

MINUTES

POLICY COMMITTEE
June 11, 1991
Chesapeake, Virginia

CALL TO ORDER

Secretary William Cobey, Co-chair of the Policy Committee, called the meeting to order at 11:10. The attendees are listed in Attachment A. Mr. Cobey thanked the Hampton Roads Planning District Commission (HRPDC) for hosting the meeting. Mr. Arthur Collins, Executive Director for HRPDC, welcomed the group and extended HRPDC's willingness to assist North Carolina in improving the environmental quality of the Albemarle and Pamlico Sounds.

CHESAPEAKE BAY PROGRAM

Mr. Keith Buttleman, Administrator for the Virginia Council on the Environment, expressed Virginia's interest in working with North Carolina on the Albemarle-Pamlico Estuarine Study effort. He stated that Virginia recognizes the relationship Virginia bears to North Carolina on the Albemarle/Pamlico system, which is similar to Pennsylvania and Maryland's relationship with Virginia with respect to Chesapeake Bay.

Buttleman reported the Chesapeake Bay clean-up effort involves three states, federal/state agencies, committees, private organizations and interested individuals. It operates under "voluntary regionalism" in that all parties are involved voluntarily. In 1983, Virginia, Maryland, Pennsylvania, the District of Columbia, EPA and the Chesapeake Bay Commission entered into a general agreement which said the parties agreed to work together to bring the Chesapeake Bay back to health. In 1987, EPA, the District of Columbia, the State of Maryland, the Commonwealths of Pennsylvania and Virginia, and the Chesapeake Bay Commission entered into a formal agreement establishing specific commitments and timetables for action for protecting and restoring the Chesapeake Bay to a more productive state. Funding for the Chesapeake Bay effort comes primarily from the various states with additional funding from EPA. The Council on the Environment coordinates all the Virginia agencies and programs that feed into the Chesapeake Bay restoration program. It also coordinates Virginia's participation in the Albemarle-Pamlico Estuarine Study. Buttleman noted that Virginia recognizes the role it plays in the Albemarle-Pamlico systems and its responsibilities in dealing with clean-up efforts. He reported that Secretary Elizabeth Haskill asked him to assure North Carolina that the Governor of Virginia and Virginia's agencies are eager to continue participating in APES and are willing to share in the efforts to restore the A/P system.

Mr. Brewster Brown asked if a similar agreement would be helpful between North Carolina and Virginia. Buttleman suggested that appropriate parties from both states explore the concept of an agreement between North Carolina and Virginia with preliminary points that could be agreed upon initially and then develop more specifics.

CHESAPEAKE BAY PRESERVATION ACT

Mr. John Carlock of the Hampton Roads Planning District Commission reported that the Chesapeake Bay Preservation Act was enacted by the Virginia General Assembly in 1988. The Act established a cooperative state and local government program to protect water quality in the Chesapeake Bay and its tributaries through improved land use management. Local governments must incorporate state developed regulations into their Comprehensive Plans, Zoning, Subdivision and other land development ordinances. The Chesapeake Bay Preservation Act will affect the way in which many landowners can use their land. The Act applies to 46 cities and counties and 43 towns which border on tidal waters. A nine member citizens board appointed by the Governor oversees the implementation of the Act and is required to develop regulations for the designation of Chesapeake Bay Preservation Areas and for the management of land use in those areas. Local governments have until November 1991 to delineate Chesapeake Bay Preservation Areas and to adopt programs which implement the criteria specified in the regulations. Carlock further explained some of the regulations. Carlock noted that the program is implemented at the state level; local governments have a specific mandated goal in carrying out the program. Planning District Commissions do not have a formal legal role according to the Chesapeake Bay Preservation Act.

Many Virginian's did not realize the degree of drainage from Virginia into the Albemarle and Pamlico Sounds. The Hampton Roads Planning District Commission has attempted to provide a mechanism for involvement between the two states. The HRPDC, with A/P funding for FY 91-92, plans to continue public education efforts and information exchange and to begin the process of developing a management plan for the part of the Hampton Roads Planning District which drains south into the Albemarle and Pamlico Sounds.

CONSIDERATION OF MINUTES

Mr. Don Bryan made a motion to approve the March 6 Policy Committee minutes as distributed; Ms. Mike Gantt seconded the motion which passed unanimously.

Cobey reported that Col. Suerman of the Army Corps of Engineers will be replaced as District Supervisor during the summer and his replacement will be asked to serve on the Policy Committee.

COMMITTEE REPORTS

Technical Committee

Mr. Bowman Crum, Co-chair of the Technical Committee, briefly summarized the actions taken by the Technical Committee at its May 8 meeting (see May 8, 1991 Technical Committee minutes).

Regarding efforts to obtain EPA funding for Dr. Costanza's proposal on valuation of wetlands, Mr. Ray Cunningham looked into what is being done at the national level and the possibility that EPA funds might be available for this type of work. EPA is not funding any research of this type. Mr. Larry Saunders was asked to provide information being developed by the CORPS on a similar project in New Orleans.

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Citizens' Advisory Committees

Brown reported the two CAC's met jointly on April 25 in Edenton and probably will continue joint meetings. Much time was spent during the April CAC meeting discussing the Financial Planning and Steering Committees for the CCMP development. The CACs' recommendations were presented to the Technical Committee on May 8. Brown noted that the CAC document "Blueprint for Action" has been finalized and distributed.

Director's Report

Mr. Randy Waite explained the historical budget (Attachment B) prepared by the Study Office. The budget represents the breakdown of funds received and expended by the Study since 1986. He explained that in FY 1987-88 and FY 88-89, ~\$11,000 state dollars reverted to the state's general fund. In FY 90-91, the Study reduced its budget by ~\$3,100 to comply with the Department's mandatory reductions which resulted from the state's budget shortfall. Since 1986 indirect charges of ~\$34,000 have been assessed to the Study (overhead paid on the Study's federally salaried positions). Waite reported the historical budget compilation indicates there are ~\$58,000 unobligated federal funds available plus ~\$125,000 state funds for July through September. Brown asked that the budget information be shared with the CAC's. Waite suggested presenting it at the next CAC meeting.

Waite summarized the Cooperative Agreement Budget Breakdown for FY 91-92 (Attachment C). Negotiations are still ongoing for work proposed by DEM (Baseline WQ Monitoring), Noga (Shell Disease in Blue Crab), and Ambrose (Literature Review of Effects of Trawling on Benthic and By-Catch). Costanza's project has been designated for possible funding with the unobligated funds. The Committee felt this project should be investigated further and instructed Waite to contact Costanza to determine what information can be obtained from this investigation. Waite also reported that three additional projects will be funded by the unobligated federal funds:

- (1) \$2,000 to assist Dr. Stan Riggs (ECU) complete a project entitled "Sediment Quality Survey of Northern Currituck Sound and North Landing River";
- (2) \$10,000 to Dr. Robert Holman (WRRI) for a project entitled "An Evaluation of Land Use Changes within the APES Area Utilizing the GIS"; and (3) a project by Dr. Roger Rulifson to complete his work on the "Abundance and Viability of Striped Bass Eggs Spawned in the Roanoke River in 1991", approved for funding during FY 91-92 but which needs early funding to be completed during the summer.

Waite attended one day of the NEP Directors' meeting in San Diego. The Puget Sound CCMP has been distributed to the PC. A Financial Planning Committee list was approved by the Technical Committee; however, more people can be added as needed. The Apogee Consulting firm, contracted by EPA to provide financial planning assistance to the NEPs, will hold a Financial Planning Seminar on June 12 in Greenville for the A/P Study.

Ms. Jennifer Steel reported that the major changes in the Status and Trends Report since January amount to basic structural changes in the organization of the chapters and general information updates and revisions. The Technical Committee instructed Steel to create a final Executive Summary by merging the

original executive summary with the original public document. The new Executive Summary incorporates the introductory material from the public document, the essence of the "Findings" document, as well as material which allows it to be a true executive summary of the entire Status and Trends Report. There are minor editorial changes to be made but the report is ready for Policy Committee consideration. Steel reported on the status of information acquisition projects. She also reported she is compiling summaries of the technical acquisition and public participation projects into one document to track APES accomplishments since the program's inception.

Mrs. Joan Giordano reported on the public participation activities for the Study (Attachment D). The Researchers' Review Workshop will be held on October 11 and the Annual Meeting on October 12, both in Manteo. Tentative plans are to create a festival format for the Annual Meeting. After discussing the problems encountered by the Pamlico-Tar River Foundation in mailing the June issue of the Study's newsletter, Costlow moved to increase the Pamlico-Tar River Foundation's contract by \$4,000 for the extra cost incurred for postage. Gantt seconded the motion which passed.

There was more discussion regarding the upcoming annual meeting and how to boost attendance. Costlow suggested producing a video tape using the GIS system and the Carteret County land use projections to demonstrate how counties may change by the year 2010. The video and the GIS system could be available as an exhibit at the annual meeting.

FINAL STATUS AND TRENDS REPORT

In discussion regarding updating the Status and Trends Report and COMP, the Committee felt both documents should be updated as warranted. Bryan made a motion that the Policy Committee approve the Status and Trends with the amended Fisheries Chapter subject to reopening other chapters for updated information. Brown seconded the motion which passed.

ENVIRONMENTAL GOALS

Waite noted minor modifications made to the original environmental goals. "The impact of human population growth and development on the estuarine system" has been added with a goal "to ensure that land use changes have minimal environmental impact." The Technical Committee approved the "target" environmental goals (Attachment E). Costlow requested that the goal under "impact of human population..." be changed to read "to ensure that land use changes have minimal adverse environmental impact." Queen made a motion to accept the target environmental goals as amended. Costlow seconded the motion. Gantt asked to amend the motion to include changing the last goal under "Habitat Loss" to read "Achieve no net loss of wetlands productivity and function and pursue opportunities to increase wetlands productivity." The amended motion passed.

Bryan made a motion that the Policy Committee direct the Technical Committee to produce by the December 4 PC meeting quantitative objectives that will achieve the target goals. Saunders seconded the motion. The motion passed.

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COMPREHENSIVE CONSERVATION MANAGEMENT PLAN

Waite briefly reviewed the proposed schedule and process for completing the CCMP. After discussing the process for developing the CCMP and the staff required to accomplish this task, Costlow made a motion to accept the CCMP development schedule and the expenditure of funds for contract services for two additional staff members to assist the program staff in the development of the CCMP. Dr. Bud Cross seconded the motion which passed.

Waite reviewed the concept behind the development of the CCMP Steering Committee. The Technical Committee discussed this item at length during their May 8 meeting and have recommended that the proposed 40-member committee be reduced to a smaller (~10) committee for better manageability. Brown explained the CAGs recommendation that a 40-member committee be organized. Following discussion on the steering committee, Costlow moved that the Program Manager draw upon the expertise available in the existing committees as well as outsiders to develop the CCMP as shown in the schedule. Cross seconded the motion. The motion passed. Brown asked that Giordano notify the CAGs of the action taken on the steering committee.

Costlow reported that Representative Bruce Ethridge suggested that the proposed A/P Study Legislative Liaison Subcommittee work through the Environmental Review Subcommittee for the General Assembly. However, he suggested this activity be delayed until after the General Assembly solves the state's budget crisis.

Brown made a motion that the Co-chairs of the Policy Committee seek an agreement between Virginia and North Carolina regarding the A/P system modeled after the Chesapeake Bay Agreement. Bryan seconded the motion which passed.

The next Policy Committee is schedule for August 29 following the Roundtable on August 28 with Beaufort as a possible location.

The Policy Committee went into Executive Session.

ADJOURNMENT

The meeting was adjourned at 4:10 p.m.

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POLICY COMMITTEE ATTENDEES - JUNE 11, 1991

ATTENDEESAGENCY

RANDALL G. WAITE	APES
JENNIFER STEEL	APES
JOAN GIORDANO	APES
DON BRYAN	POLICY COM./MAYOR-NAGS HEAD
LARRY SAUNDERS	TECHNICAL COM./CORPS OF ENGINEERS
JOHN D. COSTLOW	POLICY COM./DUKE MARINE LAB
BREWSTER W. BROWN	POLICY COM./ACAC
WILLIAM H. QUEEN	POLICY COM./ECU
ANN DEWITT BROOKS	TECHNICAL COM./VA COUNCIL ON THE ENVIRONMENT
KEITH J. BUTTLEMAN	VA COUNCIL ON THE ENVIRONMENT
MIKE GANTT	POLICY COM./US FISH & WILDLIFE
BOWMAN CRUM	TECHNICAL COM./EPA REGION IV
BILL COBEY	POLICY COM./NC DEHNR
KATHY NORRIS	APES
ART COLLINS	HAMPTON RDS PLANNING DIST. COMM.
JOHN CARLOCK	HAMPTON RDS PLANNING DIST. COMM.
JAMES KIREY	CHESAPEAKE
LEE DYDIN	CHESAPEAKE
MIKE COODING	WVEC-TV
ERNIE CARL	TECHNICAL COM./NC DEHNR
RITA SWEET	VA BEACH
KAREN MAYNE	US FISH & WILDLIFE SERVICE
BOB JACKSON	VWCB-TRO
CARL GARRISON	VA DEPT. OF FORESTRY
BRYAN DAVID	ISLE OF WIGHT
BILL WICKHAM	HAMPTON RDS PLANNING DIST. COMM.
TRACY PATRICK	VA BEACH
TOM STROUD	PAMLICO-TAR RIVER FOUNDATION
FORD CROSS	POLICY COM./NOAA

Policy Committee

6-11-91

Attendee

Agency

RANDALL G. WAITE	APES
JENNIFER STEEL	APES.
Joan Giordano	APES
VON BRYAN	PC
LARRY SAUNDERS	Corps of Engr.
John D. Costlow	APES - Pol. Comm.
Brewster W. Brown	APES ACAC
William H. Queen	APES - Pol. Comm.
Ann Whitcomb Cross	VA/COE
Keith J. Butleman	VA/COE
Tuke Gantt	APES - Pol. Comm.
Bowman Crum	USEPA-Region IV
BILL CORBEY	N.C. DEPT. ENR
Kathy Dwyer	AP Staff
ART COLLINS	HRPDC
JOHN CARLOCK	HRPDC
James Kirby	Chesapeake
Lee Dydin	Chesapeake
Mike Gooding	WVEC-TV
Ernie Carl	APES Tech. Comm.
Rita Sweet	VA Beach
KAREN MAYNE	U.S. FISH & WILDLIFE SERVICE
Bob Jackson	VWCB - TRD
Carl Garrison	Va. Dept. of Forestry
Bryan David	Isle of Wight
Bill Wickham	HRPDC
Tracy Patrick	(Intern. at Envir. Management, VA Beach)
Tom Stroud	PTRF

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Attendee

FORD CROSS

Agency

NOAA

PC DA	F.WK1 CODE	DESCRIPTION	EPA CREDIT	DEBIT
86-87	CX-813675	EPA-EHNR	\$300,000	
		ADMIN 3/4		\$51,422
		ADMIN 1/4		\$21,394
		CGIA		\$40,000
	C-1595	NCCF		\$4,587
	M-1085	BROWER		\$5,000
86-87	TOTAL		\$300,000	\$122,403
87-88	CX813675	EPA-EHNR	\$225,302	
		ADMIN 3/4		\$102,066
		ADMIN 1/4		\$51,070
		CGIA		\$213,400
		HYDE CO.		\$10,000
		DMF		\$11,456
		DMF		\$34,934
	C-1643	PEARCE		\$66,361
	C-1698	SCI/DUFFY		\$19,300
		DECREASE C-1698		(\$5,240)
	C-1678	ECU/RIGGS		\$6,000
	C-1671	ECU/SMITH		\$11,500
		DECREASE C-1671		(\$683)
	C-1649	ECSU/CARSON		\$7,000
		INCREASE C-1649		\$1,500
		DECREASE C-1649		(\$587)
	C-1639	WRRI/STEWART		\$15,750
	C-1669	VERSAR		\$24,897
		REVERSION		\$5,761
	CX814567	EPA-ECU	\$99,534	
	C-1672	EHNR-ECU		
		BRINSON		\$27,475
		TSCHETTER		\$39,417
		DAVIS		\$37,881
	CX814568	EPA-DUKE	\$48,957	
	C-1674	EHNR-DUKE		
		SUTHERLAND		\$51,534
	CX814569	EPA-NCSU	\$48,414	
	C-1673	EHNR-NCSU		
		SMITH, K		\$50,963
	CX814570	EPA-UNC	\$132,447	
	C-1677	EHNR-UNC		
		PAERL		\$47,395
		KUENZLER		\$43,739
		WELLS		\$30,644
		OKUN		\$17,640

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	CX814571 C-1675	EPA-NCCF EHNR-NCCF KENNEDY	\$30,091	\$31,675
	CX814572 C-1676	EPA-PTRF EHNR-PTRF MONITORING	\$13,523	\$14,235
	DW13932658	EPA-NMFS THAYER	\$73,841	\$73,841
	DW14932608	EPA-USFWS COLLIER	\$12,933	\$12,933
		USGS - EHNR USGS		\$190,470
87-88	TOTAL		\$685,042	\$1,244,328
8	CX813675 C-1710	EPA-EHNR HYDE CO DMF ECU/RULIFSON DECREASE C-1710	\$10,290	\$10,000 \$3,720 \$21,130 (\$43)
88-89	CX815402 C-1739 C-1738 C-1740 C-1737 C-1736 C-1741 C-1719 C-1708 C-1759 C-1793 C-1703 C-1712 C-1743 C-1789	EPA-EHNR ADMIN 3/4 ADMIN 1/4 CGIA PARKS/ROE DOA PTRF INCREASE C-1738 PTRF PTRF INCREASE C-1737 ECSU WILLARD PTRF DECREASE C-1719 RTI ECU NCSU/SMITH** ECU/RIGGS** DECREASE C-1703 TURSII** OKUN** DUFFY** DECREASE C-1789 REVERSION	\$600,176	\$124,661 \$56,763 \$164,000 \$59,500 \$18,000 \$17,140 \$605 \$21,540 \$14,550 \$750 \$13,293 \$30,275 \$53,900 (\$1,184) \$32,657 \$40,885 \$3,414 \$34,968 (\$115) \$3,000 \$1,000 \$5,245 (\$2,209) \$5,322

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CX815399	EPA-EHNR	\$262,500	
	DWS/BERTIE		\$37,500
	DWS/MMPOND		\$175,000
C-1794	VA SW		\$93,750
CX815401	EPA-EHNR	\$197,000	
	TEDDER		\$210,169
CX815403	EPA-ECU	\$28,725	
C-1757	EHNR-ECU		\$38,300
	RULIFSON		
CX815404	EPA-UNC	\$63,397	
	PETERSON		\$63,397
CX815407	EPA-ECU	\$13,275	
C-1758	EHNR-ECU		\$17,700
	RULIFSON		
CX815408	EPA-NCSU	\$230,079	
C-1760	EHNR-NCSU		\$60,054
	CLARK		\$83,055
	SKAGGS		\$31,099
	NOGA		\$73,096
	PIETRAFESA		
CX815409	EPA-DUKE	\$65,009	
	SUTHERLAND		\$65,009
CX815470	EPA-UNC	\$121,228	
	KUENZLER		\$71,433
	PAERL		\$49,795
DW13933409	EPA-NMFS	\$33,321	
	ENGEL		\$33,321
	EHNR-USGS		\$365,240
	USGS		
8) TOTAL		\$1,625,000	\$2,200,684
89-90	CX813675	\$8,839	\$10,000
	EPA-EHNR		
	HYDE CO		

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CE004703	EPA-EHNR	\$704,409	
	ADMIN 3/4		\$157,234
	ADMIN 1/4		\$44,824
	CGIA		\$165,000
	CGIA/NCSU		\$93,407
	DCM/SHAW		\$12,060
	PARKS/ROE		\$60,000
C-1826	HAMPTON RDS		\$23,400
C-1839	AEA		\$16,350
C-22004	RTI		\$12,501
C-1836	NCCF		\$36,500
C-22001	NCSU-LEVINE**		\$2,445
C-22002	DUKE-BROUWER**		\$5,020
	INDIRECT 86-90		\$33,830
CE004700	EPA-EHNR	\$150,000	
C-1827	GREENVILLE		\$150,000
CE004701	EPA-NCSU	\$136,645	
C-1828	EHNR-NCSU		
	NOGA		\$28,179
	NOGA		\$33,474
	HOBAN		\$59,035
	ADAMS		\$30,929
	HOBAN		\$6,200
	FODER		\$24,377
CE004704	EPA-ECU	\$63,004	
C-22003	EHNR-ECU		
	RIGGS		\$44,985
	RULIFSON		\$39,021
CE004705	EPA-ECU	\$14,719	
C-1824	EHNR-ECU		
	RULIFSON		\$19,626
CE004706	EPA-UNC	\$109,639	
C-1825	EHNR-UNC		
	PAERL		\$47,486
	KUENZLER		\$56,085
	OKUN		\$42,615
CE004708	EPA-NCSU	\$63,106	
	CLARK/STR		\$63,106
CE004733	EPA-PTRF	\$70,026	
C-1823	PTRF		
	DECREASE EPA	(\$4,291)	
	DECREASE C-1813		
	STROUD		\$30,802
	NURNBURG		\$10,689

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	PERLIC		\$46,155
DW13933409	EPA-NMFS ENGEL	\$29,612	\$29,612
	EHNR-USGS USGS		\$275,000
89-90	TOTAL	\$1,345,708	\$1,709,947
90-91	CE004703	\$884,184	
	EPA-EHNR		
	ADMIN		\$292,698
	CGIA		\$186,000
	CGIA		\$10,000
	DEM/TEDDER		\$43,946
	DMF/MCKENNA		\$34,475
	DPR/ROE		\$60,000
	DSW/CUMMINGS		\$90,000
C-14006	CARLOCK		\$22,500
C-14007	BARTHOLOWMEW		\$38,196
C-14009	NCCF/TURSI		\$35,000
C-14004	CLEARY		\$11,679
C-14008	DOA/CONOLEY		\$25,000
C-14005	WILLARD		\$30,930
C-14001	TURNAGE/SCHOOLS		\$52,430
	ECU/RIGGS**		\$2,000
	WRII/HOLMAN**		\$10,000
	ECU/RULIFSON**		\$9,007
	INDIRECT 91		\$5,000
	REVERSION		\$3,147
CE004704	EPA-ECU	\$37,696	
C-14012	EHNR-ECU STANLEY		\$50,262
CE004701	EPA-NCSU	\$0	
C-14011	EHNR-NCSU NOGA HOBAN OVERTON		\$41,362 \$53,848 \$28,691
CE004733	EPA-PTRF PRIOR GRANT	\$33,525 \$4,291	
C-14013	EHNR-PTRF STROUD MCNAUGHT		\$51,300 \$14,000
CE004853	EPA-AEA	\$16,519	
C-14003	EHNR-AEA POWERS POWERS		\$17,150 \$4,875

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CE004854 C-14010	EPA-RTI EHNR-RTI DUFFIN DODD CUNNINGHAM	\$105,398		
			\$32,834	
			\$67,732	
			\$39,965	
CE004857	EPA-ECU BLINKOFF	\$39,685		
			\$39,685	
CE004855	EPA-NCSU ROGERS	\$61,784		
			\$61,784	
DW13945517	EPA-NMFS FERGUSON	\$62,578		
			\$62,578	
DW13933409	EPA-NMFS ENGEL	\$20,100		
			\$20,100	
	EHNR-USGS USGS			\$263,000
90-91 TOTAL		\$1,265,760	\$1,811,174	
TOTAL 1986-1991	EPA	ACTUAL EHNR	CREDITS	DEBITS
FY86	\$300,000	\$0	\$300,000	\$122,403
FY87	\$685,042	\$360,823	\$1,045,865	\$1,244,328
FY88	\$1,625,000	\$514,177	\$2,139,177	\$2,200,684
FY89	\$1,345,708	\$500,197	\$1,845,905	\$1,709,947
FY90	\$1,265,760	\$497,699	\$1,763,459	\$1,811,174
GRAND TOTAL	\$5,221,510	\$1,872,896	\$7,094,406	\$7,088,536

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APES COOPERATIVE AGREEMENT BREAKDOWN FOR FY 91-92

	FEDERAL	N C	A/P SHARE	OTHER	TOTAL
A) EPA/EHNR 91-92	\$747,797	\$280,150	\$1,027,947	\$75,023	\$1,102,970
1. ADMINISTRATION	\$275,228			\$0	
2. INFORM. MGMT.	\$186,000			\$0	
3. PUBLIC PARTICIP.	\$10,000			\$0	
4. CCMP	\$50,000			\$0	
546 5. CUMMINGS	\$34,922			\$11,640	
509 6. TEDDER (DEM)	\$57,881			\$0	
537 7. MCKENNA (DMF)	\$44,406			\$16,530	
543 8. CARLOCK (HRPD)	\$34,200			\$3,800	
526 9. LIPFORD (VA PARK)	\$68,000			\$15,550	
--- 10. SEDIMENT TOXICIT	\$12,557			\$0	
505 11. AMBROSE (ECU)	\$4,070			\$0	
514 12. BLINKOFF (ECU)	\$45,322			\$3,636	
503 13. COUTURE (AEA)	\$32,680			\$1,634	
508 14. ARMINGEON (NCCF)	\$40,956			\$2,048	
524 15. STROUD (PTRF)	\$71,100			\$3,750	
502 16. MEIGGS (ECPCS)	\$50,625			\$10,435	
542 17. CARLOCK (HRPD)	\$10,000			\$6,000	
	\$1,027,947				
B) EPA/RTI 91-92	\$205,000	\$0	\$205,000	\$26,104	\$231,104
536 1. LIDDLE (RTI)	\$20,000			\$1,974	
2. MCCARTHY (RTI)	\$15,000			\$1,439	
544 3. CUNNINGHAM (RTI)	\$30,000			\$8,872	
550 4. DODD (RTI)	\$140,000			\$13,819	
	\$205,000				
C) INTERAGENCY (EPA/NOAA)	\$82,125	\$0	\$82,125	\$10,592	\$92,717
510 1. FERGUSON	\$82,125			\$10,592	
	\$82,125				
D) JOINT FUNDING AGREEMENT EHNR/USGS (STATE ONLY)	\$0	\$219,850	\$219,850	\$219,850	\$439,700
539 1. BALES	\$93,400			\$93,400	
540 2. BALES	\$126,450			\$126,450	
	\$219,850				
SUBTOTAL RESEARCH/PP	\$1,034,922	\$500,000	\$1,534,922	\$331,569	\$1,866,491
E) UNOBLIGATED FED \$ FY 87-90	\$0	\$85,831	\$85,831	\$0	\$85,831
507 COSTANZA (CE LAB)	\$37,388				
--- SEDIMENT TOXICITY	\$12,443				
527 NOGA (NCSU)	\$27,960			\$0	
527 ENGEL (NMPS)	\$8,040			\$16,030	
	\$85,831				
TOTAL FUNDS FY 91-92	\$1,034,922	\$585,831	\$1,620,753	\$331,569	\$1,952,322

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Public Involvement Coordinator's Report
June 1991

1. Citizens' Advisory Committees (CACs)
 - Continue to meet quarterly
 - Meeting jointly
 - Meeting notices sent to public officials, interested citizens and newspapers in area
 - CAC members continue to share program information with community, civic and educational organizations; also are accompanying outreach personnel on local government presentations

2. Exhibits
 - Nursery areas model on loan to Elizabeth City/Pasquotank County schools for eight weeks - rotating among elementary schools
 - New material on free-standing exhibit - depicts early demo projects, their purpose/description, etc.
 - Free standing exhibit displayed at Save Our Sounds-Coastal Celebration in Raleigh April 13 & 14
 - State Fair exhibit this year will be dedicated to Swamp/Maritime Forests- the theme is Forest Stewardship
 - Edenton Water Day - Edenton Waterfront - June 15

3. Outreach
 - General
 - * Back Bay Symposium, Virginia Beach, Virginia
 - * Tri Community Ruritan Club, Winsteadville - February 14
 - * Greenville Book Show - February 27 - March 3
 - * Beta Sigma Phi - April 11
 - * East Main Street Association, Washington - April 21
 - * Pasquotank Ext. Office - Ag. Fair - Elizabeth City, May 15
 - * Sunbury Womens' Club - May 6
 - * Washington Park Womens' Club - May 20
 - * Gatesville Ruritans - May 20

 - Education
 - * Pasquotank County Environmental Awareness Day - April 27
 - * Ayden-Grifton High School - February 14 & April 23
 - * John Tayloe School - March 4
 - * Barton College - March 20
 - * Belvoir School - March 21
 - * P.S. Jones, Washington - March 27
 - * Rocky Mount Earth Day - April 20
 - * Beaufort County Community College - April 25
 - * Sadie Saulter School, Greenville - April 26
 - * Pactolus School, Pitt County - April 26
 - * John Small School, Washington - April 12-23, May 9 & 13, May 24-25
 - * Eastern Elementary, Washington - May 6 & 20
 - * Goose Creek Park, Beaufort County - May 8
 - * John Tayloe School After Care, K-5 - May 14-16
 - * St. Peter's School, Greenville - March 18

 - Local Government Liaison
 - * Bertie County Commissioners - March 19

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- * Currituck County Commissioners - March 25
- * Dare County Commissioners - April 1
- * Perquimans County Commissioners - April 15
- * Gates County Commissioners - May 6
- * Tyrrell County Commissioners - March 6
- * Jones County Commissioners - March 18
- * Martin County Commissioners - April 17
- * Beaufort County Commissioners - April 22
- * Craven County Commissioners - May 6
- * Pitt County Commissioners - May 6
- * Town of Hertford - May 13
- * Hyde County Commissioners - May 20

- Projects

All 4th cycle projects are on schedule except Pine Knoll Shores Aquarium needs extension due to budget cutbacks, position freezes and timing of construction, Fall 1991 to Spring 1992

- Print

- * New poster on Estuarine Environment entitled Life in the Estuary distributed - 350-400
- * "A Citizens' Guide to Coastal Water Resource Management" at update stage
- * "Guide to Estuaries" and "Where the Rivers Meet the Sea" continue to be demanded
- * Fact Sheets - total 33 - at copywriting stage - format, style, color etc. completed
- * Five newspaper articles sent to 16 media outlets around study region - 11 consented to run as space allows

- Electronic

- * Video PSAs for targeted audiences (6) in various stages of development
 - 3 in production
 - 2 being shot
 - 1 in preproduction
- * Radio spots - within established structure of daily syndicated radio program - "Weekdays with Barbara King"
- * "Eye on Carolina" - WNCT-TV noon news - 1 minute spot on occasion

4. Meetings and Events

- Bi-State Coordination-Virginia - GIS compatibility, Elizabeth City - April 28
- Volunteer Recognition - Pasquotank County/Elizabeth City School - April 23
- N.C. Estuaries Symposium - East Carolina University, Greenville - April 18
- WRAL Coastal Celebration, Raleigh - April 13 & 14
- CGIA - Use of GIS for county planning, Raleigh - May 9 & 10
- Financial Planning Meeting (Apogee), Greenville - June 12
- Citizens' Monitoring Fecal Coliform Workshop, New Bern - April 29
- Public Participation Negotiation Meetings with 5th cycle principal investigators, Washington - April 2
- Coastal Symposium, Sail & Water Conservation Society - Wrightsville Beach - May 16 & 17

- NEP Data Management Workshop - New Orleans - May 20 & 21
 - Gulf of Mexico National GIS Meeting - New Orleans - May 22-24
 - OHEP NEP Directors' Meeting - San Diego - May 28-31
 - Episcopal Diocese Environmental Ed Program - Trinity Center - June 5
 - State Fair - Raleigh - June 4
 - Aquarium Society Members Night - N.C. Aquarium at Pine Knoll Shores
 - June 14
 - Oct 11 - Researchers' Review Workshop - Manteo
 - Oct 12 - Annual Public Meeting - Manteo
5. Newsletter

- 3 remaining issues are scheduled for June, August and September/October 1991 - PTRF is the contractor - format will be two pages or four sides
- Mail list is constantly updated

6. Citizens' Monitoring

- CWQ database is reconstructed and compatible with GIS and other WQ agency databases
- Robbie Blinkoff presented a professional paper entitled Citizen Monitoring Groups and Their Impact on Coastal Communities which led to an

Citizens' Monitoring (Continued)

- invitation to write a series of articles on that topic for The Volunteer Monitor, the national newsletter of volunteer W.Q. monitoring
- 5 QA/QC regional meetings for monitors were held in April
- Presentations on W.Q. made to Coastal Federation at its annual meeting on April 27
- Relationship between Stream Watch and APES' CWQM Program has been established which ensures better geographic coverage of state

Target

ENVIRONMENTAL QUALITY GOALS
FOR
THE ALBEMARLE-PAMLICO ESTUARINE STUDYPRIORITY CONCERN: Declines in Fisheries Productivity

GOALS: Restore fisheries resources to levels which can provide optimum sustainable yields.

Restore Roanoke River striped bass stocks to levels of reproductive success as measured by juvenile abundance recorded during the 1960 through 1974 time period with corresponding adult stock levels.

PRIORITY CONCERN: Health of Aquatic Resources

GOALS: Reduce prevalence and incidence of diseases, such as Ulcerative Mycosis in finfish and shell deterioration disease in blue crabs, by reducing or controlling causal factors.

Eliminate availability to aquatic life of toxic concentrations of pollutants in water and bottom sediments.

Maintain or improve water quality standards to protect biological integrity in all areas and improve degraded waters up to those standards.

PRIORITY CONCERN: Eutrophication

GOALS: Achieve nutrient reduction goals prescribed in management strategies for tributary drainage basins designated as Nutrient Sensitive Waters.

Adhere to antidegradation requirements of the Clean Water Act for nutrients within all tributary drainage basins.

PRIORITY CONCERN: Impairment of Nursery Area Function

GOALS: Maintain adequate water quality conditions within areas functioning as estuarine nursery areas and anadromous fish spawning areas.

Maintain or restore structural integrity of estuarine nursery areas.

Ensure adequate quantity of primary and secondary nursery areas and anadromous fish spawning areas to support optimal fish stocks.

PRIORITY CONCERN: Anoxia - Related Fish Kills

GOALS: Improve water quality in all areas experiencing high incidence of fish kills to established water quality standards levels or better if necessary.

Achieve measurable reductions in the incidence of fish kills.

PRIORITY CONCERN: Habitat Loss

GOALS: Halt losses of fisheries habitat areas (i.e. nursery areas) necessary for the reproduction and rearing of commercially and recreationally important species.

Limit habitat losses of game and nongame wildlife species.

Limit losses of unique and sensitive barrier island wetlands and terrestrial habitats.

Achieve no net loss of wetlands productivity and function, and pursue opportunities to increase wetlands productivity.

PRIORITY CONCERN: Closure of Shellfish Waters

GOAL: Maintain viable shellfishing areas and restore degraded areas.

PRIORITY CONCERN: Changes in Distribution Patterns of Bottom-Dwelling Organisms

GOALS: Maintain water quality necessary for productive shellfishing uses in currently active areas and in areas identified for potential development of shellfishing.

Maintain or improve water quality necessary for survival and growth of submerged aquatic vegetation.

Limit Submerged Aquatic Vegetation losses due to physical destruction or disturbance.

PRIORITY CONCERN: Impact of Human Population Growth and Development on the Estuarine System

GOAL: Ensure that land use changes have minimal ^{Adverse} environmental impact.