

State of North Carolina  
Department of Natural Resources and Community Development  
ALBEMARLE-PAMLICO ESTUARINE STUDY  
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor  
S. Thomas Rhodes, Secretary

Robert E. Holman, Director

October 25, 1988

MEMORANDUM

TO: Technical Committee

FROM: Robert E. Holman, Ph.D. *REH*

SUBJECT: Technical Committee Meeting - November 10, 1988

Enclosed is the agenda for the Technical Committee meeting to convene November 10, 1988. The main subject is to review project areas to be included in the Call for Proposals. Subcommittees will also update the committee, particularly the Technical Review and the Citizens' Affairs Subcommittees concerning needed project areas. Also enclosed are the minutes from our August 25, 1988, meeting, a list of projects to be considered with the Call for Proposals, external reviewers' comments from the Annual Meeting, a public involvement plan, and the November calendar of events.

I hope you can attend this important meeting. Please let me know if you have any questions or other comments concerning the agenda.

REH:kn

Enclosures

cc: Policy Committee  
Citizens' Advisory Committees  
Joan Giordano  
Ted Bisterfeld

Agenda

ALBEMARLE-PAMLICO ESTUARINE STUDY

TECHNICAL COMMITTEE

TIME: 10 a.m., November 10, 1988  
LOCATION: Wildlife Commission Hearing Room (Rm 386)  
Archdale Building  
Raleigh, NC

10:00-10:05	Call to Order	Bruce Barrett
10:05-10:15	Consideration of Minutes	
10:15-10:30	Director's Report	Bob Holman
10:30-11:00	Update: Annual Review Meeting (Attendance List) Early Implementation Projects	Bob Holman/ Ted Bisterfeld
11:00-11:30	Subcommittee Reports	
11:30-12:00	Working Lunch	
12:00- 3:00	Review Project Areas to be Included in Call for Proposals	Jim Turner
3:00- 3:15	Review Meeting Schedule	

MINUTES  
ALBEMARLE-PAMLICO ESTUARINE STUDY  
TECHNICAL COMMITTEE  
AUGUST 25, 1988

The meeting began at 10:00 a.m. Dr. Ernie Carl, NC Dept. Natural Resources and Community Development chaired the meeting. Frank Redmond, EPA, Region IV, sat in for Bruce Barrett, Co-Chairman. Mark Alderson, EPA Washington, D.C., asked that data management be added to the agenda. Dr. Carl motioned to adopt the agenda which carried by aye vote.

Ted Bisterfeld asked that page 8, paragraph 4 of the minutes be modified as follows: least implementable should read the most implementable and Lake Mattamuskeet should read Merchant Mill Pond. Mark Alderson motioned to approve the minutes. Redmond seconded. The minutes were approved with no objection.

I. Director's Report

Bob Holman, Program Director, gave his report.

A. Budget

- o The Office of Marine and Estuarine Protection (OMEP) has signed this year's cooperative agreements and the funds should be available by October 1, 1988.
- o Next year's funding cycle will begin after the annual review meeting (October 14-15). This will allow more time (two opportunities) for project evaluation by all committees.
- o Of \$500,000 in State money, \$5,721 reverted back.
- o There was \$116,000 in carry over funds. However, due to project cost overruns and indirect costs not listed, this money is being used to fund the approved projects.
- o On June 30th, Ted Bisterfeld, Mike Orbach, B.J. Copeland and Bob Holman delivered the cooperative agreement packages to OMEP. They met with OMEP staff and discussed the pros and cons of APES progress. Very high marks were received from the EPA office. Bob thanked Marguerite Duffy, consultant, for putting these packages together. He commended Kathy Norris, secretary, for her dedication and help with this effort.

- o OMEP conducted an internal audit of all the estuary programs to ensure that their record keeping systems were adequate. Of the six programs, APES received the highest ranking (89%) for appropriate project and record keeping.

B. Two Challenges for the CAC

- o Annual Meeting--The CAC has initiated plans for the first annual review meeting and drafted the meeting agenda (Attachment A).
- o Fair Exhibit--A poster session display from the annual meeting will be carried to the State Fair on Monday October 17th.

C. Calendar of Events

- o Bob attended the June 7th OMEP Technical Transfer meeting. There was excellent communication and information exchange among all the estuary programs and it was a very worthwhile event.
- o The first issue of the monthly APES newsletter has been published and distributed.
- o Bob spoke to the Rotary Club in Elizabeth City regarding the APES program and related issues. Over 100 people attended the meeting. He will look for and attend similar meetings for promoting APES.

II. Public Participation and Coordinator's Report

Joan Giordano participated in the Public Participation Coordinators Summit workshop held in July in Rhode Island. She said it was a valuable source of information and contacts.

Joan mailed 13,000 copies of the newsletter using the Sea Grant list provided by B.J. Copeland's staff. She said that efforts will be made to sort through the list to reduce duplication. Future newsletter issues will contain summaries of on-going research, whereas the first issue concentrated on general APES background and information.

The Citizen Advisory Committees (CAC) did re-elect their leaders and establish agendas.

### III. Data Management Coordinator

There is a need to hire a data management coordinator. Bob said that Karen Sideralis, LRIS, has been doing an excellent job of keeping things going in this area, but, it is impossible to do it all herself. A new position has been created, requiring three areas of responsibility and experience: geographic information systems (GIS), environmental science, and statistics. A recruiting subcommittee has been established (K. Sideralis, J. Bales, B. Holman, Dr. Carl, B. Strickland (EPA Region IV)). There has been some difficulty finding a person with all three areas of expertise. When a person was found, the salary offered was too low. Paul Wilms suggested that a survey be made of salary equivalents and that perhaps the State can upgrade. Mark Alderson said that OMEP's data management consultant agreed it is too low.

Mark Alderson indicated that other avenues should be explored for filling the position, as this is a critical component of the study. He suggested looking into contract support, a federal IAG, etc. Dr. Carl said that other options would be explored only after this first round of interviews is completed. It was decided to continue with the recruiting effort in this order:

- o Complete the present interviewing/selection.
- o Look within the State system for personnel and hiring options.
- o Look at EPA loan system (IAG, etc.).
- o Last choice--contract support.

Bob Holman is to look into the possibility of using \$10k of the USGS money for upgrading the salary to an acceptable level.

### IV. New Technical Committee Members

Frank Redmond introduced two new members: Bill Cole, U.S. FWS and Don Hoss, NOAA.

### V. Project Officer's Report

Ted Bisterfeld, EPA Project Officer for APES, distributed a list of funded projects and funded levels (Attachment B). B.J. Copeland noted that he is not the principal investigator as listed on the early implementation project. Ted and Bob are to determine who the appropriate State/Federal contacts should be for the projects.

## VI. Technical Review Committee Report

Mr. Jim Turner provided an overview of the Subcommittee's Activities Report for identifying program needs and schedules for 1988-89. A complete report is included as Attachment C. Mr. Turner feels that APES should hold quarterly meetings leading to an annual meeting.

B.J. Copeland discussed the need to begin preparations toward a Status and Trends Report, required by Section 317 and 320 of the Clean Water Act. He distributed a confidential pre-proposal for developing work groups and publication of the report, which includes CAC involvement.

Motion: Dr. Stewart moved to accept Dr. Copeland's pre-proposal as a concept paper. Dr. Carl recommended sending the paper to the Policy Committee for their formal acceptance of the concept, before developing the proposal further. A vote was called. The ayes carried. Dr. Copeland abstained from voting.

Mr. Turner and Dr. Copeland discussed the need for closely monitoring the progress of projects. While Bob Holman is doing a good job, he needs help in project monitoring, completing funding packages, etc. It was suggested that the Department could provide some assistance. Mr. Wilms said he could assign additional tasks to staff in the Department. However, he wants a suggestion from the Program Director on the type of persons, projects, etc, for which he needs assistance.

## VII. Modeling/Monitoring

Mr. Jack Hartigan, Camp Dresser and McKee, was the invited guest speaker. He summarized the Chesapeake Bay Program's past and present modeling efforts, providing pros and cons of their modeling projects. He concluded his presentation with a list of lessons learned applicable to Albemarle-Pamlico Sounds. Dr. Carl complimented him on an excellent presentation.

## VIII. Virginia Involvement

There was agreement on the importance of involving the State of Virginia in the Program. Dr. Carl was asked to bring this up with the Policy Committee and to suggest that Secretary Rhodes discuss this while at the Governor's Conference.

IX. Human Environment

Dr. Orbach reminded the Committee that a human environment proposal which was approved as technically correct and as a high priority had not been funded due to a shortage of funds. He requested that the Program Director determine if additional money is available and to determine how it might be funded.

X. Next Meeting

The next meeting is scheduled for November 10th. Bob Holman distributed a long range TC/PC schedule of meetings.

The meeting adjourned at 4:00 p.m.

## ALBEMARLE-PAMLICO ESTUARINE STUDY FY-88 FUNDING

<u>GRANTEE</u>	<u>SCOPE OF WORK</u>	<u>PRINCIPAL</u>	<u>COST</u>
DUKE	Survey and Determine Habitat requirements for Oyster Success	Sutherland	\$68,430
NC State	Water Management and Land Use Impacts on Water Quality and Hydrology	Skaggs	\$87,363
	Shell Disease in Blue Crabs	Noga	\$31,099
	Managing Multiple Water Uses: A Pilot Study	Clark	\$60,054
	Albemarle and Pamlico Hydrologic Coupling Study	Pietrafesa	\$83,484
			<u>\$262,000</u>
EAST CAROLINA	Abundance and Viability of Striped Bass Eggs in the Roanoke	Rulifson	\$17,700
	Food and Feeding of Larval fishes in Roanoke River and Albemarle Sound	Rulifson	\$38,300
			<u>\$56,000</u>
UNC	Reduction of Estuarine Nutrient Loading in Coastal Swamps	Kuenzler	\$75,193
	Potential for Entrophication and Nuisance Algal Blooms	Paerl	\$52,416
	Mitigation of Bay Scallop Losses Caused by Red Tide	Peterson	\$66,734
			<u>\$194,343</u>

NATIONAL MARINE  
FISHERIES SERVICE

Shell Disease in Blue Crabs  
(collaborative project w/NC State)

Engel

\$33,321

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<u>GRANTEE</u>	<u>SCOPE OF WORK</u>	<u>PRINCIPAL</u>	<u>COST</u>
NCDNRCD	Administration	Holman	\$250,000
	Data Management	Siderelis	\$164,000
	Continue Hyde County Soils Survey	Pearce	\$10,000
	Continue Analysis of Estuarine Nursery Area Data	Noble	\$3,720
	Water Quality Factors in Abundance and Viability of Striped Bass Larvae in Roanoke	Rulifson	\$20,130
	Inventory and Dev. Protection Plans for Critical Natural Areas	Roe	\$59,500
	Evaluation of Resource Protection Programs	Nichols	\$32,657
	Inventory Heavy Metal Pollutants in Organic-Rich Muds	Riggs	\$40,885
	North Carolina Aquarium Exhibit about Striped Bass	Conoley	\$18,000
	Guide to Streamwalking: An Estuarine Companion	McNaught	\$17,140
	Community Educational Outreach (Pamlico)	McNaught	\$21,540
	Community Educational Outreach (Albemarle)	Carson	\$13,293
	Educational Calendar	Nurnberg	\$14,500

NCDNRCD (continued)

The State of the Estuary: TV Public Service Announcements	Willard	\$30,275
Citizens' Monitoring Program	McNaught	\$53,000
Augmentation to State's Ambient Monitoring Program	Tedder	\$210,000
Early Implementation/Gates Co. Merchants Millpond BMP Installation	Ellis	\$200,000
Early Implementation/Primary Nursery Area Protection	Copeland	\$200,000
		<hr/> \$1,358,640

GRANTEE

SCOPE OF WORK

PRINCIPAL

COST

U.S. GEOLOGICAL  
Survey

Continuation/Eval. of Ag BMPs

Bales

\$87,000

Continuation/Compilation and  
Analysis Existing Hydrologic  
and WQ Data

Bales

\$30,000

Continuation/Determine Flows  
and Flow Patterns in Pamlico &  
Neuse Rivers

Bales

\$120,000

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\$237,000



# United States Department of the Interior

## GEOLOGICAL SURVEY

Water Resources Division  
Post Office Box 2857  
Raleigh, North Carolina 27602



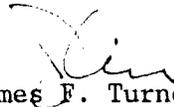
August 25, 1988

To: Co-Chairmen, Technical Committee - APES  
From: Chairman, Technical Review Subcommittee  
Subject: Technical Review Subcommittee Activities Report

The Subcommittee met on August 11 and again on August 22, to develop plans for 1988-89 activities. Principal activities include identification of research needs, development of an RFP, review and selection of proposals and time schedule of activities.

A number of other issues were considered by the committee including a proposal status and trends report, implementation projects, CAC review and input and monitoring progress on project.

Results of subcommittee activities and recommendations are summarized in the attachment.

  
James F. Turner

JFT/jb

Attachment - Activities Summary

ACTIVITIES SUMMARY  
Technical Review Subcommittee

- o 1988-89 Program Schedule - The following tentative schedule was suggested for integration into an overall APES program calendar (with quarterly updates).

Oct. 1, 1988	Input on research needs - Resource Managers, CAC, and participating agencies
Oct. 15, 1988	Annual Program Review
Oct. 25, 1988	Subcommittee finalize research needs list
Nov. 1, 1988	Develop draft RFP/Committees for review
Nov. 15, 1988	Issue RFP
Jan. 15, 1988	Begin review of proposals
Mar. 1, 1989	Return proposals to authors for revisions
Mar. 15, 1989	Revised proposals to Holman/subcommittee
Apr. 1, 1989	Final proposals to EPA for consideration
Jun. 1, 1989	Final proposal package to EPA for approval

- o Research needs (new or expanding efforts) are to be identified from input from:
  - Resource managers
  - CAC's
  - Participating agencies
- Dave Owens will coordinate resource managers' input and Bob Holman will coordinate CACs' and participating agencies' input. Drafts are to be provided 10/1/88.
- The Technical Review Subcommittee will review input and recommend final research agenda following annual program review.
- o Peer review comments - the subcommittee agreed comments should be made available (anonymously) to respective proposal writers.
- o Annual program meeting should provide 1) technical review of the research projects and 2) public review of the APES programs in terms of overall aims, and objectives expected results. Use of research results in improving and implementing management plans should be emphasized. An indication of when conditions may improve as a result of APES would enhance public perception of the programs.
- o Monitoring progress - A need was indicated for routine progress reports for various funded projects. A suggestion was made to assign projects to subcommittee members for monitoring and reporting progress; however, several committee members felt that the Program Director should monitor and report on projects. To do this, he needs staff assistance.

Subcommittee recommendation - provide additional support to the Program Director as may be appropriate.

- o CAC - Some CAC committee members feel that they have not had opportunity to provide input to research efforts; and, what input they have suggested has been largely ignored. The Subcommittee feels that CAC suggestions have been considered. Unfortunately, recommended proposals were of poor technical quality or were in peripheral areas (did not specifically address major objectives of APES).  
CAC's will be given opportunity to provide formal input to formulating research needs and to review and comment on RFP prior to release.

- o Status and Trends Report - APES must prepare and document knowledge of Albemarle-Pamlico system by 1991 to satisfy EPA program requirements. The subcommittee felt an interim report would be helpful in formulating the final report, help resolve communication problems, and improve public relations in general. Sea Grant and WRRI have prepared short abstract proposal covering preparation of this interim report. Copeland to discuss.
- o Implementation Projects -
  - Ellis - Gates County project is ready for implementation, except funding.
  - Copeland - Alternative sites are presently under consideration; final site selection is due by September 30, 1988, consistent with EPA funding schedule.
- o Data management person - Recruitment efforts have not been very productive so far; more interviews scheduled for week of August 22.

# Technical Committee

ATTACHMENT C

## List of Attendees

<u>Name</u>	<u>Organization</u>	<u>Phone #</u>
Ernie Carl	NRCO	(919) 733-4984
FRANK M. REDMOND	EPA-REG IV	404 347-2126
R. Paul Wilms	NRCO	(919) 733-7015
MARK ALDERSON	EPA-HQT'S	202 475-8483
Jim Turner	USGS	919-856-4570
John J. Garrett	SCS	919-790-2909
Carroll Pierce	Soil & Water NRCO	919-733-2256
James M. Stewart	WRRI	919-737-2815
MIKE ORDACH	ECU/MSU	(919) 757-6883
B J Cope/and	UNC Sea Grant	(919) 737-2454
Ted Bosterfeld	EPA, REGION IV	(404) 347-2126
Fred White	DFIR NRCO	919 733 2162
Kendall Check (alternate for Don Hess)	NMFS	919 728-5090
Bill Cole	USFWS	919 726 1026
Tom Ellis	NC Dept of Agriculture	919 733-7125
John Stallings	Albemarle CAC	919-794-2183
Bob Holman	APES	919 733-0314
Maureen Duffy	SET	301 849-5815
Kathy Dennis	APES	919 733-0314
David H. Parks	Student - ECU	919-752-4286
Karen Siderelis	NRCO/LTIS	919-733-2090
Hannel Johnson	NRCO/DMF	919-264-3911
Mike Gantz	FWS	919-856-4520
Tom Gray	APES/PLAC	919-828-9976
Don Holman	CCNC/Kern Ctr/NCWF	919/839-0889

<u>Name</u>	<u>Organization</u>	<u>Phone #</u>
Terry Stolar	N. Carolina Fisheries	919-946-6481
Dub Carter	Policy Committee	919/833-4859
Todd Miller	NCCF	393-8185
Joe Giordano	APES	919/946-6481
John D. Baker	Duke University	919/383-3006