

CHAPTER 4¹ PUBLIC FACILITIES AND SERVICES

Planning
Commission
Approved
April 21, 2005
Revised Dec 15

A. INTRODUCTION

The first three chapters focus on developing a framework for future growth of Northumberland County. The first chapter examines physical and environmental conditions that influence or limit potential development. Chapter 2 identifies goals and strategies designed to deal with important issues that were defined by the physical analysis, demographic studies and input from the community. Chapter 3 is a core element of the Comprehensive Plan, the element that establishes a framework plan of future land use. The Land Use Plan is an instrument for guiding overall growth although its main focus is to establish County policies and guidelines for development that occurs through private investment.

The current chapter focuses on that phase of the plan which is primarily represented by public investment. Its focus is on the provision of public facilities and services. In combination, the Land Use Plan and the Public Facilities and Services elements comprise the nucleus of the Comprehensive Plan for Northumberland County as envisaged by the Virginia Statutes. Public services covered in this chapter are provided by a combination of state, county and private agencies. The level of detail for any one subject area is general because of a requirement of the Virginia Law which stipulates that the Comprehensive Plan

"... shall be general in nature, in that it shall designate the general or approximate location, character and extent of each feature shown on the plan ..."

The Public Facilities and Services Plan is intended to provide guidance to the County by enabling it to anticipate additional public services that will be needed in future years. To private as well as public agencies that operate separately from the County government, the plan will provide policies and guidance concerning the County's intent to provide services of a particular type.

B. HIGHWAYS

Northumberland County is served by a network of primary and secondary public roads that are maintained by the Virginia Department of Transportation. Route U.S. 360 is a federal primary road while all other public roads, primary and secondary, are state roads. Although there are a few residential streets that are privately owned, the State's policy is to operate and maintain the public road system within counties. This policy applies throughout the Commonwealth of Virginia. New secondary roads may be built as part of a private development and brought into the state system if they are planned and constructed to VDOT standards and meet the service requirements for state-maintained roads.

¹Filename is Chapter 4 PC Final Draft

While the State gives a high priority to traffic considerations when planning improvements to existing public roads, the County may influence the timing of improvements. Road widening, bridge replacements and other major improvements to the existing system may be offered as priorities of the County during periods when VDOT is preparing its plans for highway improvements.

Table 4.1 presents the year 2000 VDOT traffic counts for Route U.S. 360 and Route 200 and forecasts for 2020.

Table 4.1 Average Daily Traffic Volumes, Routes 360 and 200

From	To	2000	Forecast 2020	Number Of Lanes	Practical Capacity (vpd)	V/C Ratio
Route U.S. 360						
Northumberland/ Richmond CL	SR 202	4,900	7,300	4	32,000	0.23
SR 202	Route 614	7,700	11,400	2	12,000	0.95
Route 614	SR 201	6,200	9,200	4	40,000	0.23
SR 201	SR 200	4,400	6,500	2	12,000	0.54
SR 200	Route 646	4,700	7,000	4	40,000	0.18
Route 646	Route 657	3,900	5,800	4	40,000	0.15
Route 657	Route 644	940	1,400	2	12,000	0.12
Route 200						
US 360 Burgess PO	Route 609	4,200	6,200	2	12,000	0.52
Route 609	Northumberland/ Lancaster CL	4,200	6,200	2	12,000	0.52
Reference: NNPDC Transportation Corridor Protection Plan, Tables 1 and 3.						

These data show the only bottleneck in the County is in Callao although a similar situation exists in Heathsville at the intersection of Route 201 at the curve on Route U.S. 360. In both places the solutions are dependent upon VDOT. There are no current plans to bypass either village due to the low overall traffic volume.

The Board of Supervisors has concentrated on pressing VDOT to complete bringing Route U.S. 360 up to four lanes but that does not seem likely in the near future. There are no plans to address the bottlenecks until the four lane upgrade project is complete. There are two state plans for roads, one for the primary system and one for the secondary system. Each system has its own planning cycle and in order for the County to introduce its planning priorities it must do so at the proper time within each planning cycle.

Each year VDOT prepares its own capital improvements programs. One program is prepared for

improvements to primary highways and another for secondary roads. There is an opportunity for the County to express its priorities in each of these plans. Primary highways are planned and constructed through the District Engineer's Office. The County may make recommendations to the District Engineer at yearly hearings held for the purpose of discussing future improvements.

Improvements to secondary roads are handled by VDOT through a Six-Year Plan with local planning being coordinated through the Resident Engineer. The opportunity also exists for the County to make its priorities known when the Resident Engineer discusses planned secondary road improvements with the Board of Supervisors at a yearly meeting. By identifying its own roads that warrant improvement in the Comprehensive Plan, Northumberland County should be able to work many of its own priorities into the State's six-year plan for secondary roads.

This section of the comprehensive plan focuses on the potential need for improving a network of roads that best meets the circulation needs of different areas of the County.

1. Major Roads Identified

The clearest picture of which roads carry the predominant traffic in Northumberland County comes from an inspection of 24-hour traffic volumes. VDOT prepares traffic counts on most state roads on a continuing basis. Figure 4.1 illustrates graphically the amount of traffic currently (2003) on specific roads. This map shows by the width of the line roads that have more than 500 vehicles per 24 hours.

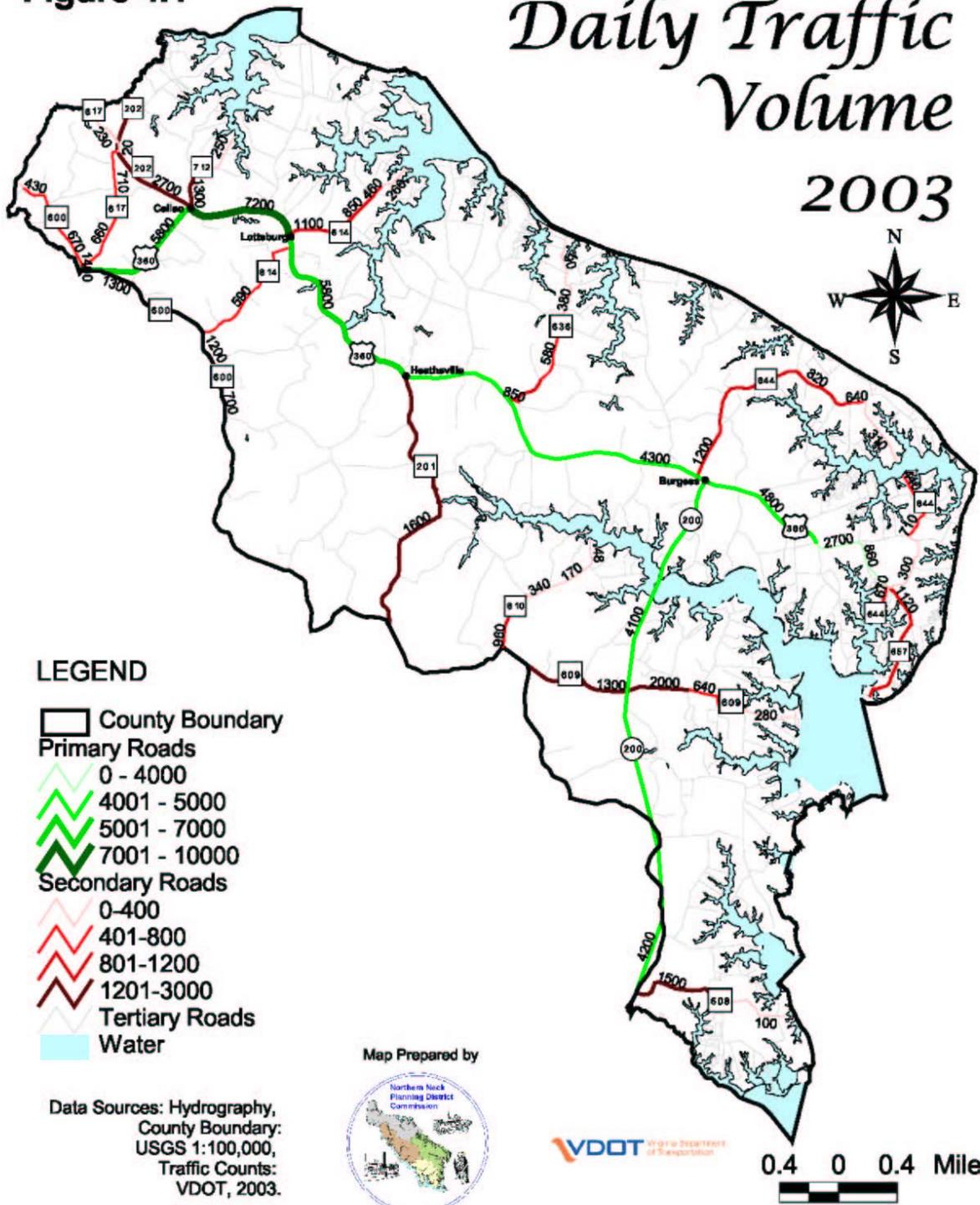
- Primary routes U.S. 360 and 200, both of which carry in excess of 4000 vehicles per day (VPD) form the central corridor of the County. Route 202 is also an important primary that connects Northumberland to Westmoreland County. These three primary roads not only provide primary circulation within the County's economic corridor but they also connect the County with Westmoreland, Richmond and Lancaster Counties.
- Secondary roads, shown on the map with traffic flow above 500 VPD, extend traffic service from the primary routes to areas with concentrations of residential development, farm or marine activities. Some observations are appropriate for specific roads.
- Route 201 has traffic volumes that are below that normally expected on a Primary Road, but instead carries traffic at about the same level as a secondary road. This is a reflection of its physical condition because the distance from Heathsville to Kilmarnock over the 201/3 combination is about the same as it is over U.S. 360 and 200. Traffic naturally follows the routes of better roads; therefore, the 360/200 combination from the central part of the County south to Kilmarnock is the preferred route.
- Route 617 from Hyacinth to Village appears to be a "shortcut" from Route 201 to 360. Drivers often select roads of less quality if they can gain a

substantial distance saving. That seems to be the case with this route.

- Most of the other roads with traffic above 500 VPD serve major areas of development or serve as corridors through rural areas. In general, these are the roads that are likely to continue to serve as feeder roads to developing areas and will warrant a higher priority for improvements.

Figure 4.1

Daily Traffic Volume 2003



2. General Road Plan

The General Road Plan for Northumberland County is presented on Figure 4.2..., The public roads in Northumberland County are classified and identified as follows:

This plan is part of the Comprehensive Plan and serves as a guide to the County for purposes of identifying the County's own priorities for road improvements in future years.

The plan includes identification of currently planned improvements by VDOT discussed below and recommendations from County residents. For purposes of this plan, public roads in Northumberland County are classified and identified as follows:

a. *Four-lane Primary*

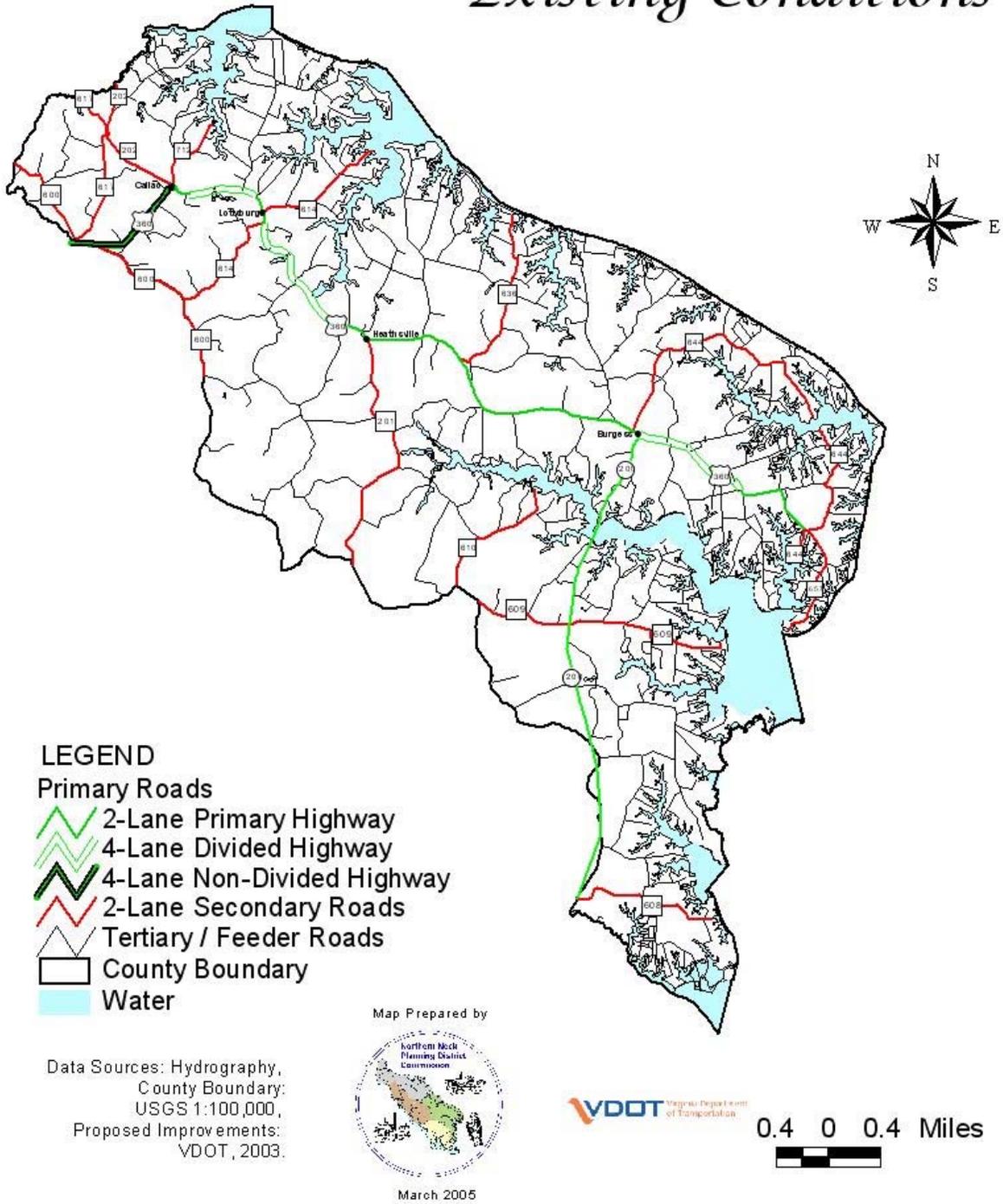
U.S. Highway 360: This is the central traffic corridor of the County which serves nearly all traffic moving into, through and out of the County. It now has four lanes except for the segments through Lottsburg, between Heathsville and Burgess and between Lilian and Reedville. The County's primary strategy for this road includes completion as a four-lane road in order to establish a safe and efficient traffic corridor through the entire County. The County plans to continue to request 4-laning in the Pre-allocation funding of VDOT.

Where 360 passes through villages, it is necessary to coordinate improvements with the local need for traffic management in order to minimize interference between local and through traffic. This is in particular a factor in Callao, Lottsburg and Heathsville where on-street parking competes with through traffic. Within the villages that have not yet developed to the extent of experiencing traffic and parking interference, this issue should be addressed by including off-street parking requirements in the zoning ordinance and coordinating access to parking areas through site plan review. See the Section on the Highway Corridor Overlay District in the Land Use Plan, Chapter 3.

Further improvement in the function and safety of this road may be accomplished by reducing the number of access points. This is also addressed in the Highway Corridor Overlay District in Chapter 3.

Figure 4.2

Existing Conditions



b. Two-lane Primaries

VA 200: This route links U.S. 360 at Burgess to Kilmarnock and from there via Route 3 to locations south of the Rappahannock River. It carries just slightly less traffic than U.S. 360 and serves as an extension of the central corridor that runs through the County. The 360/200 corridor serves all villages and constitutes an "economic corridor" within the County and also links the County with outside markets. Past improvements such as the improved bridge over the Great Wicomico River are consistent with the economic importance of Route 200. Accordingly, it warrants a major position in the comprehensive plan.

VA 202: This primary links Route U.S. 360 at Callao to Route 3 at Templeman. It is a more direct route to Northumberland County from the north and west than Route 3 via Warsaw and Kilmarnock. Yet it has been reported that traffic to Northumberland County from the west often uses the longer Route 3 via Warsaw rather than VA 202.

VA 201: This road, although classified as a primary, provides a much lower level of service than Routes 200 and 202. In terms of traffic using it and its alignment, 201 is more like a secondary road than a primary. Unless it is improved to standards similar to 200 or 202, the road will likely continue to serve at the level of a secondary feeder road. This plan continues to designate 201 as a primary, although the major priorities of the County may be better served by continuing to upgrade the corridor primaries.

c. Feeder Secondary Roads:

These are secondary roads that serve as feeder roads to developed areas and primary circulation throughout rural areas of the County. They are identified on the Highway Plan as feeder secondary roads and should be high on the VDOT list for maintenance and improvement.

3. Planned Highway Improvements by VDOT

The planned highway improvements are based on a six-year plan presented and updated annually by VDOT to the Board of Supervisors in November of each year.. Public input has been invited by VDOT at that time. This process should be improved to provide for more community input and therefore it is recommended that the Planning Commission hold a widely publicized public hearing each summer to solicit input from the community regarding road needs. The results of this hearing will be presented to the BOS the following month and, after review, subsequently transmitted to VDOT as the County's recommendations regarding the 6-Year Plan.

4. Public Transportation

At present Bay Transit provides an “on-demand” service throughout the County. A fixed route system is being investigated between major villages and towns in the Northern Neck. The County should monitor and support these investigations as part of a long range strategy to encourage fixed route systems including the villages in the County. This system is also discussed in Section G below.

5. Northumberland County Bicycle Facilities Plan

Non-roadway improvements such as bike lanes, sidewalks and greenways perform a vital community function by linking residential areas with non-residential areas such as businesses, schools, and historic or scenic sites. Links between residential areas may also be beneficial. In some instances, bikers, walkers and joggers may need to share the same facilities. However, the potential for user conflicts can be great in certain areas and in those instances it is preferable to create separate bikeways and sidewalks. If necessary, a wider joint use facility may be constructed with a narrow grass median or pavement striping to separate users.

Bicycle facilities should be promoted in subdivisions, on the county-designated Bicycle Trails and especially in more developed areas such as Reedville, Heathsville and the other villages. Priorities should be construction of bicycle facilities within developed areas prior to their extension outside of such areas unless a compelling connection to a recreation area or other public facility is deemed more important.

Bikeways are generally at least five (5) feet wide and are developed in three configurations:

Separate (Class I) - Separate and distinct from roadways. This configuration is generally the safest and most desirable but also the most expensive.

Separate Lanes (Paved Shoulders or Class II) - Paved shoulder adjacent to roadways. Pavement is marked with bicycle symbols and/or text. Roadway signs may also be provided for additional notice where warranted. This configuration is safe and convenient for most cyclists. Added benefit is recovery room for drivers that may need to swerve to avoid obstacles and prevention of road edge deterioration caused by vehicles leaving the roadway temporarily.

Shared Roadway (Class III) - Roadway signs only to alert motorists of designated bikeway routes and remind them to share the roadway as legally required. This configuration is the cheapest and easiest option to establish bikeways, but their use is only recommended for experienced cyclists or average to below average cyclists on roads with good sight distances and low traffic volumes.

While some people may believe bicycle use is just for children, safer facilities could encourage more people to use this form of transportation. In addition, certain persons would be able to safely ride a bike to work or other destinations near or far because they like to or they have to due to income limitations or license loss.

Bike paths and sidewalks should be considered in the design of improved and new road projects. Bikeways and sidewalks provide room for vehicles and people to safely coexist along heavily traveled roads. Construction of sidewalks and bikeways concurrent with road improvements is much easier and cheaper than retrofitting an existing road. Small projects such as painting bike lane stripes on existing roadways with sufficient pavement width could provide a useful start in providing facilities and getting motorists accustomed to dealing with bicycles in a more formal fashion. Additional smaller projects include the identification of existing and potential edge of pavement and sight distance problems that could be corrected through relatively minimal work such as asphalt patching, compacted gravel, minor grading or vegetation trimming.

The bicycle transportation goal of the County is to have an efficient transportation network that reinforces the goals of the Comprehensive Plan and offers alternatives to automobile dependency.

This goal should be implemented through a regional approach, using the Northern Neck Bicycle Trails plan with suitable segments for use by bicyclists, pedestrians and horse riders. The County should continue to participate in this strategy by working with the Northern Neck Planning District Commission as the transportation planning body for the region.

In addition, the strategy should include identification of bikeways and/or pedestrian facilities within major developments and encourage or require the construction of sidewalks and/or bike lanes as part of new subdivisions or commercial developments.

The strategy also includes the following:

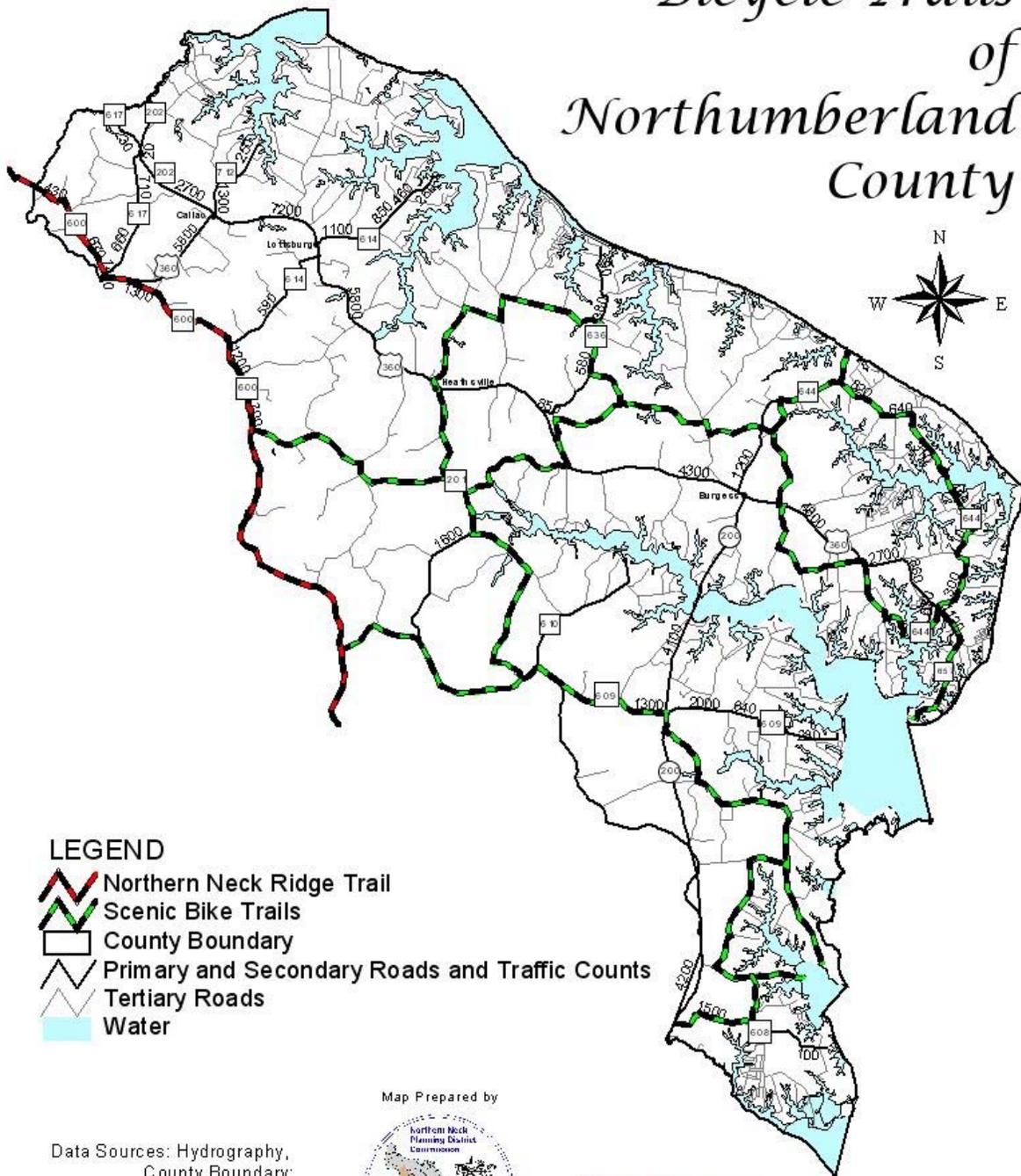
- Emphasize primary highways and portions of roadways on the designated Bicycle Trails in establishing priorities for funding the provision of bicycle facilities throughout the County.
- Pursue the identification and correction of existing and potential edge of pavement and sight distance problems along bike routes designated as Signs Only.
- Pursue the installation of Share the Road signs along the designated Bicycle Trails to remind motorists of Virginia traffic laws and encourage safe habits

where automobiles, trucks and bicycles utilize the same roadways.

Figure 4.3 on the following page identifies the designated Bicycle Trails.

Figure 4.3

Bicycle Trails of Northumberland County



LEGEND

-  Northern Neck Ridge Trail
-  Scenic Bike Trails
-  County Boundary
-  Primary and Secondary Roads and Traffic Counts
-  Tertiary Roads
-  Water

Data Sources: Hydrography,
County Boundary:
USGS 1:100,000,
Traffic Counts:
VDOT, 2003.

Map Prepared by



March 2005



0.4 0 0.4 Miles


C. RECREATIONAL AREAS AND FACILITIES

1. Existing Recreational Sites and Opportunities

Recreational opportunities in Northumberland County consist of a mixture of public and private facilities and programs, both land and water oriented. Some of the more significant facilities are illustrated in Figure 4.4 and identified below.

a. *Athletic Fields.*

The only county-operated athletic park is located adjacent to the Northumberland Middle School. It offers little league level baseball at the present time. The site contains two acres. School sites perhaps offer the most opportunities for active recreation, since each school has its own recreational area.

b. *State Facilities.*

State facilities include three large conservation areas. The Hughlett Point Natural Area Preserve contains about 204 acres. Facilities include parking, trails, a woodland boardwalk, wildlife viewing platforms, and interpretive signs. A second state-owned site, the Bush Mill Stream Natural Area Preserve, containing 103 acres is located near Howland off Route 624. The Department of Conservation and Recreation, Division of Natural Resources, has developed the Bush Mill site with a small parking area, scenic trails and overlooks and interpretive signs. The third site is Dameron Marsh Natural Area Preserve off VA 605 which extends into Chesapeake Bay. It is the largest wetland on the western side of Chesapeake Bay. Facilities include a walking trail and boardwalk, a wildlife viewing platform, and a small parking area. These were established as conservation areas under the control of the Department of Conservation and Recreation.

c. *Chesapeake Bay Access.*

In the Chesapeake Bay Area Access Plan (1990) both public and private areas for accessing public waters in Northumberland County were identified. Thirty access points were examined of which 14 are publicly owned and the remaining 16 are private. The private facilities include both commercial marinas and membership associations. The two tables on the following pages identify the major features of each of these sites.

Table 4.1 gives a listing of public sites together with the specific recreational opportunities available at each site. The most dominant activities are (i) fishing that is available at all but two of the sites and (ii) trailer boat launching facilities available at about half of the facilities. Beach access by the public is available at Vir-Mar Beach, Hughlett Point Nature Preserve and Kohl’s Island. Kohl’s Island incorporates Smith Point itself and a beach to the west of where the Potomac River empties into the Chesapeake Bay, is owned by the Virginia Outdoors Foundation. No public access by land exists, or is planned and access can only be gained by boat. One of the concerns continually expressed by citizens was a need for more access to beaches. Greater beach access would also support the tourist business of the County as well as serve the needs of county residents. While it is true that many residents have access to the beach from waterfront homes or from membership associations, other residents of the County do not have the same access to the waterfront. Another concern is access to public picnic tables and restrooms.

The Chesapeake Bay Access Plan indicated that "numerous beaches exist along protected shorelines. These beaches are often informal access areas, located on private property. Many receive heavy use by those familiar with the area and can be reached only by boat. They should be evaluated to determine suitability for future development for public use", according to that plan another resource for access to the Bay are tour boats and charter fishing boats, the latter being available from numerous private sources in Northumberland County and throughout the Northern Neck

The County would also like to have public water access to take the pressure off shoreline development and encourage attractive, affordable housing inland.

TABLE 4.1
PUBLICLY-OPERATED PUBLIC ACCESS FACILITIES TO THE CHESAPEAKE BAY
NORTHUMBERLAND COUNTY

SITE IDENTIFICATION	TRAILER BOAT LANDING	MARINA (NO. OF SLIPS)	FISHING (PIER OR BANK)	BEACH (SWIMMING)	NATURE STUDY AREA	PICNIC AREA	CAMPING AREA
HAMPTON HALL CREEK LANDING HAMPTON HALL CREEK			Y				
LODGE LANDING, LODGE CREEK	Y		Y				
FORREST LANDING, COAN RIVER	Y		Y				
ROWES LANDING, COAN RIVER	Y		Y				
VIR-MAR BEACH, POTOMAC RIVER				Y	Y	Y	
SHIPPING POINT LANDING, LITTLE WICOMICO RIVER			Y				
SHELL LANDING, COCKRELL CR.	Y		Y				
CRANES CREEK LDC., CRANES CR.	Y		Y				
CEDAR POINT LDC., GREAT WICOMICO RIVER	Y		Y				
COOPERS LDC., GR. WICOMICO R.	Y		Y				

SITE IDENTIFICATION	TRAILER BOAT LANDING	MARINA (NO. OF SLIPS)	FISHING (PIER OR BANK)	BEACH (SWIMMING)	NATURE STUDY AREA	PICNIC AREA	CAMPING AREA
SIMPSONS WHARF	y		y				
GREAT WICOMICO FISHING PIER, WICOMICO RIVER			y			y	
HUGHLETT POINT				y	y		
BUSH MILL STREAM NATURAL AREA PRESERVE, BUSH MILL STREAM					y		
DIMERON MARSH NATURAL AREA PRESERVE, CHESAPEAKE BAY					y		

SOURCE: MODIFIED FROM CHESAPEAKE BAY AREA PUBLIC ACCESS PLAN, 1990 AND PLANNING COMMISSION MEMBERS.

Northumberland County Public Water Access Improvement Project²

The 1996 Northumberland County Comprehensive Plan pointed out the lack of public water access points in the county for citizens. The County has 14 power boat ramps; however, there are few opportunities for those citizens, who want to bank-fish, crab, launch canoes and/or kayaks. The county does have Vir-Mar Beach, a small (250 ft) long beach area on the Potomac River for fishing, crabbing, swimming and/or picnicking.

The Northumberland County Planning Commission has been working for over five years towards improving public water access for Northumberland County citizens. To that end, Northumberland County, with assistance from the Northern Neck Planning District Commission submitted a grant application for a public fishing pier on the Great Wicomico River to The Virginia Department of Environmental Quality's Coastal Program (funded by the National Oceanic and Atmospheric Administration) in 1999. To secure matching funds, the County submitted another grant application to the Virginia Marine Resources Commission's Recreational Saltwater Fishing Fund in 2000. Both grants were awarded, and the County now has a public fishing/crabbing pier to serve its citizens on the south side of the Great Wicomico River Bridge.

However, there are still many opportunities to increase access to state waters within Northumberland County, especially to increase handicap accessibility, and to provide adequate parking for cars and trailers. This plan seeks to address those opportunities.

One goal that might increase tourism and recreational opportunities would be to establish a sufficient number of canoe/kayak launching facilities so that a "trail" would be created,

² More detail including details of improvements, maps and cost estimates are included in Northumberland County Public Water Access Improvement Project – 2004, Grant Application to the Jesse Ball DuPont Foundation, James W. Stone, Secretary Northumberland County Planning Commission.

allowing individuals not only to launch and return to a variety of sites, but to “tour” the County by water.

Four planned improvements to public water access sites will fulfill some of these needs for individual natural, water dependent, recreational opportunities, while emphasizing handicap accessibility. Two sites are existing powerboat launching ramps (Coopers Landing, and Rowes Landing), the other two sites are new water access points (Hampton Hall Creek and Great Wicomico River)..

Coopers Landing

Coopers Landing is a public power boat launch facility in the upper reaches of the Great Wicomico River at the end of State Route 707, owned by the County of Northumberland. There is one active concrete launch ramp and a second ramp unsuitable for launching power boats but suitable for canoes, kayaks and/or car top boats. The Landing gets considerable use from recreational bank fishermen and crabbers. A 72 x 8 foot fishing pier is planned for this site between the two launch ramps to augment the existing 30 inch launching walkway.

Rowes Landing

Rowes Landing is an existing powerboat launch ramp, at the end of State Route 601 in Heathsville, with a gravel turnaround, concrete boat ramp, and small fixed boat launching pier, owned by the County of Northumberland. Due to several recent bad winters, ice has lifted several pilings on the east edge of the existing pier, causing the pier decking boards to be higher on the right side of the pier than the left side. The proposed improvements are to correct the problems with the pier; then to add a 10 foot by 6 foot floating canoe/kayak launch platform, on the opposite side of the pier from the boat launch ramp so as not to interfere with the powerboat launching function of the site

Hampton Hall Creek

The Hampton Hall Creek site is a former public water access site on Route 202 adjacent to the border of Westmoreland and Northumberland County. This public water access site was abandoned many years ago. The plan is to reinstate this site as a public water access point, and construct a canoe/kayak/car top boat launch facility.

A floating pier with a fixed 30 foot by 6 foot entrance deck, and 20 foot by 6 foot moveable ramp and 10 foot x 6 foot floating launch platform is planned to be built adjacent to the access road's turnaround. The floating deck should be very near the surface of the water, making entering and exiting a kayak easy. Vegetation around the kayak launch should be cleared to afford bank-fishing opportunities for land-based anglers.

The County owns the land, and the old roadbed is still intact that terminates at the edge of Hampton Hall Creek.

Great Wicomico River

A new public water access site adjacent to the newly improved Great Wicomico River Public Fishing Pier, under the Rt. 200 Bridge is planned. The planned canoe/kayak launching pier site is located on land owned by the Virginia Department of Transportation (VDOT), however, the County of Northumberland has obtained written permission from the Warsaw Residency of the Virginia Department of Transportation for the construction of a canoe/kayak launching platform at the site. The canoe/kayak launching pier should be very basic. The existing shoreline is a gently sloping sand beach, which is very conducive to launching human powered watercraft. The pier should be an 8 foot by 10 foot ramp connecting to a 12 foot by 16 foot floating platform. The floating platform should be close to the water surface that should allow easy entry for those persons launching kayaks.

As Table 4.1 illustrates, there are two public beaches in the County, Hughlett Point and Vir-Mar Beach at the end of Route 806 near Hacks Neck. Vir-Mar Beach is only 250 feet long, has no improvements and the beach is not protected from sea nettles.

Table 4.2 lists 12 marinas that provided 725 boat slips in 2004. These are commercial marinas available to the public and offering not only boat storage but fuel, food sales, restrooms, and boat repairs. There are many additional “membership” marinas available that provide access to a limited clientele. Many of these are controlled by Homeowners Associations. Northumberland County's unique location at the mouth of the Potomac River near the middle of the Chesapeake Bay makes this one of the more popular destinations for recreational boating and fishing.

SITE IDENTIFICATION	Trailer Boat Landing	Marina (No. of Slips)	Fishing (Pier or Bank)	Beach (Swim- ming)	Nature Study Area	Picnic Area	Camping Area
Coan River Marina, Coan R.	X	63					
Lake Francis Marina, Kingscote Cr.	X	34					
Olversons Marina, Lodge Cr.	X	229					
Lewisetta Marina	X	26					
Krentz Marina,	X	35					
Cockrell's Marina	X						
Smith Pt. Marina/Campground, Slough Cr.	X	115					X
Gaps Marina, Slough Cr.		26					

SITE IDENTIFICATION	Trailer Boat Landing	Marina (No. of Slips)	Fishing (Pier or Bank)	Beach (Swim- ming)	Nature Study Area	Picnic Area	Camping Area
Buzzards Point Marina, Cockrell Cr.		59					
Horn Harbor Marina, Campground & Restaurant, Gr. Wicomico R.	X	30					X
Ingram Bay Marina	X	50					
Smith Point KOA		20					X
Glebe Point Campground		18					X
Reedville Marina		20					

Source: Modified from the Chesapeake Bay Public Access Plan, 1990 and Virginia Department of Health, 2005

d. The Northumberland Family YMCA

The Northumberland Family YMCA is a program-based YMCA currently operating from the County facility near the old Courthouse. They operate several programs through a partnership with the Northumberland County Public Schools. These include After School Care, Summer Day Camp, and various sports activities at the three schools in the County. Recognizing the growing need for family recreational opportunities, the YMCA has begun planning for a full facility, possibly to be collocated on the County property adjacent to the Middle and Elementary Schools. Upon completion this facility should house a full health and wellness center, group exercise center child watch center and an indoor pool,

e. Golf Courses

Three golf courses are located within Northumberland County. Indian Creek golf course is part of a group of recreational facilities offered by the Indian Creek Yacht and Country Club. The Village Green golf course is located on Route 360 just west of Callao. Quinton Oaks golf course is also located within the County outside Village and off Route 600.

2. Conclusions Regarding Recreational Facilities

Northumberland County's major recreational offering is its access to 556 miles of shoreline of the Chesapeake Bay and its tributary rivers and creeks. Sport fishing, recreational boating and sailing also provide a stimulus for summer tourism thereby contributing greatly to the economy of the County through marine sales and operation of marinas, including repairs and fuel sales. In addition, the boats that are based permanently in the County provide a significant contribution to the tax base. It should be a major policy of the County to promote the development of quality boating facilities for

both public and commercial use. In the same sense, public beaches may also contribute to the economy of the County while providing a major recreational service for local citizens.

One needs only to look at the growth of other communities along the East Coast to see that public beaches attract significant investment that satisfies a market for recreation. The growth of sport and recreational boating, combined with expanded beaches and controlled beach front development, offers a substantial opportunity for the growth of Northumberland County's economy.

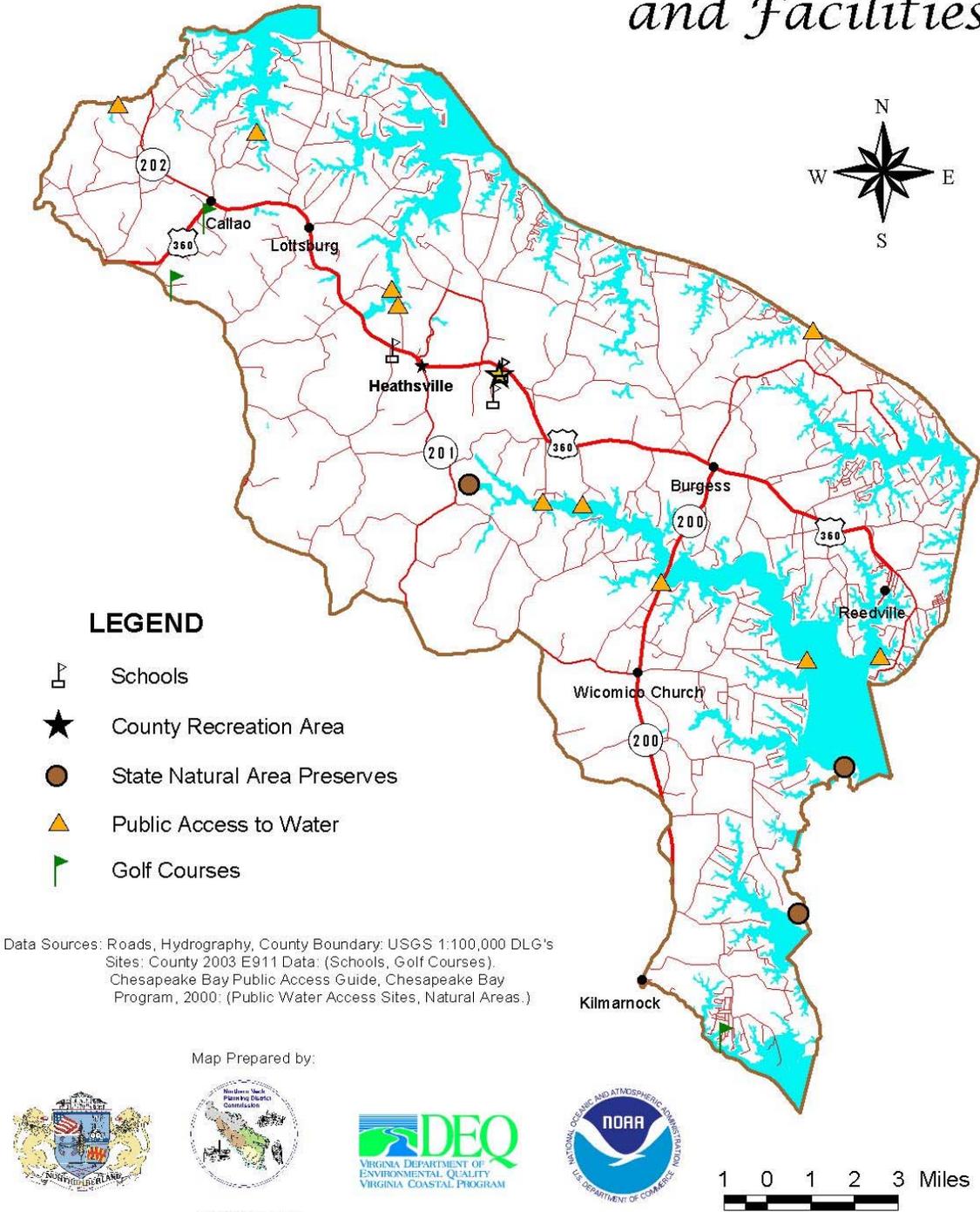
Vir-Mar Beach facilities were removed in the mid-1990s due to misuse and the difficulty in providing security. The County should explore the re-establishment of picnic and rest room facilities at Vir-Mar Beach.

In the area of public recreation the focus of recreational planning should be on services that serve the local population of all ages. At the present public recreation that is offered is limited by the amount of land available. This includes a single public playfield at the Middle School and use of school sites whenever they are not in use by the school program.

The County should plan to have a public park oriented toward children and young adults. The neighborhood-type park should have tennis courts, a jungle gym, basketball court and other amenities and be located off the water. Consideration should also be given for a comparable public facility oriented toward the retired community.

Figure 4.4

Recreational Areas and Facilities



As future plans are made for recreational facility development, the following general standards that have been used in other parts of Virginia as well as nationally may be helpful. These standards have been found to provide a satisfactory number and distribution of recreational facilities in typical communities.

- a. Baseball and softball fields: Baseball is played in almost all communities and by nearly all ages. . Fields that are designed for youth baseball can also be used for adult softball since both use the same base spacing. The major difference is that softball requires a little longer pitching distance and longer outfield. A rule of thumb for ball fields in a community is at least one ball field for every 6000 persons. Considering the demographics, two should be sufficient for Northumberland County, but because of the distance between upper and lower parts of the County others may be required in order to provide service to all parts of the County.
- b. Basketball: This is another popular activity among youth. Schools may provide enough basketball courts to meet this need if they are spaced throughout the community appropriately. Both the Callao and Fairfield school sites have basketball courts. The general standard for basketball courts is one court for every 500-1000 persons.
- c. Tennis: The demand for tennis depends upon the importance of this game to each locality. There is a state standard that suggests one tennis court for every 2000 persons. At least one court should be available at the Middle School and two at the High School..
- d. Swimming Pools: The state standard suggests a swimming pool for every 10,000 persons. At present a public swimming pool is not available in Northumberland County for swimming lessons and competitive activities and adult recreation. The planning for the Middle School should include the option for a pool to be shared with the High School.

Future efforts to provide opportunities for recreation in Northumberland County should be focused on establishing a basic infrastructure of facilities similar to and in the amounts suggested above. The next step is to secure sites for the facilities with the facilities themselves being added as funds are available. .

D. PUBLIC BUILDINGS AND SCHOOL FACILITIES

This section addresses the public buildings used for the County administrative offices and courts related uses, the Sheriff's department, and the buildings used for the County school system. The location of each of these facilities is indicated in Figure 4.5. Information on the County administrative office needs was obtained through discussions with County officials and department heads. Information on the County school buildings was obtained from material provided by the Superintendent of Schools to the Board of

Supervisors.

The Northumberland County Library, which has facilities for public meetings, is an important contribution to public services to the County residents as is the Fisherman's Museum located in Reedville.

1. Administrative Offices

County administrative offices, courts facilities, sheriff's office and other government functions are centrally located in Heathsville in or near the courthouse. With the completion of the new courts facility for the General District Court, the Circuit Court, Clerks of both courts, and the Juvenile and Domestic Court Services units, their space and facility requirements outlined in the last version of this Comprehensive Plan have been met for the foreseeable future.. These are located in a separate building behind the existing courthouse.

The Commissioner of the Revenues and the Treasurer's requirements for additional office space were met when the court clerk relocated from the first floor of the courthouse to the new facility. The existing courthouse building needs to be renovated to add an elevator and provide handicap access to the basement areas which meets the Americans with Disabilities Act. Social Services, Health, , and the Cooperative Extension Service have sufficient space in their existing locations and should not likely experience significant growth in the foreseeable future.

The Sheriff's building was expanded to accommodate the needs of the new E-911 emergency dispatch system. The movement of dispatchers to the 911 space made additional office space available for use as desk space for some of the deputies. More space is required to accommodate current and future communications equipment and computer systems.

Participation in the Regional Jail has eliminated the requirement to accommodate inmates in the Sheriff's building.

2. Other Public and Quasi-Public Facilities

The Northumberland Public Library located on U.S. Route 360 in Heathsville is available to the public and is a valuable resource. The Library is open 62 hours a week, including Saturdays and some evenings.

The Library is an important aspect of life in Northumberland County. Library attendance in 2004 was approximately 32,000 and has been growing at a rate of 5% or greater per year. 35% of the County population holds library cards. The card catalog is also available online.

The collection consists of approximately 35,000 books and materials and provides free internet broadband access through the Library computer center and also offers high speed wireless WiFi service to patrons with laptops.

There is a planned balance in the collection between the user demographics and the classes of items. Additional emphasis has been given to audio books and videos to meet the needs of the older population and the disabled. A children's librarian focuses on pre-school and elementary school children and a new "Homework Center" focuses

on Middle and High School students.

The Library is a very busy place and lack of additional space is becoming a problem. The Library Long Range Plan and the Expansion Plan both address the needs of the future and expected growth in the County.

3. School Facilities

Schools are provided in Northumberland County School system by a Board of Education through the office of the Superintendent of Schools. The Board, together with its administrative staff is responsible for providing a system of public school facilities and an educational program of high quality. The population range from which most of the school enrollment comes has remained almost constant since 1980 and state estimates suggest this trend should continue for the next 10 to 15 years. Following are the estimates of population for the age group 0 to 19 for the last three decennial censuses and projections by the Virginia Employment Commission for the next two census years (Refer to Table 2.1, Appendix A).

YEAR	1980	1990	2000	2010	2020
Population	2485	2305	2491	2804	3356

Demographic trends show that although population growth has been occurring in Northumberland County, most of the growth is occurring in the adult population. The analysis referred to above reports that the age group from 20 to 44, customarily referred to as the "childbearing age" is projected by the state to remain constant at approximately 3000 persons through 2010. In addition, the older population is growing not only demographically but by the attraction of Northumberland County as a place for retirement. These forecasts point to an era of little growth potential for school enrollment.

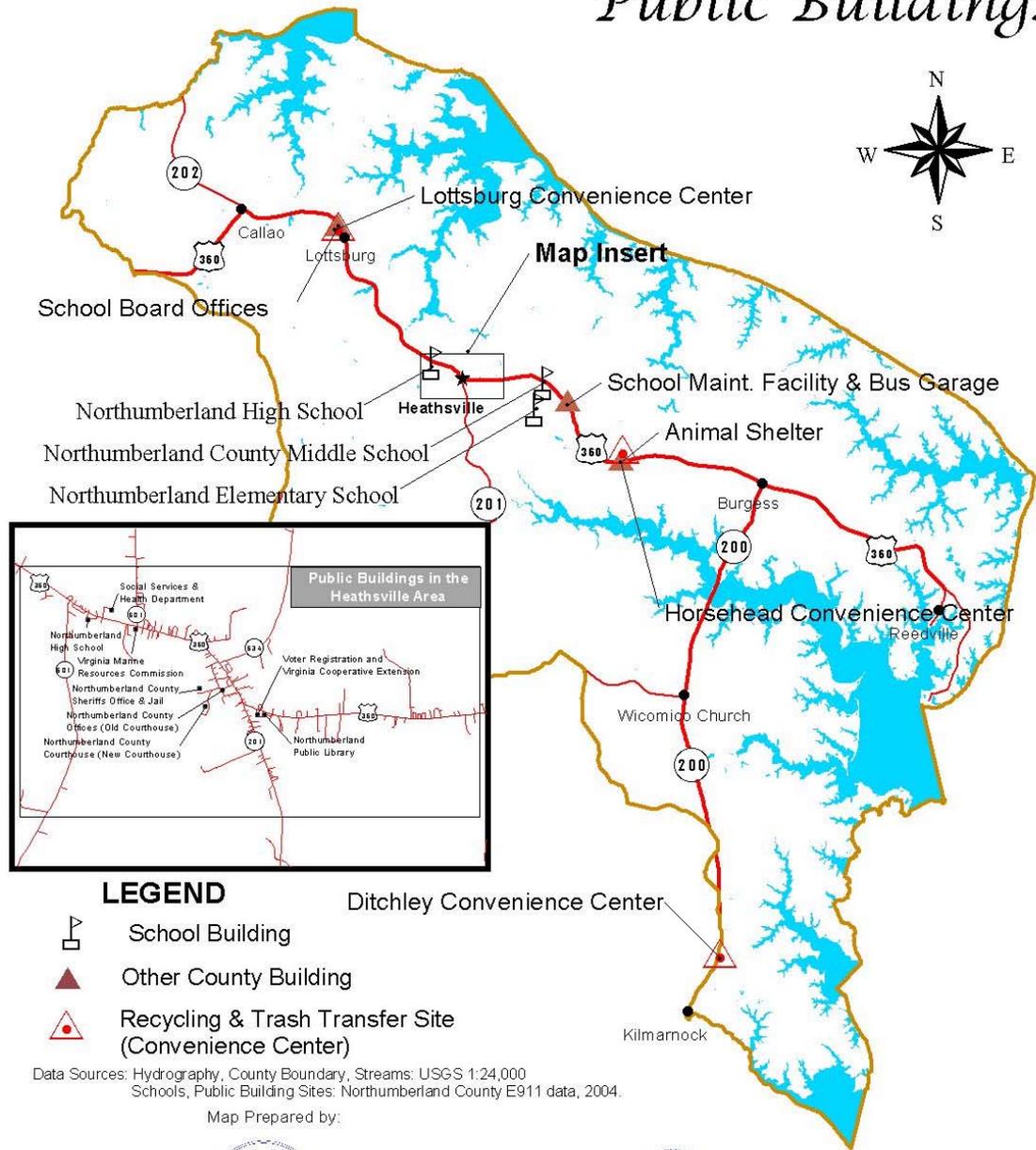
The County opened the Northumberland Elementary School in 1996. This facility replaced the elementary schools at Fairfield and Callao. Northumberland Middle School and Northumberland High School continue to serve the upper grades. The school system projects that school membership in the next five to ten years should remain fairly steady. The schools are identified in Figure 4.5 and described in the following paragraphs:

- Northumberland Elementary School

This elementary school is designed for an enrollment of 750 students from preschool to kindergarten through the fifth grade. Its design features some of the latest technology, including pre-wiring for computer networks in each classroom area. School system projections indicate that the elementary school enrollment should remain steady or gradually increase in the future; therefore it should have sufficient capacity until growth patterns in young families increase. Current enrollment is approximately 650 students.

Figure 4.5

Schools and Other Public Buildings



May 2004

- Northumberland Middle School

This facility is the oldest in the school system and it is currently accommodating about 370 students. There is a space shortage at this facility which has required the conversion of the stage area and the shop to classroom space. Temporary classroom units are also in use due to the lack of classroom space. This facility is scheduled for (replacement or renovation) **(Decision expected to be made prior to approval of this Comp Plan and wording will be changed accordingly.)**

- Northumberland High School

The 2005 high school enrollment is about 450 students which exceeds the basic classroom capacity of the building. Trailers are being used for classroom space. The current available space is inadequate at this time to meet present and future program requirements. Significant issues exist regarding the alternatives for meeting the educational needs of the High School. These were discussed during the decision on the Middle School and included renovation versus relocation near the Middle School and the feasibility of co-locating the three schools at some point in the future.

Overall, the present school system's capacity appears to be fairly evenly matched with the number of students. The educational needs at the Middle School have been resolved and the focus is shifting to resolving the problems at the High School. And with little growth foreseen in enrollment, future school planning can focus on matching the facilities with the education needs of the community.

An analysis of recreational space suggests that the playfields could increase the opportunities for full-time recreation. The buildings present other opportunities such as the current use of offices for the School Board. The current strategy which was discussed during the decision to renovate or replace the Middle School is to take aggressive action to convert these buildings for various uses including: economic enterprises, housing, community service buildings, community colleges and the like.

There are educational and economic advantages as well as benefits to the community to co-locate the high school on the property along Academic Lane near the Middle School. The resulting campus could include an acoustically satisfactory auditorium as well as a sports complex with a gymnasium, indoor pool, playing fields and tennis courts as outlined previously in Section C above. A detailed analysis and plan should be prepared to ensure there is sufficient usable space to accommodate these concepts and accommodate future growth.

In addition, under the assumption other facilities may be added to the property owned by the County where the Middle School and Elementary School are currently located,

planning should include consideration of the eventual use of the total property for the uses outlined in the paragraph above. Therefore, the planning should consider the total parcel as a unit including integrated water and sewage systems, roadways, parking, underground utilities and the use of Low Impact Development principles for stormwater control. Space and capacity should be set aside for those facilities not included in near term plans.

E. WATER SUPPLY AND SEWAGE DISPOSAL

1. Water Supply

An examination of water sources is presented in Chapter 1 as part of the analysis of environmental conditions. That chapter identified groundwater as the present source of potable water supply for Northumberland County. Water comes from three aquifers: the surficial or water table aquifer, the Chickahominy-Piney Point aquifer (the so-called “intermediate artesian aquifer”), and the Brightseat-Upper Potomac aquifer (the so-called “principal artesian aquifer”). Today most large water users take ground water from the Brightseat-Upper Potomac artesian aquifer, and it is anticipated that this aquifer will experience the most development in the next decade or so. Numerous households, however, that are not on a community water system; take water from the water table aquifer, the one closest to the surface.

State surveys have indicated that the aquifers should provide an adequate supply of potable water to the County well into the 21st century. However, it appears certain that continued withdrawal of artesian water at current rates, causing water level declines of 1.1 feet/year, are ultimately not sustainable. Currently, declining water levels in the artesian aquifers of Northumberland County are caused predominantly by ground water withdrawals by large water users in Southern Maryland and the West Point (King William County) region. In the future, increasing economic and residential development in Northumberland County will place additional stress on the ability of the artesian aquifers and accelerate water level decline. Data on these users and the rates of decline are provided in Section 3 of Appendix A.

The Health Department classifies water systems as community, transient or non-transient water systems. A community water system is one that serves 14 or more houses or 25 or more persons for at least six months per year. A transient public water system is a class that is used by motels, restaurants and similar uses. A non-transient system is the same as a community water system but is used less than six months per year.

The Three Rivers Health District listed 54 public water systems in Northumberland County in 1995. These were distributed among the above three classes as follows: 28 community water systems; 8 transient systems; and 18 non-transient systems.

Figure 4.6 illustrates the locations of most of the major public water systems currently in

service. The map displays 36 systems including the community systems and some non-transient systems such as public schools and systems serving larger employers.

Future needs over the next 20 years and beyond for potable water are a significant planning issue for Northumberland County as discussed in Chapter 1. There appears to be sufficient groundwater in the deeper aquifers for the next several decades. Eventually, the artesian aquifers will cease to supply an adequate quantity of potable water and alternative supplies will be required.

If large-scale development of the type that is developing in many communities along the Mid-Atlantic States comes to Northumberland County, or to nearby communities using the same aquifers (as is already happening in Maryland to the detriment of both artesian aquifers) water supply will become a more immediate problem.

Such development, however, may be regulated and required to provide its own water system in scale with need. It would be prudent on the County's part, however to have an alternative source of potable water supply. This is particularly true because of the County's proximity to sea water. Major withdrawals even in the upper reaches of the lower aquifers combined with pressure from sea water would modify adversely the quality of water available in the aquifers.

A long-range strategy of surface impoundments is prudent.

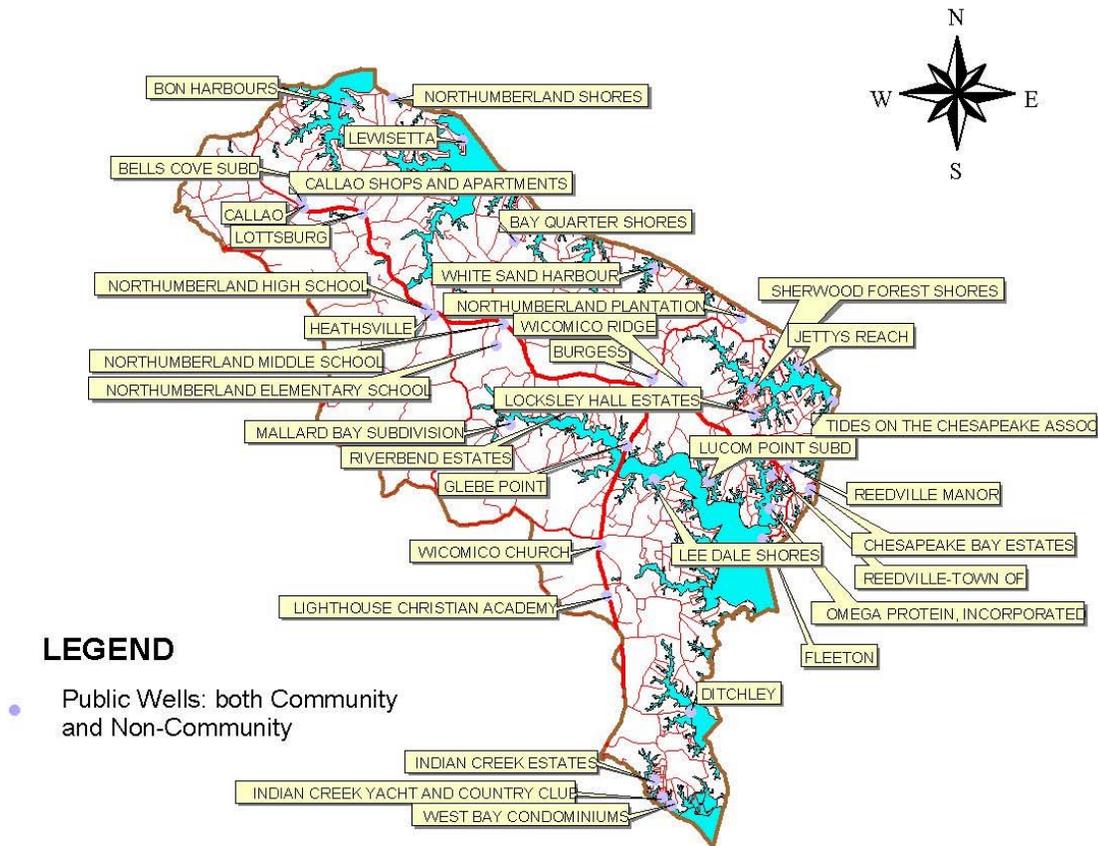
The 1969 report prepared for NNPDC by Martin, Clifford and Associates identified nine (9) reservoir sites in Northumberland County. All these sites should be permitted to develop only as consistent with a future public water supply. The sites of greatest potential include:

Site	Serving	Acres	Million gallons/day
Lodge Creek	Callao	118	1.05
Mill Creek	Wicomico Church	163	0.35
Sydnor's Mill	Burgess and points east	328	0.48
Crabbe Mill	Heathsville	310	0.56

These four reservoirs could provide 2.4 million gallons/day, enough to serve 24,000 people assuming typical water usage of 100 gallons/day/person. These four reservoirs should provide abundant water for the foreseeable future recognizing that some citizens not easily served by a public supply will remain on either artesian or shallow wells. Because most of the population of the county is in the northeast, and that is where growth is likely to be highest, it will ultimately be necessary to connect the reservoirs. It would be advantageous to Lancaster County to utilize Mill Creek reservoir and the two adjacent counties should coordinate planning.

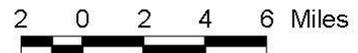
Figure 4.6

Community Public Water Systems



Data Sources: Roads, Hydrography, County Boundary: USGS 1:100,000 DLG's
 Well Locations: Virginia Department of Health (VDH), Source Water Assessment Program (SWAP) GIS Data, February 2003.

Map Prepared by:



March 2005

2. Sewage Disposal

The general mode of sewage disposal in Northumberland County is the septic tank; the exceptions are at Fleeton, Reedville and Callao where a public sewerage system been established. The systems are operated by the Reedville Sanitary District which is governed by the County Board of Supervisors. The Sanitary District was originally designed to serve the town of Reedville but it was expanded in order to extend coverage to the Blackberry Community Development Project Area, Fleeton and Callao.

Figure 4.7 shows sanitary sewage facilities in the Reedville and Callao areas. Also shown on this map are the general locations of the pumping stations and the treatment plants. The Reedville plant is located across Cockrell Creek near the Omega Protein Facilities, which is also served by the Reedville system.

With the addition of the Fleeton community, the system is presently operating at a high percentage of its total capacity. The Reedville treatment plant is designed to treat 200,000 gallons per day and the Callao plant 60,000 gallons per day.

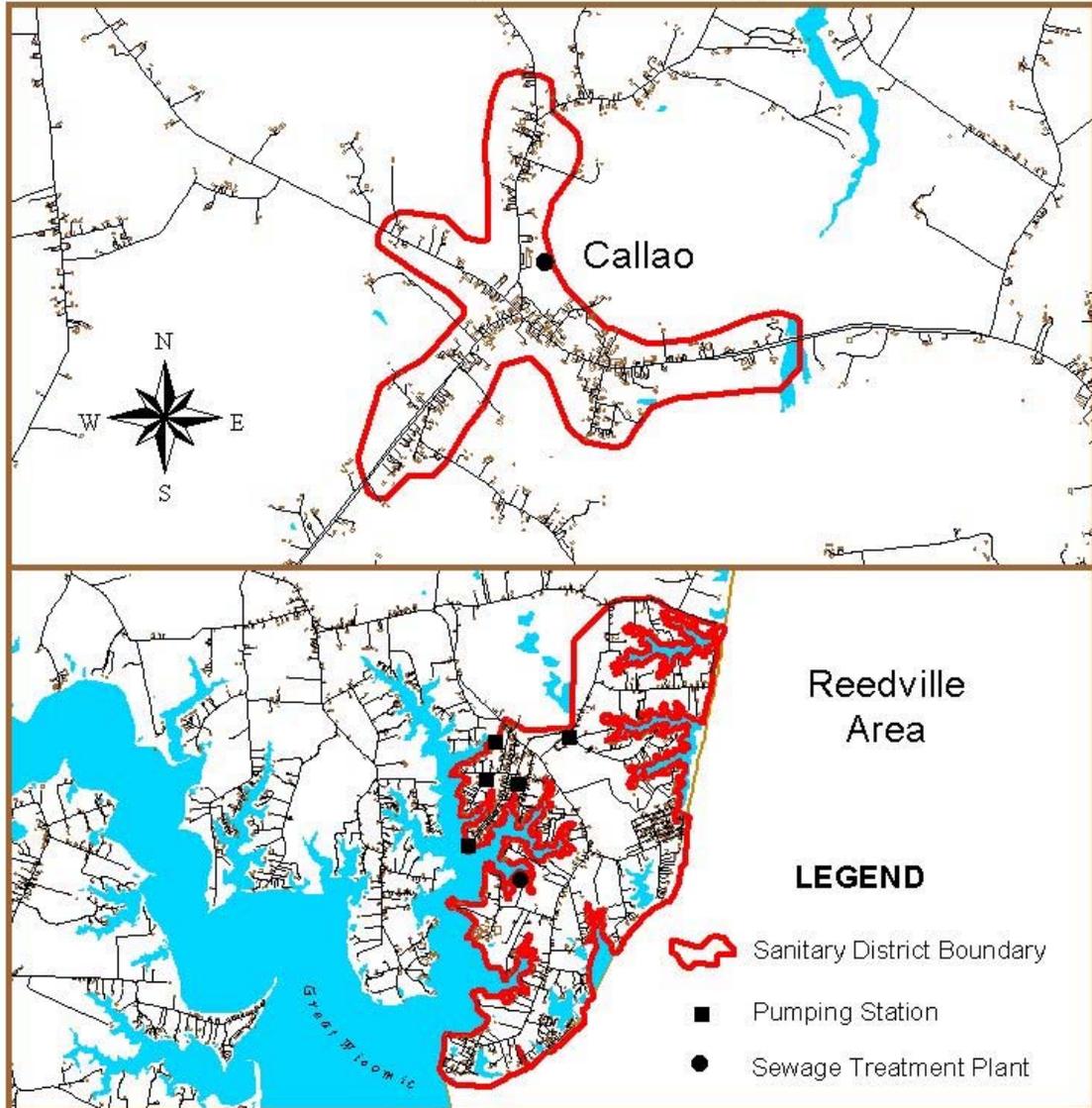
Other areas of the County show signs of developing into active commercial areas even without sewers. There are signs of growth at Burgess and at Heathsville, and in the long-range picture these areas would likely experience more development if sewer systems were available.

But there is the constraint of economic and financial feasibility. The Fleeton expansion at Reedville and the Callao sewer system received grants of 75% of the construction costs leaving the remainder to be borrowed by the County and the debt serviced by the monthly fees. In general, future expansions of the existing systems are encouraged where there is no financial impact on current patrons caused by the expansion.

There is a problem in the lower end of the County at the Indian Creek community. Soil problems and other constraints have led the County to apply for a grant to install a community sewer system similar to Callao. The available options are very limited should the grant application be rejected.

None of the other villages of the County appear to meet the current requirements for similar grants because of the low population densities. The monthly rates would have to be too high even with a comparable percentage of the funding in grants. Nevertheless, the potential exists in these areas for commercial development and the establishment of new jobs. This is sufficient reason to continually monitor and examine the feasibility of establishing sewer systems at each location, and when determined to be feasible and cost-effective, to actively pursue them.

Figure 4.7 *Sanitary Sewerage Facilities*



Data Sources: Hydrography, County Boundary: USGS 1:24,000 Topographic Quadrangles.
 Roads, Building Footprints: Northumberland E-911 data.
 Sewered Areas: Virginia Department of Health, Division of Shellfish Sanitation, modified with Northumberland County Staff input, (Fleeton extension and Callao region).

Map Prepared by:



February 2005

Upgrades of existing facilities to reduce the discharge of nitrate and phosphate to local waterways should be planned. New facilities should be designed with state-of-the-art nutrient reduction technology. Upgrading the Reedville plant to reduce nutrient discharge and to accept septic pump-out should proceed simultaneously in order to realize cost savings. At least one of the current sewage systems should be adapted to accept septic system pump-out.

F. OTHER PUBLIC AND QUASI-PUBLIC SERVICES

1. Emergency Services

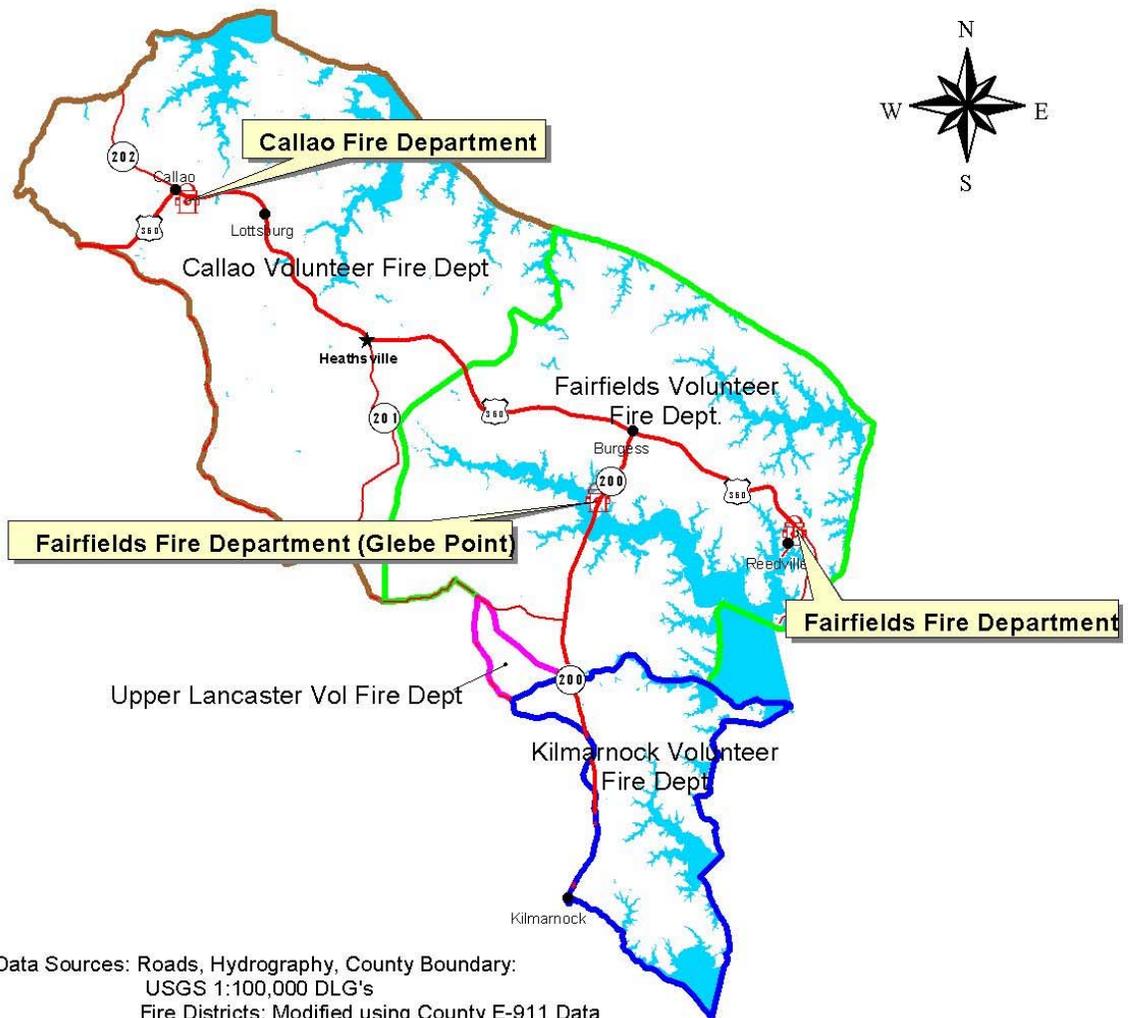
Emergency services are available in Northumberland County through volunteer fire departments and volunteer rescue squads. Communications are coordinated through the Sheriff's office. Figures 4.8 and 4.9 identify the locations of fire and rescue facilities within the County and the area served by each facility.

Fire departments serving Northumberland County include the following fire stations:

- The Callao Volunteer Fire Department: serves the northern part of the County to Horsehead.
- The Fairfield Volunteer Fire Department: serves the eastern portion of the County approximately from Horsehead to the Chesapeake Bay and the southern portion to about one mile below Wicomico Church. This fire company's main station is in Reedville with a sub-station located on Route 200 between Burgess and Glebe Point.
- The Kilmarnock Volunteer Fire Department: serves the remainder of the County from the point served by the Fairfield Company to the county line (shaded area on Figure 4.8).
- The Upper Lancaster County Volunteer Fire Department serves a small portion of Northumberland County between Mill Creek and Route 615 (county line).

Figure 4.8

Fire Districts



Data Sources: Roads, Hydrography, County Boundary:
USGS 1:100,000 DLG's
Fire Districts: Modified using County E-911 Data
from Virginia Economic Development
Partnership layer.

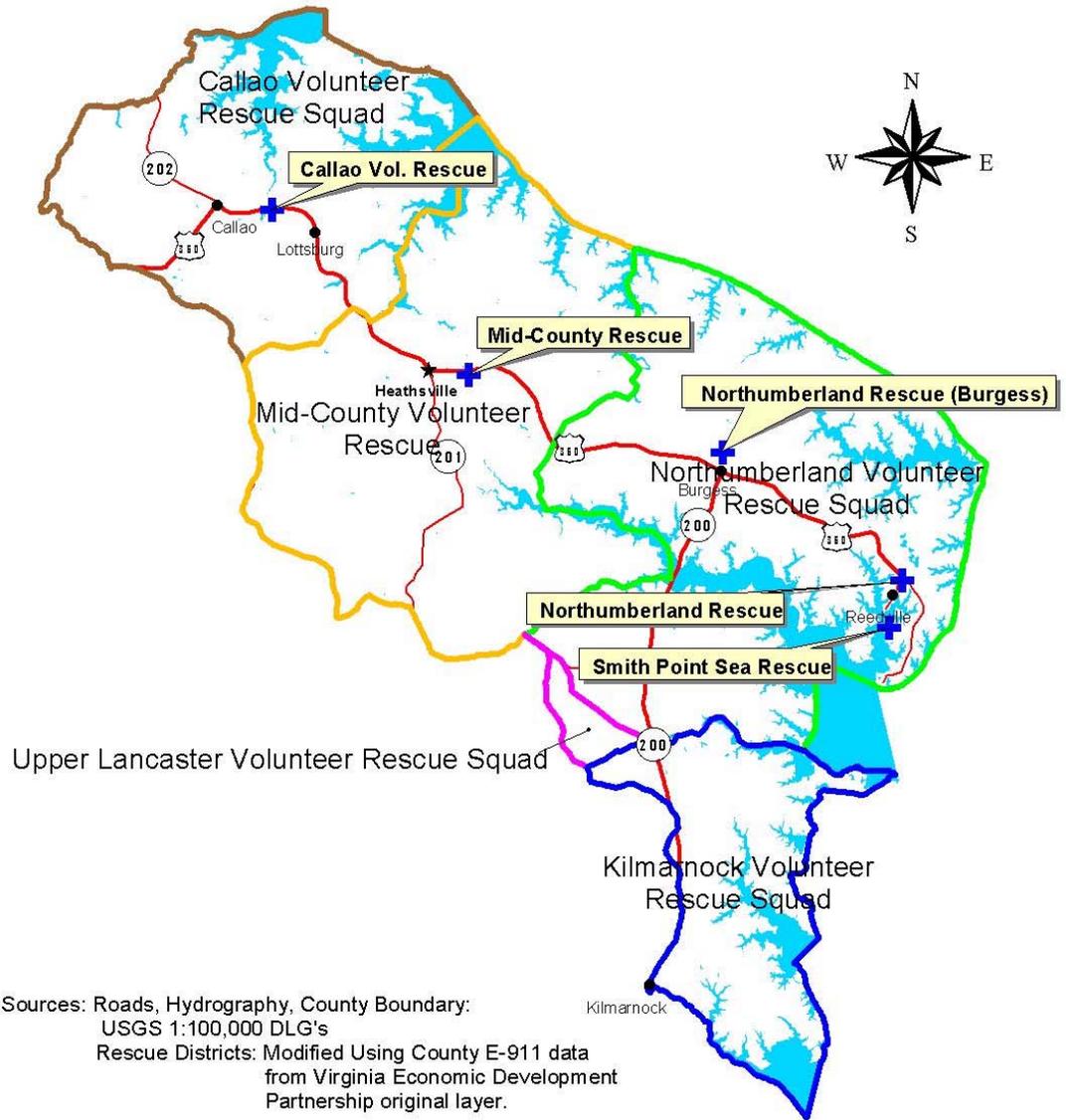
Map Prepared by:



March 2005

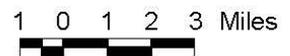
Figure 4.9

Rescue Districts



Data Sources: Roads, Hydrography, County Boundary:
 USGS 1:100,000 DLG's
 Rescue Districts: Modified Using County E-911 data
 from Virginia Economic Development
 Partnership original layer.

Map Prepared by:



March 2005

Rescue squads serving Northumberland County are:

- The Callao Volunteer Rescue Squad serves the western part of the County from the county line to the Coan River.
- The Mid-County Volunteer Rescue Squad located just east of Heathsville serves the area from the Coan River to an area marked approximately by Horse Head, Hull Creek, Great Wicomico River and Browns Store.
- The Fairfield Volunteer Rescue Squad serves approximately the same area as the Fairfield Fire Department and also operates through a main station at Reedville and a sub station at Burgess.
- The Kilmarnock Volunteer Rescue Squad serves the southern tip of the county from just below Wicomico Church, the same area served by the Kilmarnock Fire Department. The portion of the County served by the Lancaster Volunteer Fire Department is provided with Rescue Service by the Kilmarnock Rescue Squad.
- Smith Point Sea Rescue, operated by volunteers, provides a search and rescue service.

At present these services are provided by all-volunteer organizations, there are no paid personnel. As indicated in the demographics, the County contains an aging population and it is to be expected that an increasing number of calls will be for rescue squad services to transport persons to hospitals. This will place a further strain on personnel, especially if the volunteers are drawn away from their places of employment. The County needs to encourage and support recruitment of volunteers.

The volunteer rescue squads and fire departments need to perform a coordinated analysis and plan to address the changing demographics. This includes investigating the need for additional Fire Substations in villages such as Heathsville.

2. Solid Waste Services

The solid waste system serving Northumberland County consists of three solid-waste collection stations which provide facilities for citizens to dispose of their refuse and recyclables into appropriate bins. The bins are then transported to a land fill in another jurisdiction by a private contractor. The locations of the collection stations (Convenience Centers) are shown on Figure 4.5. They are located as follows:

- Lottsburg on land which was part of a school site; now beside the School Board offices.
- East of Horse Head on U.S. 360.
- On Route 200 between Wicomico Church and the County line.

A typical solid waste collection site occupies about an acre and contains the following:

- Container with compactor that can be transported by truck.
- Spare container
- Recycle box (1 or 2)
- An attendant is stationed at each site.

While the present sites offer a solid waste disposal system, including recycling, in different parts of the County, concern was expressed in meetings of a need to have a more visible program for disposing of household wastes which are classified as hazardous. Typical wastes in this category include old motor oil, paint cans, and household or garden pesticides.

3. Animal Shelter

A fenced animal shelter has been built on the property currently used for solid waste disposal on U.S. 360 near Horsehead. This facility can house 20 dogs and a recent expansion provides space for cats. It is operated by volunteers and managed by the Animal Warden who is supervised by the Sheriff.

4. Emergency Preparedness

Hurricane Isabel hit Northumberland County on Thursday September 18, 2003 and caused extensive damage to trees and the power grid and also caused water damage from storm surge along the rivers. For many reasons, a combination of preparedness, effective support systems, strong community support and good fortune, there were no deaths attributed to the storm and minimal injuries.

The State and Federal policy is that a disaster is a local event and each jurisdiction must take care of itself for at least 72 hours and not rely on the State or Federal organizations. When all local resources have been expended to resolve a particular problem, then localities may look to the State for assistance. When all State resources are expended, then the Federal government will provide assistance.

The County performed a “Lessons Learned” analysis and developed a set of recommendations after Hurricane Isabel and has initiated a program to increase preparedness and response in several key areas:³

- Management and Organization – formalize several informal working relationships to ensure all relevant personnel understand their roles in the process;
- Facilities – provide necessary emergency facilities and logistic support to the County Administrator in his role of Emergency Coordinator;

³ Kenneth D. Eades and Gregory T. Haugan, *Lessons Learned – Hurricane Isabel*, December 17, 2003

- Communications – improve communications between all emergency service organizations and between governmental entities; improve communications with the public;
- Shelters – ensure that existing shelters in the schools and other facilities are staffed and equipped to accommodate expected demand, investigate the possibility of adding additional shelter space; and
- Power – ensure that emergency generators are available and operational to support the shelters and communications needs

Shelters with emergency power should be planned as a part of any new school construction.

5. Marine Research and Educational Facilities

Northumberland County is located at mid-bay and would provide an excellent location for marine research and educational facilities for the region. The County currently cooperates with VIMS in research in the County waters and is a sponsor of the Marine Trades program of Rappahannock Community College. These activities and others should be combined into an integrated effort and plan.

G. HEALTH, HOUSING AND HUMAN SERVICES

This Health, Housing and Human Services section of the Comprehensive Plan describes the needs and available services. Emphasis is placed on meeting the provisions for the Elderly and Persons with Disabilities in accordance with HB 2407.

Services are currently available in the following areas:

1. Health Services;
2. Provisions for the Elderly and Persons with Disabilities;
3. Other Social Services Programs; and
4. Housing.

Each of these services is described in more detail below. While the list appears extensive, it is not clear that the funding and other resources match the needs.

A final paragraph is included that provides for the development of a Comprehensive Community Health, Housing and Social Services Plan as a complementary plan to this Comprehensive Plan in order to assist in matching services to the need.

1. Health Services

The County has a number of residents who are at or below federal poverty levels and/or unemployed and a disproportionate number of the population who are over sixty-five and are a burden on the local health care system. Currently approximately 25% of the population is over 65 years of age and by 2010 the number is expected to exceed 30%.

Northumberland County has no public medical facilities other than the services of the Northumberland County Health Department which is a component of the ten-county Three Rivers Health District. These limited services are available to the citizens of the County, with fees based on a sliding scale based on income. Northumberland County is one of nine counties in the District that is designated as “Medically Under-Served”. There are several private doctor and dentist offices and clinics in the County.

Services outside the County are provided by Rappahannock General Hospital, RGH, in Lancaster County which provides significant health care to the county and is linked to Chesapeake Medical Group in Heathsville. Also, Riverside Tappahannock Hospital provides support from Essex County and is linked to Dr. Lewis’s clinic in Burgess. Because of high medical liability costs and a relatively small number of patients, RGH has recently discontinued its maternity ward activities.

The Northern Neck Free Health Clinic in Kilmarnock provides health care to persons in the Northern Neck and Middlesex County who can not reasonably be expected to pay for such care.

The County should work toward bringing medical facilities, nursing homes and assisted living facilities into the County.

2. Provisions for the Elderly and Persons with Disabilities

The County has an aging population and it is expected to continue as more retired persons move into the area. This section describes the services available.

a. Auxiliary Grant Program

Financial assistance is available for certain needy aged, blind or disabled persons who reside in adult care residences or adult family care homes. The money received, plus other income, is used by the person to pay for care provided by the home. Individuals who get money from the Auxiliary Grant Program also get a Medicaid card to use for medical bills.

b. Adult Services of the Northumberland Department of Social Services

(1) Adult Protective Services

This program receives and investigates complaints and reports concerning the abuse, neglect, or exploitation of those over age 60, disabled individuals over age 18, and their families, when necessary. Intervention may involve in-home services, counseling, transportation, day care, sheltered employment, legal proceedings, and meal provision.

(2) Home-Based Services

The Home-Based Service provides home-based services for those over age 60, disabled individuals over age 18, and their families when necessary. The goals include the maximization of self-sufficiency, the prevention of abuse and neglect, a reduction and delay in premature or unnecessary institutionalization, and aid (when such a placement is appropriate).

(3) Screenings

This service provides screenings for nursing home and adult home residential placements and for community-based home care.

c. Bay Aging

Bay Aging is a non-profit organization that works at the community level to assure the delivery of efficient and appropriate services to older persons. Bay Aging's goal is to provide support to help older citizens remain as independent as possible -- for as long as possible. The organization serves 10 counties in the area including the Northern Neck and Middle Peninsula. It is funded by a combination of Federal, State, and Local governments and by donations.

Bay Aging provides four primary services: Adult Day Services at Senior Activity Centers; Meals on Wheels; Bay Transit and a Housing Program.

The Senior Activity Center for Northumberland is located in the Old Fairfields Elementary School in Burgess. The Senior Center is a community focal point which offers the opportunity for socialization through supportive and challenging group programs. It is available to individuals age 60 and over who function independently...

Adult Day Care Program is located at Bethany United Methodist Church in Reedville. The Northumberland program is licensed by the Department of Social Services and is an approved Virginia Medicaid provider. The Center provides various activities, opportunities to socialize, a change of scenery, physical and mental exercises and health monitoring. The latter involve the use of trained nurses to help families understand health care needs and identify conditions that need medical attention. Meals and transportation are provided.

Meals on Wheels uses dedicated volunteers to deliver hot lunches to individuals age 60

and over who are homebound due to illness or disability and are unable to prepare nutritious meals.

Bay Transit is a public transportation system for all people of all ages that serves the entire Northern Neck and Middle Peninsula. It is a “dial-a-ride” system that operates from 6 am to 6 pm Monday through Friday.

The Housing Program works through the Department of Social Services who provides space one day per week for a representative of Bay Aging to meet with applicants from Northumberland County for their housing assistance services. Primary assistant is through the Indoor Plumbing and Rehabilitation Program, the Virginia Water Project and the emergency Home Repair Project. This complements the Section 8 housing assistance offered through the Northumberland Social Services.

d. Northern Neck Disabilities Services Board

Formed on September 21, 1999, the Northern Neck Disability Services Board (NNDSB) is a partnership of disabled consumers, local governments and businesses working to extend existing services and create new services for individuals of the Northern Neck with physical and/or sensory disabilities through administration of the Rehabilitative Services Incentive Fund.

The NNDSB provides disabled consumers with increased transportation, education and employment opportunities, accessible and affordable housing and medical services. The NNDSB also continues to improve awareness of existing and new programs through quarterly meetings, local media, related organizations and direct contact with individuals in need.

Duties of the NNDSB:

- Develop and make available for public comment an assessment of local needs and priorities of people with physical and/or sensory disabilities, updated every three years;
- Provide information and resource referral to local governments regarding the Americans with Disabilities Act;
- Administer the Rehabilitative Services Incentive Fund and serve as a catalyst for the development of public and private funding sources;
- Exchange information with other local boards regarding services to persons with physical and/or sensory disabilities and best practices in the delivery of services; and,
- Provide such other assistance and advice to local governments as may be requested.

The NNDSB administers the Rehabilitative Services Incentive Fund (RSIF) which is a grant allocated by the Department of Rehabilitative Services to promote investment in

meeting the needs of individuals with physical and/or sensory disabilities. The RSIF grant is used to increase service capacity through expanding existing services or creating new services.

Through the NNDSB and the County match, local service providers (SAIF Water Committee and Bay Aging) have provided home repairs and modifications for accessible housing, emergency services, education on disability issues and increased awareness of existing and new programs for disabled consumers.

The NNDSB performed a Triennial Needs Assessment in 2003 for the Northern Neck, however it was not sufficiently definitive to provide a basis for firm action.

The NNDSB shall support the needs assessment described in Section 5 below by providing input on needs and priorities of people with physical and/or sensory disabilities in Northumberland County. These data should be a comprehensive update of the Triennial Needs Assessment performed in 2003 but following the methodology of Appendix B and provide input as required to support the planning described in Section 5 below.

e. Emergency Services

With an aging population it will be increasingly difficult for the volunteer emergency services to meet the needs of the citizens of the County. See Section F.1 for a discussion of this issue.

3. Other Social Services Programs

Below is a listing of other programs administered by the Northumberland Department of Social Services. Some of these also assist the elderly and persons with disabilities but that is not necessarily their primary focus. The Northumberland Department of Social Services provides a broad range of services to the citizens of the County,

(a). TANF - Temporary Assistance for Needy Families Program and TANF-UP

TANF provides temporary financial assistance to families with children who have financial need. The TANF program is the cornerstone of Virginia's Welfare Reform initiative. The TANF program initiative has time limited benefits, a strong work requirement, and a social contract that sets out the responsibilities of and expectations for recipients of public assistance and the government.

(b). Aid to Dependent Children - Foster Care (AFDC-FC)

Financial aid is provided for the care of children eligible for assistance that have been removed from their homes and placed in custody of the Department of Social Services.

(c). General Relief (GR)

The General Relief program provides limited financial assistance for those appealing

Supplemental Security Income, SSI, maintenance determinations. General Relief includes limited medical care for the indigent, burial of the indigent, and other emergency services.

(d). State and Local Hospitalization (SLH)

State and Local Hospitalization provides direct payment to hospitals for individuals, who do not qualify for Medicaid and who are unable to pay for required medical services. The payments are limited to the total of the County's funding allocation from the State. This program will pay for limited hospitalization, outpatient surgery, and emergency room visits. Inpatient and outpatient doctor visits are not covered.

(e). Medical Assistance (Medicaid)

The federal/state-financed Medicaid program provides medical care for specified needy persons. The Social Services Department determines eligibility for Medicaid, according to criteria established by the Department of Medical Assistance Services, which administers the program.

Medicaid makes direct payments to health care service providers for eligible individuals and families who are unable to pay for needed medical services. Medicaid pays for a variety of medical services including prescription drugs, doctor visits, nursing facility care, and hospital care.

(f). Family Access to Medical Insurance Security (FAMIS)

The FAMIS program provides health insurance for eligible low-income children who are not eligible for Medicaid. The eligibility determination for this program was transferred in August, 2002, to a State Central Processing Unit. However, the option for applicants again to go through the local departments of social services was reinstated to better facilitate the process, and the program has been renamed Family Access to Medical Insurance Security (FAMIS).

(g). Food Stamp Program

The federal Food Stamp Program supplements the food budgets of low-income households to help assure needy persons a nutritionally adequate diet. Eligibility is determined by financial need, household size, and non-financial criteria such as student and work registration.

(h). Fuel/Cooling Assistance Program

Eligible low-income households receive federal assistance with their home heating bills.

Faulty or hazardous heating systems may also be repaired in households eligible for fuel assistance. Eligible low-income households that also have a member meeting age or medical vulnerability criteria may receive assistance with home cooling bills. Air conditioners or fans may be repaired or provided under certain conditions.

(i). Child Protective Services

This program receives and investigates complaints and reports concerning the abuse, neglect, or exploitation of children, and provides preventive action where there is a threat of harm. Services are available 24 hours a day to handle emergency situations.

(j). Foster Care Services for Children

The Foster Care program provides counseling, supervision, and supportive and rehabilitative services to, or, on behalf of children who are committed or entrusted to local boards of social services.

(k). Employment Services

The Employment Services program provides services to recipients to assist them in retaining, regaining, or securing full or partial employment.

(l). Day Care Services for Children

This program provides services of day care in approved facilities for a defined portion of a 24-hour day, to enable parents to be employed or to provide services when they must be away due to an emergency. Services may also be provided for children needing protection.

(m). Other Social Work Services

- 1) Adoption Services - provides services and registries to bring together children and families for permanent placements.
- 2) Family Services - provides counseling, educational information, monitoring (for protective services cases), and referrals to other resources for families with special needs.
- 3) Interstate foster care - provides monitoring and supportive services for foster children placed in our locality by another state.
- 4) Home Studies - provides assessments of suitability of homes for placement of children when ordered by the court.
- 5) Emergency Services - provides assistance with food, shelter, utilities, and clothing in crisis situations; assists the Red Cross in the operation of shelters.
- 6) Other Social Services Programs

(n) Child Abuse and Sexual Assault Investigation Team

A unique program in Northumberland County is the Child Abuse and Sexual Assault Investigation Team that consists of the Office of the Sheriff, the Office of the Commonwealth Attorney and the Department of Social Services. These three organizations have put together a team of trained investigators and social workers that work together to investigate and resolve claims of child abuse.

(o). Community Support

Northumberland County is very fortunate to have a strong network of support for a variety of emergency services and human services from non-profit organizations and volunteers. Some of the support comes from individuals and small informal groups, some is from individual churches or other structured community organizations, and some is from networks of churches, such as the Interfaith Service Council and Church Resource Services.

Some of the emergency services provide individuals in crisis in the community assistance with utility bills, food, clothing, or rent. The Department of Social Services relies heavily on collaboration with community organizations to assist with these services when the individuals do not qualify for government funded programs for such assistance.

Some groups provide summer or after school programs for youth while they are not in school and have no other structured supervised settings. Some provide organized recreational activities available on a county-wide basis. Some work to improve housing, water and sanitary systems or other conditions that affect quality of life.

Northumberland County is, also, very fortunate to have a very active and capable chapter of the American Red Cross, managed and operated entirely with volunteers, who operate emergency shelters for the County in addition to other types of disaster assistance. In addition, the County's emergency services response for fire and rescue is provided by all volunteer groups.

4. Housing

Affordable housing is a major issue in the County. There is a shortage of safe, healthy living places for low income persons in our area. There are still a large number of homes in the County without indoor plumbing and a number of homes where the houses are literally falling down around the people living in them. While not all are in poor repair, over a third of the 8,000 houses in the County are over 40 years old.

Currently there are limited resources available to assist low income persons with housing problems. There are various volunteer groups that help with repairs, the Bay Aging Agency provides an indoor plumbing program, the SAIF Water Program helps with wells and water; Habitat for Humanity helps build new homes and the Northumberland Department of Social Services provides "Section 8" housing assistance.

The Section 8 program consists of two elements: rental housing subsidies for eligible low-income families within the allotment of vouchers provided to the locality by the Virginia Housing Development Authority (VHDA); and self-sufficiency services which provide assistance in developing and achieving plans of self-sufficiency that include goals of transitioning from subsidy assistance to financially independent housing. As a further element of assistance, the County should provide some property tax relief for low income households.

A needs assessment of the adequacy of the housing in the County should be performed in order to quantify the problem as a first step in establishing a more comprehensive community plan to address the problem. (See Section 5. below.) Once the needs assessment is complete, the County may qualify for a Virginia Community Development

Block Grant, VCDBG, for housing rehabilitation. Housing activities are eligible for VCDBG assistance to improve the living conditions of low- to moderate-income (LMI) persons. VCDBG funding may be used to rehabilitate LMI-occupied housing units or in support of the development of new housing units which will be occupied by LMI persons.

In addition, once the housing needs analysis is complete, the Board of Supervisors should establish an affordable housing policy, strategies and implementation program. The objectives should be to support affordable housing for those who live and/or work in the County. In particular, the County should provide guidance, resources and incentives to the nonprofit and for-profit development and financing communities to increase the supply of affordable housing (both rental and homeownership) for households with incomes below the median income of the County. "Affordable Housing" in general terms means safe, decent housing where housing costs do not exceed 30% of the gross household income. In addition affordable housing is defined, for purposes of the proposed policy as those houses affordable to the forty percent of the County population that have household incomes at or below 80% of the County median income.

This policy and related strategies and recommendations should be developed by a proposed Northumberland County Housing Committee or equivalent organization to be established after completion of the needs assessment.

5. Comprehensive Community Health, Housing and Social Services Plan and Implementation Strategy

The topics described in paragraphs 1 - 4 above (Health Services; Provisions for the Elderly and Persons with Disabilities; Other Social Services Programs; and Housing) all relate to the "community" and the needs of the people as opposed to the physical attributes of the County and how the County develops and uses its physical assets as is detailed in the other chapters and sections of this Comprehensive Plan..

As such, a *Comprehensive Community Health, Housing and Social Services Plan and Implementation Strategy* (Community Plan) needs to be developed as a complementary Plan to the Comprehensive Plan and follow a similar public hearing and community involvement process as was used for this Comprehensive Plan, but with a more proactive community involvement as discussed in Appendix B. The Community Plan, when approved by the Planning Commission and by the Board of Supervisors would be appended to the Comprehensive Plan as an amendment..

This Community Plan is based on a typical community assessment process and model used by communities nationwide that identifies resources, services, and gaps in services. It includes "well-being" factors (when compared to other localities) to determine the community's relative health and welfare. Finally it determines what additional or

reinforced services are needed, what should be the priorities and a plan of action to improve the situation.

The typical community assessment process is a lengthy process, and it is expected to take several months to carry out the process correctly. The usual approach is to assign responsibility to the Community Policy and Management Team (CPMT) or for the Board of Supervisors to name a Primary Contact Person, PCP. It should be noted that this task is broader than the normal duties of the Director of Social Services which is why the Chair of the CPMT or a PCP is recommended.

Northumberland County has developed needs analyses and performed community assessments in the past but they have not been as comprehensive as is proposed herein. They typically focus on specific problems such as the recent study on Promoting Safe and Stable Families.

The Virginia Department of Housing and Community Development has a Community Development Block Grant program which can be used as one source to provide funds to support the community needs assessment program that is proposed. Alternatively, the same process using all volunteer labor reporting to a County or Social Services official such as the process currently used to update this Comprehensive Plan can be used.

Appendix B to this Comprehensive Plan presents in more detail the proposed process for developing the Community Plan.

H. STRATEGY FOR DEVELOPING PUBLIC SERVICES

1. Public Services Reference

The following table provides a quick reference to the public services covered in this Chapter of the Comprehensive Plan. Because services are provided by a combination of different public and private sources, planning for their development must be done in coordination with several other agencies.

The County is directly responsible for providing resources for construction of schools, county offices, sewage disposal facilities, solid waste stations, reservoirs and public recreational sites. The State provides for highways and support services through the Health Department and VPI Extension. Still other services (emergency services and recreation are in this category) are provided by private enterprise or not-for-profit organizations. The strategy for implementing the public elements of the Comprehensive Plan involves coordinating County projects with those provided by the State and other

groups, private or public.

SUMMARY - PROVIDERS OF SERVICES	
Type of Facility	Agency or Level of Government Responsible for Providing Service
Highways, Public	Primary Highways: VDOT ⁴ , District Engineer's Office, Fredericksburg
	Secondary Roads: VDOT, County Resident Engineer's Office
	Bus Service: Bay Transit
Recreational Facilities	Recreational Programs: Northumberland YMCA
	State: Construction and operation of public boat ramps
	Commercial marinas; charter fishing boats; campgrounds; community associations
Water Supply	Community water systems: public and privately owned and operated
Sewage Disposal	Private septic tank except in Reedville, Fleeton and Callao where public sewerage systems are operated
County Office and Operational Buildings	County: Administrator's office
Schools	Northumberland County School Board
Social Services	Northumberland Department of Social Services
Health Services, Septic Systems	Health Department of Northumberland County
Emergency Services	Volunteer Rescue Squads, Fire Companies, County Officials, Sheriff
Solid Waste Services	Private Contractor

⁴Virginia Department of Transportation