Appendix V

Chowan River Basin Workshop Summaries



CHOWAN RIVER BASIN WORKSHOPS

North Chowan Workshop Ahoskie, North Carolina March 22, 2001

These questions were purposed to the participants:

- 1: WHAT ARE THE MAIN ISSUES TO WATER QUALITY IN THE CHOWAN RIVER BASIN?
- 2: <u>WHERE</u> ARE THE PROBLEM AREAS OR WATERS AND WHAT <u>RECOMMENDATIONS</u> DO YOU HAVE FOR ADDRESSING THESE PROBLEMS/WATERS?
- 3: <u>WHO</u> SHOULD BE INVOLVED IN ADDRESSING THE PROBLEMS (i.e., local agencies or organizations, etc.)?

ISSUES	WHERE	RECOMMENDATIONS	WHO
 Overstocked with Canadian Geese 	♦ Lots of areas in	 Institute resident goose hunting season 	 NC Wildlife Resources
	Merchant Millpond		Commission (WRC)
	were cleared		
◆ Explore non-bulk head (bio-engineering) bank	◆ Development area –	♦ Explore, look into alternatives	♦ NCSU
stabilization	streams and sound		♦ CAMA
♦ Identify if farming Best Management Practices	♦ Basinwide	♦ Continue forest BMPs & forest practice guidelines	♦ NC Forest Service
(BMPs) have improved water quality		♦ Monitoring	◆ DWQ
♦ Erosion/nutrient load at points between rivers on		♦ Continue cost share programs and fine tune them	◆ NRCS
north side of Albemarle Sound		♦ Provide tax credit for no-till equipment - expand and	♦ Soil & Water
• Sediment into rivers north and south of Albemarle		increase	♦ FSA
Sound via drainage ditches			♦ NC State Government
 Restore fish spawning habitat 	 Pollack Swamp and 	♦ Implement restoration	 Wetlands Restoration
	other areas		Program (WRP)
			♦ NCSU Stream
			Restoration

◆ Failing septic systems	♦ Basinwide	◆ Education	♦ Health Department
• State of NC is forcing municipalities to install land	♦ High density areas –	 Continue to look at alternative systems 	 NC Cooperative
application sites without much support for success	trailer parks	 Provide financial assistance for repairs 	Extension Service
or flexibility to make it work.	BasinwideMore in upper part of	 Require pumpout (i.e., every 5 years) Be sure future sitings are appropriate locations (i.e., 	(NCES)
 Individual residential septic tank systems and their impacts to water quality 	• More in upper part of basin	• Be sure future strings are appropriate locations (i.e., look at soil compatibility)	♦ County Government
Run-off in developed areas	Uasin	Education to homeowners & developers	♦ NCES
 Stormwater from parking lots, farming operations (sediment, nutrients, pesticides, hog lot – sewage treatment) 			♦ Ag Service
Development	♦ Chowan County	♦ Develop sound land use plans	♦ Local
v Development	 ♦ Edenton 	 Conduct county inspections on permits 	 Division of Coastal
	 Hammonds Point 	· conduct county inspections on permits	Management
			♦ County
◆ Status of Virginia's impact to NC waters	♦ Virginia	♦ Continue "pressure" to get memorandum of	♦ Legislators
	-	agreement with Virginia signed	◆ VA Government
		♦ Land apply municipal waste (i.e., spray irrigation	Legislature
		instead of discharge)	◆ EPA
		 Need communication and cooperation 	◆ DENR
			 VA Dept of Conservation
 Wetland mitigation – mosquitoes 		 Mitigation should be site-specific 	♦ NCDOT
◆ Requiring double acreage replacement in a			♦ WRP
region that is already predominantly swampy			
• Buffers between development at waterside and		◆	◆
waters			
◆ Not allowing a landowner to trim trees within 50 feet of river even when the river is 2 miles wide			
and water temperature is not affected.			
 Find a way to the end of CF Industries 		◆	•
groundwater problem		•	•
◆ International Paper Industries: during peak	♦ Chowan River	♦ Reduce nitrogen and phosphorus in discharge	♦ DENR
discharge – the water turns brown and fish move	• Chowall River	 Increase monitoring 	♦ VADCR
out		 Need status and trends document of Chowan River 	· · · · · · · · · · · · · · · · · · ·
♦ Insufficient data relayed to citizens		♦ Conduct education with hard science in layman's	
 Insufficient problem identification 		terms with information on yield impacts	
♦ Insufficient post-BMP monitoring			
♦ A farmer continually plows his fields closer and			
closer to the road, until the field reaches the road.			
This area causes erosion and flooding, etc.			
◆ Don't place responsibility/blame on a single group			
(i.e., farmers) for complex water quality problems			
(i.e., nutrient loading)			
◆ Reduce phosphorus use by farmers (i.e., use low-			
phosphorus fertilizer)			
• Need for more information and advice on how to			
reduce nutrient inputs (i.e., field borders)			

♦ Poorly performing sanitary treatment plants due to		◆ Site outfalls appropriately	♦ WRP
them being undersized		 Implement vegetated filters 	♦ Locals
 Sedimentation/turbidity 		 Use sedimentation ponds 	
♦ Nutrient source loading – What are the sources?		♦ Use constructed wetlands	
◆ Industry, municipality, agriculture should cross		 Develop regulations 	
education to make better solutions!		♦ Promote education	
		♦ Increase staffing	
		♦ Increase enforcement	
		◆ Institute local watches (i.e., Stream Watch)	
◆ Groundwater usage vs. Chowan River surface	•	◆	◆
water			
♦ Out board motors	 Chowan River 	◆ Learn more about this issue – especially EPA's new	♦ EPA
♦ Increased traffic – jet skis impacts		emission standards	
		♦ Education	



CHOWAN RIVER BASIN WORKSHOPS

South Chowan Workshop Edenton, North Carolina March 27, 2001

These questions were purposed to the participants:

- 1: WHAT ARE THE MAIN ISSUES TO WATER QUALITY IN THE CHOWAN RIVER BASIN?
- 2: <u>WHERE</u> ARE THE PROBLEM AREAS OR WATERS AND WHAT <u>RECOMMENDATIONS</u> DO YOU HAVE FOR ADDRESSING THESE PROBLEMS/WATERS?
- 3: <u>WHO</u> SHOULD BE INVOLVED IN ADDRESSING THE PROBLEMS (i.e., local agencies or organizations, etc.)?

ISSUES	WHERE	RECOMMENDATIONS	WHO
 Over-fertilization from the residential community Nutrients Lawn fertilization Commercial/lawn care and golf course upkeep 	 Future development Basinwide 	 Educate Institute buffers between lawn and ditch 	 NCES Some regulators DWQ?
 Septic systems and municipal systems Poor soils for septics Affect rural wells Health concerns Lack of information distributed on how to operate systems During home purchase – no paperwork relay between owners 	◆ Eastern NC	 Distribute information at time of permitting on maintenance Survey existing geographic areas of problems – use soil survey map as indicator Ensure broader distribution of information especially to rural areas Give incentives for septic upkeep (pump-out) (i.e., Nags Head's program) Provide cost share opportunities for maintenance Allow alternative systems Educate on maintenance and operation 	 ◆ Health Department ◆ NCES ◆ Local government

• Waste water treatment systems	•	•	•
Poor compliance			
◆ Land application limitations			
♦ Likely high levels of violations			
◆ Lack of resources to do good operation and maintenance			
 Lack of coordination 			
♦ Broken hydrants?			
• Get info on waters that are not currently monitored	 Non-monitored sites 	 Work out monitoring program logistics/glitches Need more data 	◆ DWQ
◆ Livestock runoff and waste	 Poultry and hog operations 	♦ Address – work with the animal operations	♦ DWQ
♦ Delisting on 303(d) list	•	◆ Revisit	♦ DWQ
♦ Too many geese	♦ Merchants Mill Pond	♦ Educate	Fish and Wildlife
	and other areas	 Make it less attractive to the geese 	Service
		♦ Hunting	♦ Wildlife Resource
			Commission
			 County Government
 Sedimentation due to agriculture 	♦ Basinwide	♦ Encourage BMPs	♦ NRCS
♦ Forestry		 Encourage Conservation Reserve Enhancement Program 	 Soil and Water
♦ Development		conservation till farming	Conservation District
		 Seek alternatives to bulkheads (i.e., vegetative 	
		stabilization, etc.)	
 House Bill 515 Nitrogen limit for discharge to nutrient sensitive 	*	 Revisit House Bill 515 language 	◆ Legislature
waters			
• Needs to address nitrogen forms (i.e., is the			
nitrogen bioavailable?)			
◆ Nucor	•	 Monitor above and below plant discharge 	♦ DWQ
♦ Unrecycled gray water	♦ Basinwide	◆	 County Health
			Department
♦ Land use – conversion	◆	◆	♦ County
			♦ DWQ
 Permitted dischargers 	◆	◆	♦ County
			♦ DWQ
♦ Salinity – over use of water	◆	◆	♦ County
			♦ DWQ
 Interactions with Virginia 	◆	◆	♦ County
			♦ DWQ
♦ Agriculture	 Lift Ag Cost share 	◆	 Soil and Water
 Agriculture community is: 	funding freeze		Conservation Division
♦ Working hard	 Educate on land 		for Ag Cost Share
 Has high participation 	application rates and		Funds
♦ \$\$ is frozen due to the state	effective locations,		♦ NCES
 Farmers are reducing nutrients 	disposal, amount of		♦ Master Gardener's

 Agriculture is an easy target for management Agriculture is blamed for residential 	applications ♦ Foster formal training	Program ♦ Dept of Agriculture
community's impacts		Pesticide Division
 Increased growth and development 		
♦ Stormwater runoff		
 More restrictions on agriculture sector and there 		
is an exam with fee requirements		
◆ Ignorance on where water flows – (i.e., runoff		
flows directly to storm drains)		