits of establishing a minimum housing code to ensure that all occupied structures are fit for human habitation. Schedule: Fiscal Year 2009-2010.
- I.14 Tyrrell County and the Town of Columbia will pursue Community Development, North Carolina Housing Finance Agency, and United States Department of Agriculture funds from state and federal sources for rehabilitation or redevelopment of substandard housing. Schedule: Review Annually.

Policies - Commercial/Industrial:

- P.18 Tyrrell County supports commercial development within areas defined as rural mixed use nodes on the future land use map (i.e., in a nodal fashion).
- P.19 The county supports properly permitted mining activities within its borders. The county will continue to rely on state resources to permit and oversee these operations.
- P.20 Tyrrell County and the Town of Columbia deem industrial development within fragile areas and areas with low land suitability acceptable only if the following conditions are met:
 - (1) CAMA minor or major permits can be obtained.
 - (2) Applicable town and/or county land development regulations are met.
 - (3) Within coastal wetlands, estuarine waters, and public trust waters, no industrial use will be permitted unless such use is water related.

This policy applies to both new industrial development and to expansion of existing industrial facilities.

- P.21 Tyrrell County opposes the establishment of private solid waste/landfill sites in the county.
- P.22 Tyrrell County and the Town of Columbia support the recruitment and siting of environmentally compatible light industrial and commercial establishments within its borders in areas that are already similarly developed or are zoned to concentrate such activity into commercial/industrial zones. The county also supports the Northeastern North Carolina Economic Development Commission in its efforts to promote economic development in the county and region. The county does not encourage the conversion of prime farmland to residential use.
- P.23 The Town of Columbia supports the repair, reconstruction, and reuse of privately-owned business/commercial buildings through private funds and/or grants.
- P.24 Tyrrell County and the Town of Columbia support industrial development which is located adjacent to and/or with direct access to major thoroughfares.
- P.25 Tyrrell County and the Town of Columbia support the development of industrial sites that are accessible to the town or county water and sewer services.
- P.26 Industries which are noxious by reason of the emission of smoke, dust, glare, noise, odor, and vibrations, and those which deal primarily in hazardous products such as explosives, should not be located in Tyrrell County or the Town of Columbia.
- P.27 Industry should be located in conformance with the county's land use plan. This includes placing emphasis on light industrial development.
- P.28 Tyrrell County supports the establishment and operation of eco-tourism operations within Areas of Environmental Concern. All proposed operations should comply with CAMA regulations outlined under 15A NCAC 7H.
- P.29 Tyrrell County and the Town of Columbia support an increase in the number of restaurants, lodging, and commercial establishments in an effort to support the population increase throughout the planning period. Additionally, increased commercial and industrial operations will create jobs for existing and future county residents.
- P.30 Tyrrell County supports the establishment of aquaculture operations within the county.
- P.31 The Town of Columbia supports state and local incentives to encourage desirable business development within the town and its ETJ.

- P.32 The Town of Columbia supports the use of state grants that encourage entrepreneurial development, or expansion of existing successful businesses.

Implementing Actions - Commercial/Industrial:

- I.15 Tyrrell County will pursue all grant funding opportunities available to assist in enhancing the eco-tourism industry within the county. Schedule: Review Annually.
- I.16 The county will enforce its subdivision regulations and rely on state permitting agencies to regulate mining activities. The county will take a more active stance regarding the State permitting authorities and their oversight of mining/heavy industrial activities by communicating grievances to the appropriate State agencies and officials. Schedule: Continuing Activity.
- I.17 The Town of Columbia will rely on its zoning ordinance in zoned areas and the CAMA permitting program with regard to new industrial development and expansion of existing industrial facilities. Schedule: Continuing Activity.
- I.18 Tyrrell County and the Town of Columbia will review their respective zoning and subdivision ordinances to ensure compliance with policies P.18 and P.20 through P.27. Schedule: Fiscal Year 2010-2011.
- I.19 Tyrrell County will work in conjunction with the Town of Columbia to discuss the option of developing an industrial park. Establishment of this facility will require resources from both the town and county. Schedule: Fiscal Years 2009-2015.

Policies - Conservation:

- P.33 Except as otherwise permitted in this plan, residential, commercial, and industrial development should not be supported in natural heritage areas or coastal wetlands. Residential, commercial, and industrial development which meets 15A NCAC 7H use standards will be allowed in estuarine shoreline, estuarine water, and public trust areas. In all other areas, development will be allowed that is consistent with applicable local, state, and federal regulations.
- P.34 Tyrrell County will support larger lots in conservation classified areas through enforcement of the County's subdivision ordinance.
- P.35 Tyrrell County supports the maintenance of its rural atmosphere through enforcement of the county subdivision regulations.

- P.36 The county recognizes that maintaining the environmentally sensitive nature of the county is vital to the future of the county's economy. The county will establish development regulations aimed at protecting environmentally sensitive portions of the county through the development of a county-wide zoning ordinance.
- P.37 Tyrrell County and the Town of Columbia reserves the right to object to amendments and/or changes to the guidelines of the Coastal Area Management Act (CAMA) and the efforts and programs of the North Carolina Department of Environment and Natural Resources, Division of Coastal Management and the Coastal Resources Commission to protect the ocean, coastal wetlands, estuarine waters, estuarine shorelines, and public trust waters of Tyrrell County.
- P.38 All development should be designed to protect Protected Lands and Significant Natural Heritage Areas (see Sections V.B of this plan).
- P.39 Tyrrell County generally supports the efforts and programs of state and federal agencies with jurisdiction to regulate the upland excavation of land for marina basins but reserves the right to object to amendments and/or changes to regulations and/or programs.
- P.40 Tyrrell County generally supports the efforts of state and federal agencies with regulatory authority to monitor and regulate development in areas susceptible to sea level rise and wetland loss, but reserves the right to object to amendments and/or changes to regulations and/or programs.

Implementing Actions - Conservation:

- I.20 Tyrrell County will consider the development of a county-wide zoning ordinance to ensure compliance with policies P.33 and P.36. The Town of Columbia will review its existing zoning ordinance for compliance with these policies. Schedule: Fiscal Year 2009-2011.
- I.21 Tyrrell County will coordinate all housing code enforcement/redevelopment project/public works projects with the NC Division of Archives and History to ensure the preservation and identification of significant historic structures and archaeological sites. Schedule: Continuing Activity.
- I.22 In order to protect property and ensure public safety, Tyrrell County will implement the following:
- Continue to enforce its Flood Damage Prevention Ordinance.
 - Implement its Storm Hazard Mitigation Plan, as necessary.

- Continue to coordinate development within special flood hazard areas with the County's Building Inspections Department, North Carolina Division of Coastal Management, Federal Emergency Management Agency, and the US Army Corps of Engineers.
 - Participate in the Federal Flood Insurance Program.
Schedule: Continuing Activities.
- I.23 Tyrrell County and the Town of Columbia will rely on the NC Department of Environment and Natural Resources, Division of Coastal Management to regulate development through the CAMA permitting process. Also, it will rely on the regulations of other state and federal agencies with regulatory authority, as well as existing local development regulations, to mitigate threats to AECs. Schedule: Continuing Activity.
- I.24 Tyrrell County will rely on the US Army Corps of Engineers to monitor development proposals for compliance with Section 404 of the Clean Water Act and will continue to enforce local land use ordinances. Schedule: Continuing Activity.
- I.25 In order to monitor possible sea level rise, Tyrrell County will implement the following:
- Rely on the NC Department of Environment and Natural Resources, Division of Coastal Management to monitor and regulate development in areas susceptible to sea level rise and wetlands loss.
 - Rely on state and federal agencies to monitor the effects of sea level rise and cooperate with local, state, and federal efforts to inform the public of the anticipated effects of sea level rise.
 - Consider updates or amendments to its land use plan policies as necessary to protect the county's public and private properties from rising water levels.
 - Support bulkheading to protect its shoreline areas from intruding water resulting from rising sea levels.
 - Consider establishing setback standards, density controls, bulkhead restrictions, buffer vegetation protection requirements, and building designs through the Building Code, County Subdivision Regulations, and Town of Columbia Zoning Regulations, which will facilitate the movement of structures, if necessary.
Schedule: Continuing Activities.

- I.26 Any adopted Tyrrell County zoning ordinances will regulate construction of marinas. Schedule: Fiscal Years 2009-2011.

Policies - Stormwater Control:

- P.41 Tyrrell County and the Town of Columbia supports reducing soil erosion, runoff, and sedimentation to minimize the adverse effects on surface and subsurface water quality.
- P.42 Tyrrell County recognizes the value of water quality maintenance and supports the protection of fragile areas and the provision of clean water for recreational purposes.
- P.43 The county supports the enforcement of all controls and regulations, specifically design standards, tie-down requirements, construction and installation standards, elevation requirements, flood-proofing, CAMA regulations, and FEMA regulations, deemed necessary by the Board of Commissioners to mitigate the risks of lives and property caused by severe storms and hurricanes.
- P.44 Tyrrell County supports implementation of the Pasquotank River Basinwide Water Quality Plans (see Section V.B.3, page 50).
- P.45 Tyrrell County and the Town of Columbia support requiring developers to address stormwater management to comply with NC Department of Environment and Natural Resources Coastal Stormwater Regulations.
- P.46 Tyrrell County supports the development of a comprehensive long range plan to address the issue of cleaning out the arterial canals located throughout the county in an effort to improve stormwater drainage throughout the County.

Implementing Actions - Stormwater Control:

- I.27 Tyrrell County will consider adopting and enforcing a soil erosion and sediment control ordinance for development sites less than one acre. The County will continue to rely on NCDENR for enforcement of sedimentation and erosion control measures on developments greater than one acre. The Town of Columbia will consider adopting more stringent standards relating to this issue into the Town's existing subdivision ordinance. Schedule: Fiscal Year 2010-2011.
- I.28 Tyrrell County will seek funding and technical assistance to study the effect of mosquito and other man-made ditches on the estuarine system. Effective mosquito control is essential to the health and welfare of Tyrrell County. Schedule: Review Annually.

- I.29 Tyrrell County will support control of agricultural runoff through implementation of Natural Resources Conservation Service Agricultural Best Management Practices program (see Appendix IV). Schedule: Continuing Activity.
- I.30 Tyrrell County, in conjunction with the Town of Columbia, will seek funding and technical assistance to prepare a county-wide master drainage plan and develop a stormwater management plan and ordinance to aid in eliminating standing water, and to require that all development address stormwater management. This should include a water quality component. Additionally, this plan should address a comprehensive strategy for the clean out of the county's arterial canal system. Schedule: Fiscal Year 2010-2012.
- I.31 Tyrrell County and the Town of Columbia will support control of forestry runoff through implementation of Forestry Best Management Practices as provided by the North Carolina Division of Forest Resources (see Appendix IV). Schedule: Continuing Activity.
- I.32 The Town of Columbia will consider adopting a landscaping ordinance to require that a buffer of trees/vegetation be left between rights-of-way and any clear cut areas be consistent with applicable state and federal regulations. Additionally, this ordinance will aim to increase the aesthetic quality of entry corridors and the town's main thoroughfares as redevelopment occurs. Schedule: Fiscal Year 2010-2011.
- I.33 Tyrrell County and the Town of Columbia will consider adopting and enforcing a stormwater control ordinance which should include regulations for water detention and/or retention facilities in new developments and provide regulations to control the amount of impervious surface in a development. Schedule: Fiscal Year 2009-2011.
- I.34 Tyrrell County and the Town of Columbia will implement a public education campaign regarding the impacts of stormwater runoff and methods of reducing stormwater runoff pollution, particularly among the County's farmers and animal operation managers. Schedule: Fiscal Year 2010-2012.

E. Infrastructure Carrying Capacity

1. Management Goal

Tyrrell County and the Town of Columbia will ensure that public infrastructure systems are appropriately sized, located, and managed so the quality and productivity of AECs and other fragile areas are protected or restored. It is acknowledged that to achieve the infrastructure carrying

capacity goals, policies, and implementing actions, some utility lines may have to extend through some environmentally sensitive areas.

2. Planning Objective

Tyrrell County and the Town of Columbia will establish level of service policies and criteria for infrastructure consistent with the projections of future land needs.

3. Land Use Plan Requirements

The following are Tyrrell County and the Town of Columbia's policies for infrastructure carrying capacity. All policies are continuing activities.

Policies - Water/Sewer Infrastructure:

- P.47 Tyrrell County and the Town of Columbia support providing adequate community services and facilities which meet the needs of Tyrrell County and Columbia's citizens, businesses, and industries.
- P.48 Tyrrell County and the Town of Columbia support providing sufficient water and sewer service to promote economic development and to alleviate public health problems created by the absence of public water and sewer services including degradation of water quality.
- P.49 The county supports directing more intensive land uses to areas that have existing or planned infrastructure, as indicated on the future land use map.
- P.50 The county supports the extension of water services from existing systems and encourages the use of central services for new developments whether residential, commercial, or industrial in nature. It also supports the continued public provision of solid waste disposal, law enforcement, and educational services to all citizens of the county, as well as the Town of Columbia.
- P.51 The county supports the installation and use of properly permitted septic tank systems and the enforcement of District Health Department regulations and local development regulations regarding lot sizes and waste disposal system placement. The county will also encourage the North Carolina Department of Environment and Natural Resources to investigate the feasibility of using alternative waste processing systems such as flushless toilets, incineration, and artificial wetlands in areas with severe soil limitations.

- P.52 The county supports the use of properly permitted and maintained package sewage treatment plants within its borders but outside of proposed sewer service areas. Package sewer treatment plants will only be allowed in developments which have been approved by the county. If any package treatment plants are approved, the county supports requirement of a specific contingency plan specifying how ongoing private operation and maintenance of the plant will be provided, and detailing provisions for assumption of the plant into a public system should the private operation fail.
- P.53 The county will support investigations by the District Health Department and North Carolina State University concerning the use of package treatment plants as a method of solving some of the severe sewage disposal problems in portions of the county.
- P.54 Tyrrell County and the Town of Columbia support providing water and sewer services to industrial areas, as required, when county resources are sufficient, in order to encourage industrial development. It should be noted that this policy applies to future industrial growth.
- P.55 Tyrrell County supports all efforts to secure available state and federal funding for the construction and/or expansion of public and private sewer systems.
- P.56 In concert with this Land Use Plan, Tyrrell County and the Town of Columbia support the master sewer plan in an effort to accommodate growth within the Scuppernong Township.
- P.57 The County supports the provision of public recreational facilities and areas and will pursue grant funds for county-owned and operated recreation facilities.
- P.58 Tyrrell County supports the ongoing agreement between the Town of Creswell and the County with regards to providing wastewater treatment plant capacity required to accommodate demand for the ongoing Phase I and Phase II central sewer system installation.
- P.59 It is the policy of Tyrrell County and the Town of Columbia that all infrastructure improvements be designed and installed to have a minimal impact on Areas of Environmental Concern.

Implementing Actions - Water/Sewer Infrastructure:

- I.35 Tyrrell County will continue to implement the current central sewer master plan, which involves county sewer lines being extending to a majority of buildable property located within the Scuppernong Township. Schedule: Fiscal Year 2007-2010.
- I.36 Malfunctioning septic tanks will be inspected by the Martin-Tyrrell-Washington District Health Department and corrective action recommended for implementation by the owner. Schedule: Continuing Activity.
- I.37 Tyrrell County and the Town of Columbia will amend the future land use map, when needed, to reflect the county's water and sewer extension projects as they are planned. Schedule: Continuing Activity.
- I.38 Tyrrell County will identify and contact state and federal agencies that provide typical and non-typical funding sources for assistance in providing central sewer. Schedule: Review Annually.
- I.39 Tyrrell County and the Town of Columbia will consult the future land use map when considering new public facilities and private development. Schedule: Continuing Activity.
- I.40 Tyrrell County and the Town of Columbia will consider revising water and sewer extension policies to ensure that public/private cooperation in the provision of infrastructure to serve new development is encouraged. Schedule: Fiscal Year 2009-2010.
- I.41 The county will rely on the Division of Environmental Management in conjunction with the Martin-Tyrrell-Washington District Health Department to oversee the operation and management of all package treatment plants in the county. Schedule: Continuing Activity.
- I.42 The county will consider adopting an operating and capital financing plan for the development of water and sewer systems outside of existing proposed water and sewer service areas. Schedule: Fiscal Year 2009-2011.
- I.43 The County will provide sufficient emergency management personnel and facilities to adequately serve the projected population growth. Schedule: Continuing Activity.
- I.44 The county will coordinate the development of recreational facilities with the school system. Schedule: Continuing Activity.

- I.45 Tyrrell County will encourage cable television service provider(s) to provide facilities and service to ensure affordable, adequate, and dependable cable television and high speed internet services to the citizens of the County. Schedule: Continuing Activity.
- I.46 Tyrrell County will encourage electrical service provider(s) to provide facilities and services to ensure adequate supplies of uninterruptible electric power to the citizens of the County. Schedule: Continuing Activity.

Policies – Transportation:

- P.60 Tyrrell County and the Town of Columbia support interconnected street systems for residential and non-residential development.
- P.61 The county and the Town of Columbia support limited access from development along all roads and highways to provide safe ingress and egress. This policy is aimed at reducing curb cuts and promoting cross-access between properties.
- P.62 Tyrrell County and the Town of Columbia support subdivision development which utilizes the North Carolina Department of Transportation Traditional Neighborhood Development Street Design Guidelines. A Traditional Neighborhood Development (TND) is a human scale, walkable community with moderate to high residential densities and a mixed use core. Compared with conventional suburban developments, TNDs have a higher potential to increase modal split by encouraging and accommodating alternate transportation modes. TNDs also have a higher potential for capturing internal trips, thus reducing vehicle miles traveled. (see Appendix V).
- P.63 Tyrrell County and the Town of Columbia specifically supports the following future transportation improvement projects:

Bridge Projects

ID No.	(Location) Description	Schedule (Fiscal Year)
B-4647	(NC 94) Northwest Fork. Replace Bridge No. 6	Right-of-way FY10 Mitigation FY10 Construction FY11

Road Projects

ID No.	(Location) Description	Schedule (Fiscal Year)
R-2545	(US 64) East of Columbia to east of the Alligator River. Widen to multi-lanes. 15.6 miles	Planning/Design-In Progress Mitigation FY12
	AA - East of Columbia to SR 1229 (Old US 64) at Alligator River.	Right-of-way FY12 Construction Unfunded
	AB - SR 1229 (Old US 64) at Alligator River to west of Alligator River.	Right-of-way FY12 Construction Unfunded
	B - West of Alligator River to east of Alligator River	Right-of-way FY12 Construction FY12

- P.64 The town and county support the expansion of US Highway 64 to four lanes.
- P.65 The county supports maintaining an effective signage and addressing system for all streets, roads, and highways.
- P.66 The county supports state and federal funding for maintenance/dredging of major watercourses adjacent to the counties borders.

Implementing Actions - Transportation:

- I.47 Tyrrell County and the Town of Columbia will require, where reasonably possible, the use of frontage roads in non-residential development along federal and state major highways. The County and Town will consider revising their respective subdivision regulations in order to comply with this policy. Schedule: Fiscal Year 2009-2010.
- I.48 Tyrrell County and the Town of Columbia will establish a requirement for reverse frontage lots within subdivisions to orient lots towards internal subdivision streets, not secondary roads and highways. Schedule: Fiscal Year 2009-2010.
- I.49 Tyrrell County and the Town of Columbia will require the construction of acceleration/deceleration lanes for the entrances to major commercial and residential developments. This should be accomplished through revisions to the town and county's subdivision ordinances. Schedule: Fiscal Year 2009-2010.
- I.50 Tyrrell County and the Town of Columbia will consider establishing traffic impact studies for large scale residential and mixed use developments. This requirement will be based on recommendation by each jurisdiction's Planning Board. Schedule: Fiscal Year 2010-2011.

- I.51 Tyrrell County and the Town of Columbia will solicit local civic organizations to commit to the beautification of selected areas which will require initial labor for construction/planting and long-term regular maintenance. Schedule: Continuing Activity.
- I.52 Tyrrell County will request that the NCDOT Division of Highways implement its wildflower research project and the Adopt-a-Highway program along US 64. Schedule: Continuing Activity.

F. Natural Hazard Areas

1. Management Goal

Tyrrell County and the Town of Columbia will conserve and maintain shorelines, floodplains, and other coastal features for their natural storm protection functions and their natural resources giving recognition to public health, safety, and welfare issues.

2. Planning Objective

Tyrrell County and the Town of Columbia will develop policies that minimize threats to life, property, and natural resources resulting from development located in or adjacent to hazard areas, such as those subject to erosion, high winds, storm surge, flooding, or sea level rise.

3. Land Use Plan Requirements

The following are Tyrrell County and the Town of Columbia's policies/implementing actions for natural hazard areas. All policies are continuing activities.

Policies:

- P.67 Tyrrell County and the Town of Columbia support efforts to control estuarine shoreline erosion. Where possible, land owners are encouraged to use structures that will preserve wetlands and fisheries habitat and protect water quality. Such structures include living shorelines and plantings using native wetland species. Bulkheads are allowed; the use of innovative techniques is encouraged.
- P.68 Tyrrell County and the Town of Columbia support the US Army Corps of Engineers' regulations and the applicable guidelines of the Coastal Area Management Act and the use of local land use ordinances to regulate development of freshwater swamps, marshes, and 404 wetlands.

- P.69 Tyrrell County and the Town of Columbia recognize the uncertainties associated with sea level rise. The rate of rise is difficult to predict. Thus, it is difficult to establish policies to deal with the effects of sea level rise. Tyrrell County and the Town of Columbia support cooperation with local, state, and federal efforts to inform the public of the anticipated effects of sea level rise.
- P.70 Tyrrell County and the Town of Columbia support hazard mitigation planning. The mitigation strategies and policies contained in the Tyrrell County Multi-Jurisdictional Hazard Mitigation, adopted in February 2005, are included as Appendix VI to this plan, and are incorporated herein by reference.
- P.71 Tyrrell County and the Town of Columbia support the land use densities that are specified on the future land use map of this plan. These densities will minimize damage from natural hazards and support the hazard mitigation plan.

Implementing Actions:

- I.53 Tyrrell County and the Town of Columbia will continue to enforce its Floodplain Ordinance and participate in the National Flood Insurance Program. It will rely on the North Carolina Department of Environment and Natural Resources, Division of Coastal Management to monitor and regulate development in areas up to five feet above mean high water susceptible to sea level rise and wetland loss. Subdivision regulations will be enforced requiring elevation monuments to be set so that floodplain elevations can be more easily determined. Schedule: Continuing Activity.
- I.54 The county will monitor development proposals for compliance with Section 404 of the Clean Water Act and will continue to enforce local land use ordinances to regulate development of freshwater swamps, marshes, and 404 wetlands. Schedule: Continuing Activity.
- I.55 Tyrrell County and the Town of Columbia permit redevelopment of previously developed areas, provided all applicable policies, regulations, and ordinances are complied with. The county and town will encourage redevelopment as a means for correcting housing problems, upgrading commercial structures, and historic preservation (through rehabilitation and adaptive reuse). Redevelopment, including infrastructure, should be designed to withstand natural hazards. Schedule: Continuing Activity.
- I.56 In response to possible sea level rise, Tyrrell County and the Town of Columbia will review all local building and land use related ordinances and consider establishing setback standards, density controls, bulkhead restrictions, buffer vegetation

protection requirements, and building designs which will facilitate the movement of structures. Schedule: Continuing Activity.

- I.57 Tyrrell County and the Town of Columbia will use the future land use maps to control development. These maps are coordinated with the land suitability map and proposed infrastructure maps. Schedule: Continuing Activity.

G. Water Quality

1. Management Goal

Tyrrell County and the Town of Columbia will maintain, protect, and where possible enhance water quality in all coastal wetlands, rivers, streams, and estuaries. This should include a means of addressing the complex problems of planning for increased development and economic growth while protecting and/or restoring the quality and intended uses of the basin's surface waters.

2. Planning Objective

Tyrrell County and the Town of Columbia will adopt policies for coastal waters within Tyrrell County to help ensure that water quality is maintained (if not impaired) and improved (if impaired).

3. Land Use Plan Requirements

The following provides Tyrrell County and the Town of Columbia's policies/implementing actions on water quality.

Policies:

- P.72 Tyrrell County and the Town of Columbia support the guidelines of the Coastal Area Management Act and the efforts and programs of the North Carolina Department of Environment and Natural Resources, Division of Coastal Management and the Coastal Resources Commission to protect the coastal wetlands, estuarine waters, estuarine shorelines, and public trust waters of Tyrrell County and the Town of Columbia. It also supports the use of best management practices recommendations of the United States Soil Conservation Service for both agricultural and forestry areas.
- P.73 Tyrrell County and the Town of Columbia support conserving its surface groundwater resources.

- P.74 The county and the town support commercial and recreational fishing in its waters and will cooperate with other local governments and state and federal agencies to control pollution of these waters to improve conditions so that commercial and recreational fishing will increase.
- P.75 The county supports the reforestation of clear cut timber lands and the use of forestry best management practices.
- P.76 Tyrrell County and the Town of Columbia oppose the disposal of any toxic wastes, as defined by the US Environmental Protection Agency's Listing of Hazardous Substances and Priority Pollutants (developed pursuant to the Clean Water Act of 1977), within its planning jurisdiction.
- P.77 Tyrrell County and the Town of Columbia recognize the value of water quality maintenance to the protection of fragile areas and to the provision of clean water for recreational purposes and supports the control of stormwater runoff to aid in the preservation of water quality.
- P.78 Tyrrell County and the Town of Columbia support regulation of underground storage tanks in order to protect its groundwater resources.
- P.79 Tyrrell County and the Town of Columbia support the policy that all State of North Carolina projects should be designed to limit to the extent possible stormwater runoff into coastal waters.
- P.80 Tyrrell County and the Town of Columbia support implementation of the Pasquotank River Basin Water Quality Management Plan.
- P.81 The county supports protection of those waters known to be of the highest quality or supporting biological communities of special importance.
- P.82 Tyrrell County and the Town of Columbia oppose the installation of package treatment plants and septic tanks or discharge of waste in any areas classified as coastal wetlands, freshwater wetlands (404), or natural heritage areas. This policy does not apply to constructed wetlands.
- P.83 Tyrrell County and the Town of Columbia support all aquaculture activities which meet applicable federal, state, and local policies and permit requirements. However, Tyrrell County and the Town of Columbia reserve the right to comment on all aquaculture activities which require Division of Water Quality permitting.

- P.84 Tyrrell County and the Town of Columbia object to any discharge of water from aquaculture activities that will degrade in any way the receiving waters. The county objects to withdrawing water from aquifers or surface sources if such withdrawal will endanger water quality or water supply from the aquifers or surface sources.
- P.85 Tyrrell County and the Town of Columbia support only aquaculture activities which do not alter significantly and negatively the natural environment or coastal wetlands, estuarine waters, and public trust areas.
- P.86 Tyrrell County and the Town of Columbia do not support the location of floating homes within its jurisdiction.
- P.87 Tyrrell County and the Town of Columbia support and will continue to enforce the policies of the NC Department of Environment and Natural Resources Coastal Stormwater Rules.
- P.88 It is the policy of Tyrrell County and the Town of Columbia to protect and/or repair closed and conditionally closed shellfishing beds, where feasible. The county and the town will rely on outside resources to achieve this effort.

Implementing Actions:

- I.58 The county will comply with CAMA and NC Division of Environmental Management stormwater runoff regulations, and by coordinating local development activities involving chemical storage or underground storage tank installation/abandonment with Tyrrell County Emergency Management personnel and the Groundwater Section of the North Carolina Division of Environmental Management. The county will plan for an adequate long-range water supply. In the planning process, Tyrrell County and the Town of Columbia will cooperate with adjacent counties to protect water resources. Schedule: Continuing Activity.
- I.59 The County will enforce its subdivision regulations to aid in protecting sensitive shoreline areas. It will rely on state and federal agencies to promote and protect the Palmetto-Pear Tree Preserve, the Pocosin Lakes National Wildlife Refuge, and the Pettigrew State Park, as well as other nursery areas, habitat areas, and coastal reserves. Schedule: Continuing Activity.
- I.60 Tyrrell County and the Town of Columbia will rely on the technical requirements and state program approval for underground storage tanks (40 CFR, Parts 280 and 281), and any subsequent state regulations concerning underground storage tanks adopted during the planning period. Schedule: Continuing Activity.

I.61 Tyrrell County and the Town of Columbia will continuously enforce, through the development permitting process, all current regulations of the NC State Building Code and North Carolina Division of Health Services relating to building construction and septic tank installation/replacement in areas with soils restrictions. Schedule: Continuing Activity.

I.62 Tyrrell County and the Town of Columbia will implement the following actions through local ordinances to improve water quality.

- Use watershed-based land use planning
- Protect sensitive natural areas, including coastal wetlands
- Establish buffer network
- Minimize impervious cover in site design
- Limit erosion during construction
- Maintain coastal growth measures
- Restoration of impaired waters
- Management of the cause and sources of pollution to ensure the protection of those waters currently supporting their uses allowing for reasonable economic growth.
- Reduction of nutrients in Tyrrell County waters.
Schedule: Review local ordinances annually.

I.63 Preservation of wetlands is important to the protection/improvement of water quality in Tyrrell County. The following will be implemented:

- Consider preservation of large wetland areas (> one acre) in a natural state to protect their environmental value. Schedule: Continuing Activity.
- Coordinate all development review with the appropriate office of the US Army Corps of Engineers and the Soil Conservation Service. Schedule: Continuing Activity.
- Require that wetland areas be surveyed and delineated on all preliminary and final subdivision plats. Schedule: Fiscal Year 2009-2011.
- Encourage cluster development in order to protect sensitive natural areas. Schedule: Fiscal Year 2009-2011, revision to subdivision ordinances.
- Make wetlands acquisition a priority in future expansions of Tyrrell County and Town of Columbia parks and recreation areas. Schedule: Continuing Activity.

I.64 Tyrrell County will regulate the location of aquaculture activities through the potential development of a county-wide zoning ordinance. Schedule: Fiscal Year 2009-2011.

I.65 The Town of Columbia will develop a local ordinance and a waterfront development plan to regulate the development of mooring fields. Schedule: Fiscal Year 2010-2011.

H. Local Areas of Concern

1. Management Goal

Tyrrell County and the Town of Columbia will integrate local concerns with the overall goals of CAMA in the context of land use planning.

2. Planning Objective

Tyrrell County and the Town of Columbia will identify and address local concerns and issues, such as cultural and historic areas, scenic areas, economic development, or general health and human services needs.

3. Land Use Plan Requirements

The following provides Tyrrell County and the Town of Columbia's policies/implementing actions on local areas of concern. All policies are continuing activities.

Policies - Cultural, Historic, and Scenic Areas:

P.89 The county supports local, state, and federal efforts to protect historic properties within its borders and to perpetuate its cultural heritage.

P.90 Tyrrell County and the Town of Columbia supports protection and preservation of all protected natural areas which have both historic and environmental significance.

Implementing Actions - Cultural, Historic, and Scenic Areas:

I.66 Tyrrell County and the Town of Columbia will guide development so as to protect historic and potentially historic properties in the county and to perpetuate the county's cultural heritage. Schedule: Continuing Activity.

- I.67 Tyrrell County and the Town of Columbia shall coordinate all housing code enforcement/redevelopment projects with the NC Division of Archives and History, to ensure that any significant architectural details or buildings are identified and preserved. Schedule: Continuing Activity.
- I.68 Tyrrell County and the Town of Columbia will coordinate all county public works projects with the NC Division of Archives and History, to ensure the identification and preservation of significant archaeological sites. Schedule: Continuing Activity.

Policies - Economic Development:

- P.91 Tourism is important to Tyrrell County and the Town of Columbia and will be supported by the county and town.
- P.92 The county will encourage development in Tyrrell County and the Town of Columbia to protect the county's resources, preserve its rural atmosphere, and simultaneously promote industrial and retail growth.
- P.93 The county will encourage industrial and commercial development in areas with existing infrastructure that does not infringe on existing medium density residential areas.
- P.94 Tyrrell County and the Town of Columbia support the extension of water services from existing systems and encourages the use of central services for new developments whether residential, commercial, or industrial in nature.
- P.95 The county supports the location of staging areas and support facilities for energy related activities, particularly exploration.

Implementing Actions - Economic Development:

- I.69 Tyrrell County and the Town of Columbia will continue to support the activities of the North Carolina Division of Travel and Tourism; specifically, the monitoring of tourism-related industry, efforts to promote tourism-related commercial activity, and efforts to enhance and provide shoreline resources. Schedule: Continuing Activity.
- I.70 Tyrrell County and the Town of Columbia will continue to support the activities of the Partnership For The Sounds in their efforts to promote tourism and protect the sensitive eco-system within the county. Schedule: Continuing Activity.
- I.71 Tyrrell County and the Town of Columbia will support projects that will increase public access to shoreline areas. Schedule: Continuing Activity.

- I.72 Tyrrell County and the Town of Columbia will support North Carolina Department of Transportation projects to improve access to and within the county. Schedule: Continuing Activity.
- I.73 Tyrrell County and the Town of Columbia will support the following in the pursuit of industrial development:
- Encourage placement of new industrial development to have minimum adverse effect on the county's ecosystem and by encouraging areas of concentrations of such uses be considered first when suitable infrastructure is available consistent with the growth policy of the future land development map. Schedule: Continuing Activity.
 - The Town of Columbia will re-zone additional parcels for industrial and commercial use along existing growth corridors with adequate infrastructure existing or planned and, when the need is demonstrated, provide a consistent growth policy with amendments to the future land development map when revision is needed. Schedule: Continuing Activity.

Policies - General Health and Human Services Needs:

- P.96 Tyrrell County and the Town of Columbia support the continued public provision of solid waste disposal, law enforcement, and educational services to all citizens of the county.
- P.97 Tyrrell County and the Town of Columbia oppose the establishment of military outlying landing fields (OLFs) within the coastal plain of eastern North Carolina. The county acknowledges that this policy is not enforceable; however, it is necessary to outline a position within the context of the land use plan.
- P.98 The county supports local, state, and federal efforts to minimize the adverse impact of man-made hazards within its borders. Tyrrell County and the Town of Columbia will use its development controls and will rely on state and federal agencies with jurisdiction to minimize the impact of man-made hazards.
- P.99 In an effort to improve health conditions, Tyrrell County and the Town of Columbia support the following water and sewer policies:
- Tyrrell County and the Town of Columbia support the extension of central water service into all areas of the county shown on the land suitability analysis map as suitable for development, including the construction of lines to and through conservation areas to serve development which meets all

applicable state and federal regulations. Construction of utility lines through conservation areas should only be permitted if no alternative exists. The location of utilities within defined conservation areas should not result in increased development potential.

- The county is aware that inappropriate land uses near well fields increase the possibility of well contamination. Land uses near groundwater sources are regulated by the North Carolina Division of Environmental Management through NCAC Subchapter 2L and Subchapter 2C. Tyrrell County and the Town of Columbia recognize the importance of protecting potable water supplies, and therefore support the enforcement of these regulations.
- Tyrrell County and the Town of Columbia support all efforts to secure available state and federal funding for the construction and/or expansion of public and private water/sewer systems.
- Tyrrell County and the Town of Columbia support the construction of water systems with adequate line sizes to ensure adequate water pressure and fire protection.
- Tyrrell County will continue to provide water services to county residents and will continue the process of studying the role of county government in providing sewage treatment facilities for rapidly growing areas of the county, including the construction of lines to and through conservation areas to serve development which meets all applicable state and federal regulations. The county will secure federal and state grants, when feasible, to help carry out this policy.

P.100 Tyrrell County opposes the location of US Army Corps of Engineers 404 wetland mitigation sites resulting from development outside of Tyrrell County. This policy is intended to protect the tax base of the County.

Implementing Actions - General Health and Human Services Needs:

- I.74 The county will investigate, with the Institute of Government, the use of impact fees as a way of making new development pay for the services demanded. Schedule: Fiscal Year 2009-2011.
- I.75 The county will seek educational grants to subsidize continuing education at nearby colleges and universities and support community education programs. Schedule: Review Annually.

- I.76 Floodplain regulation is a concern in Tyrrell County and the Town of Columbia. To accomplish protection of public health and service needs, Tyrrell County and the Town of Columbia will:
- Continue to enforce the flood hazard reduction provisions of the Tyrrell County and Town of Columbia Land Development Ordinances.
 - Prohibit the installation of underground storage tanks in the 100-year floodplain.
 - Prohibit the development of any industry within the 100-year floodplain that may pose a risk to public health and safety. Such industries may include but not be limited to: chemical refining and processing, petroleum refining and processing, hazardous material processing, or storage facilities.
Schedule: Continuing Activities.
- I.77 To effectively manage Tyrrell County and the Town of Columbia's investment in existing and proposed community facilities and services, the county will:
- Develop a specific capital improvements plan (CIP) with emphasis placed on services and facilities which affect growth and development. Schedule: Fiscal Year 2010-2012.
 - Provide the Tyrrell County Board of Education with locational information on all residential development. Schedule: Continuing Activity.
 - In concert with the Tyrrell County Board of Education, develop a plan for the protection of future school sites. Schedule: Fiscal Year 2010-2011.
- I.78 Tyrrell County and the Town of Columbia will provide sufficient emergency services to all residents. The county will implement the following:
- Require that all necessary infrastructure firefighting capability/capacity be provided in new subdivisions and developments. Schedule: Continuing Activity.
 - Continue to maintain an effective signage and addressing system for all streets, roads, and highways. Schedule: Continuing Activity.
- I.79 Tyrrell County will work with NC State Legislators to formulate local legislation to address the use of property located within Tyrrell County for 404 wetland mitigation sites for development occurring outside of the County, as long as there is a direct benefit to the taxpayers of Tyrrell County (jobs, spin off businesses, etc). Current

regulatory conditions continue to result in large tracts of land within the County being acquired for 404 mitigation. This action results in a direct reduction to County property tax revenues.

Implementing Actions - Funding Options:

I.80 Tyrrell County and the Town of Columbia will continue to support state and federal programs that are deemed necessary, cost-effective, and within the administrative and fiscal capabilities of Tyrrell County and the Town of Columbia. Schedule: Continuing Activity. These include:

- Community Development Block Grant Program
- Area Agency on Aging
- Emergency Medical Services
- JTPA Work Program
- Farmer's Home House Preservation Program
- Coastal Area Management Act, including shoreline access funds
- Small Business Association
- Economic Development Administration Funds
- Farmer's Home Administration Federal Grant Program
- Federal Emergency Management Program
- Aid to Families with Dependent Children
- MEDICAID
- Day Care
- Crisis Intervention
- Parks and Recreation Trust Fund (PARTF)

I.81 Tyrrell County and the Town of Columbia will selectively support state and federal programs related to Tyrrell County and the Town of Columbia. The town and county, through its boards, commissions, and committees, will monitor state and federal programs and regulations. It will use opportunities as they are presented to voice support for or to disagree with programs and regulations that are proposed by state and federal agencies. Schedule: Continuing Activity.

I.82 Tyrrell County and the Town of Columbia officials will continue to work with the Army Corps of Engineers and any other state and federal agencies to ensure continued dredging and maintenance of channels and rivers as needed to keep these facilities open to navigation. These efforts shall comply with applicable state and federal regulations. Providing borrow or spoil areas and provision of easements for work will be determined on case-by-case basis. The county would encourage spoil material being placed on those areas where easements for such use already exist. Channel maintenance has major economic significance and is worthy of state and federal funding. Schedule: Continuing Activity.