Year: 2006

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241

for the period from April 1, 2007 - September 30, 2007

Task: 1 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Coastal Program Management & Quick Grants

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted	10/30/2007
Open	Start:	End:	Closeout:			
	10/1/2006	3/31/2008	6/30/2008			

Task: 1.01 Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research Reserve System

Coastal Management Support

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 1.02 Virginia Commonwealth University

Coastal Management GIS Support

Project status:	Current approved			Final deliverable(s) status:	Project Canceled
Cancelled	Start:	End:	Closeout:		
	7/1/2007	9/30/2007	12/31/2007		

Task: 1.03 Virginia Institute of Marine Science

Working Waterways & Waterfronts Symposium Support

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	4/1/2007	9/30/2007	3/31/2008		

Final products in mailed attachments:
Water Access 2007 Conference Proceedings (2 CDs)

Task: 1.04 Virginia Marine Resources Commission - Habitat Management

Submerged Lands Management Conference Support

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2007	12/31/2007	3/31/2008		

The International Submerged Lands Management (ISLM) Conference was held in Williamsburg from October 28 through November 2, 2007. The Virginia Marine Resources Commission hosted the 26th annual conference and used CZM funds to contract services for a facilitator to produce conference notes for each presentation during the various conference sessions and to facilitate a session devoted to development of a website for submerged lands managers. A final report on the conference was completed in February, 2008.

Final product attached:
Final Report - International Submerged Lands Conference Support

Task: 1.05 Virginia Commonwealth University

Regional Socio-Economic Assessment of Shellfish Aquaculture

Project status:	Current approved			Final deliverable(s) status: Project Period Open
Open	Start:	End:	Closeout:	
	1/1/2008	6/30/2008	9/30/2008	

Since January a literature review has been conducted that has focused on regulations associated with wastewater dispersal/disposal, water quality as well as exploring alternative wastewater treatment technology options. Besides reviewing literature from electronic journal resources, contact was made with professionals to gain a more thorough insight. From Virginia's Department of Environmental Quality, Marcia Degan provided information regarding onsite alternative wastewater treatment technologies and recommended getting in touch with Trapper Davis who is owner of Coastal Plains Environmental Group. A personal interview and site visit was conducted with Davis. Topics discussed related to current onsite alternative wastewater treatment systems. Also from Virginia's Department of Health, Anish Jantrania provided more information about onsite treatment systems. His book, entitled Advance Onsite Wastewater System Technologies, was a reliable resource to understand the function of technologies and how they are implemented. The information that was collected assisted in completing a summary on alternative wastewater treatment technologies, including aerobic treatment units, media filters, constructed wetlands, marshland upwelling systems and membrane bioreactors. Moreover a first draft of federal and state regulations pertaining to wastewater disposal/dispersal and water quality has been completed. Further contact was made with DEQ staff, including Alan Brockenbrough. He provided a list of current wastewater treatment facilities with Virginia Pollutant Discharge Elimination Systems (VPDES) permits in the Northern Neck, Middle Peninsula and the Accomack Northampton planning district commission regions. David Whitehurst (DEQ) then provided contact information for these wastewater treatment facilities. Phone calls will be made to these wastewater facilities in order to gather cost estimates (i.e. investment costs, regulation compliance costs, as well as operational and maintenance costs) for the economic assessment of this project.

A literature review has also been conducted on aquaculture and perceptions of marine resources, however the next few months will entail a more thorough review. This will assist in the creation of a survey that will explore the knowledge base, attitudes and perceptions of option leaders in various stakeholder groups toward aquaculture, population growth, regulations, waterfront access and land/water use conflicts within the Northern Neck, Middle Peninsula and the Eastern Shore. Contact has also been made with Dr. Clifford Fox (VCU) in regards to surveying methodologies.

Final Products	% Completion	Anticipated Completion Date
1.Economic impact of alternative wastewater treatment technologies in Response to water quality requirements for enhancing aquaculture	55%	6/30/2008
2. Socio-economic regional assessment of select PDC's in relation to expansion of shellfish aquaculture as an industry	30%	6/30/2008

Task: 1.06 Environmental Law Institute

Assessment for Off-shore Energy Development Impact Readiness: State Comparisons and Recommendations

Project status:	Current approved			Final deliverable(s) status: Project Period Open
Pending	Start:	End:	Closeout:	
	4/1/2008	12/31/2008	3/31/2009	

The project began on April 1, 2008. A progress report will be submitted for the next performance period.

Task: 2 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Virginia CZM Program Outreach

Project status:	Current approved			Final deliverable(s) status: Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2006	6/30/2008	9/30/2008	

In lieu of a Fall/Winter issue of the Virginia Coastal Zone Management magazine, funds in this task were expended on the 2007 Virginia Coastal Zone Partners Workshop conducted in December 2007. During this reporting period, final invoices and registration payments were cleared. Just over $8,900 dollars remain in this task which could be used to print a new guide to native plants on the Eastern Shore currently in production. A guide specific to the region does not currently exist and many resource managers working on the Shore have noted it would be a valuable comprehensive source of information. The guide will be distributed through garden centers, by community groups such as master gardeners and naturalists, and at other venues in support of a new social marketing campaign on the ES to increase native vegetation.

Task: 3 Dept. of Environmental Quality - Environmental Impact Review

Environmental Impact Review & Federal Consistency

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted
Closed	Start:	End:	Closeout:		
	10/1/2006	12/31/2007	3/31/2008		

Task: 4 Dept. of Environmental Quality - Environmental Education

Environmental Education

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	3/31/2008		

Final products attached:
Product 1 - Final Report

Task: 5 Dept. of Environmental Quality - Chesapeake Bay Program

Water Quality Improvement Fund Match

Project status:	Current approved			Final deliverable(s) status:	Attached
Closeout	Start:	End:	Closeout:		
	10/1/2006	3/31/2008	6/30/2008		

Alberici is the contractor for Construction Package #2 for the Arlington Sewage Treatment Plant upgrade. Work to date and/or since the previous report has included:

• Completed installation of steel foundation piles at the West Secondary Services Pump Station (WSSPS), Aeration Tanks #5 and #6 and the West Mixed Liquor Distribution Structure. All 7B Milestone 1 steel foundation piles have been installed.
• Continued form and rebar installation and concrete placement for walls, baffle walls, elevated channels at Aeration Tanks 5 and Mixed Liquor Channel
• Completed placement of foundation and base slab concrete at Secondary Clarifier #7.
• Completed concrete wall placements at Secondary Clarifier #8.
• Continued installation of forms, rebar and concrete for Primary Clarifier #7 and #8 modifications.
• Performed electrical rough-in at the South Tunnel Access Building, Secondary Blower Building including the Electrical Room addition, Aeration Tanks #5 and #6, Primary Clarifiers, Preliminary Treatment Building (PTB), PTB Back-up Structure, and West Secondary Services Pump Station.
• Installed direct buried electrical conduits at the Primary Clarifiers.
• Installed yard electrical rough-in for site lighting at the Dissolved Air Flotation Thickener (DAFT) and Maintenance Buildings and the Potomac Interceptor head works.
• Commenced excavation and utility relocation at the Surface Waste Pump Station (SWPS). Installed buried utility piping north of SWPS as well.
• Installed and tested buried and embedded piping serving Secondary Clarifiers #7 and #8 and the West Secondary Services Pump Station.

Complete Construction of this Nutrient reduction project will not occur until 2011, however all work used as match is now complete.

Final product is attached.

Task: 6 Virginia Marine Resources Commission

Permit Review and Compliance

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Final product in mailed attachments:
Final Report - VMRC Permit Complicance and Inspection Program

Task: 7 Dept. of Conservation & Recreation - Natural Heritage

Habitat Conservation/ Locality Liaison

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Final products attached:
Final Report plus Appendix A,B,D,E,F (Appendix C submitted in previous years) - satisfies all grant deliverables

Task: 8 Virginia Institute of Marine Science - Center for Coastal Resources Management

Tidal Wetlands Management Technical Support

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted	10/31/2007
Closed	Start:	End:	Closeout:			
	10/1/2006	9/30/2007	12/31/2007			

Task: 9 Virginia Institute of Marine Science

2006 Submerged Aquatic Vegetation Distribution and Abundance Survey of Virginia's Chesapeake Bay and its Tributaries and the Seaside

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	12/31/2007	3/31/2008		

Final project summary serves as final product.

Task: 10.01 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Seaside Heritage Program - Year 5. Coordination and Management Plan

Project status:	Current approved			Final deliverable(s) status:	Attached
Closeout	Start:	End:	Closeout:		
	10/1/2006	3/31/2008	6/30/2008		

During this period about $3200 had been left to expend. $1544 was spent on on Kestrel, Sharp-shin, Cooper's, and Broad-winged educational silhouettes for use at the Kiptopeke State Park (see attached photo). About $1500 remais. At least $400 will be spent in support of Technical Advisory Committee meetings for DEQ to develop a water quality regulation designed to beter protect shellfish growing waters on Virginia's Eastern Shore.

Task: 10.02 College of William & Mary - Center for Conservation Biology

Potential Impact of Common Reed Expansion on Threatened High-marsh Bird Communities on the Seaside Phase III - Red Knot Stopover E

Project status:	Current approved			Final deliverable(s) status:	Attached
Closeout	Start:	End:	Closeout:		
	10/1/2006	12/31/2007	3/31/2008		

Final products attached:
Product 1 - Red Knot Stopover Ecology (Report)
Product 2 - Impact of Phragmites on Wintering Birds (Report)
Product 3 - GIS data

Task: 10.03 Virginia Institute of Marine Science

Restoration of Seagrasses in Virginia's Seaside Bays - Year 5

Project status:	Current approved			Final deliverable(s) status:	Attached
Closeout	Start:	End:	Closeout:		
	10/1/2006	12/31/2007	6/30/2008		

Final products attached:
Product 1 - Final Report
Product 2 - SAV Restoration sites GIS data

Task: 10.04 Virginia Eastern Shorekeeper

Virginia Eastern Shorekeeper

Project status:	Current approved			Final deliverable(s) status:	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	6/30/2008		

The ShoreKeeper, Richard Ayers left this position in November 2007. A new ShoreKeeper, Dave Burden, has replaced him as January 2008. Unfortunately Richard did not complete the final report before leaving. We expect to receive Richard's final report (hand delivered) on Monday, May 5, 2008. Therefore the close-out period of this task has been extended.

Task: 10.05 Dept. of Conservation & Recreation - Natural Heritage

Management and Education to Control Phragmites on the Seaside of Virginia's Eastern Shore

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	12/31/2007	3/31/2008		

Final products attached:
Product 1 - Final Report
Product 2 - Phragmites Control Booklet

Task: 10.06 The Rector and Visitors of the University of Virginia

Avian Habitat Restoration on the Virginia Barrier Islands: Test of a Non-Lethal Approach to Predation Management

Project status:	Current approved			Final deliverable(s) status:	Project Period Open
Open	Start:	End:	Closeout:		
	10/2/2006	9/30/2008	12/31/2008		

Health problems (of VMNH personnel and their immediate family) prevented the planning and implementation necessary to conduct the field trial in spring/summer 2007 as described in the original proposal. The net result of all these circumstances is that the tasks outlined for the October 2007 - March 2008 period in the current contract have not been completed. However the scope of work has been updated/revised to reflect the work that will now be completed during spring, summer and fall of 2008. The task has been extended through September 30, 2008.

This project will (1) produce a GIS database and maps of FWS, TNC and VDGIF predator capture locations on the islands for the period 2003–2007 (Where on the islands are the predator "hot spots" located, where has removal trapping been most effective in reducing predator incidence, and where are the apparent migration pathways between islands located?) and (2) develop a set of web-based education materials designed to aid managers in identifying areas on the islands where a CFA strategy might reasonably be employed and assist managers in the effective implementation of such a strategy. Although additional tests and refinements of the CFA technology remain to be run, we are at a point where written guidelines and instructions and video documentation of the methodology are appropriate. Taken together, these tasks lay the foundation for the application and further tests of this new form of non-lethal predation management on the Virginia barrier islands in 2009 and beyond.

Final Products	% Completion	Anticipated Completion Date
Spatially-Explicit Data Base for Adaptive Predation Management on the Virginia Barrier Islands	0%	9/30/2008
Education Materials for Implementation of Conditioned Food Aversion as a Predation Management Tool on the Virginia Barrier Islands	0%	9/30/2008

Task: 10.07 Virginia Institute of Marine Science

Population Assessment of Eastern Oysters (Crassostrea virginica) in the Seaside Coastal Bays.

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	1/1/2007	12/31/2007	3/31/2008		

Final products in mailed attachments:
CD - Final Report and GIS data

Task: 10.08 The Rector and Visitors of the University of Virginia

Monthly Seminar Series

Project status:	Current approved			Final deliverable(s) status:	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2006	9/30/2008	12/31/2008		

Task: 10.2 Accomack-Northampton Planning District Commission

Interpretive Signage for Seaside Heritage Access Sites

Project status:	Current approved			Final deliverable(s) status:	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2006	6/30/2008	9/30/2008		

To highlight the Seaside's unique resources and ongoing efforts of the VSHP partnership to restore, manage and protect these resources, informational and interpretive signage will be strategically placed at sites of new VSHP public access and high traffic - Chincoteague Downtown Park, Wachapreague Harbor, Oyster Harbor, Willis Wharf and the Eastern Shore Wildlife Refuge.

The two panels common to each site – highlighting the economic and ecological value of seaside resources - have been reviewed by VSHP partners and are close to final. Drafts of the site specific panels should be completed by the middle of May.

Although construction of the kiosks and production of the interpretive panels is not yet out for bid, VA CZM staff did solicit a preliminary proposal from a vendor that provides framed interpretive signage for the National Park Service. This proposal looks very reasonable and promising. The kiosk is an aluminum frame structure custom designed around the panels. It is guaranteed and has been used in marine environments and withstood the elements well. Installation would entail concrete footing for the posts. The structure is streamlined and would seem to be less intrusive than a wooden roofed structure. Additional proposals will be sought to identify other vendors who provide the kiosk structure and panels as a package as well as from vendors who provide just the panels and just the kiosk structure, wooden or aluminum, to compare costs.

Siting of the kiosk at Chincoteague and in Oyster is being finalized and 306A documentation should be forthcoming soon. It is still not clear whether an existing kiosk at Wachapreague, funded by a Virginia CZM grant in August 1995, can be utilized or if space can be located in the hardor area for a new kiosk. This decision should also be made within the month. The observation deck at Willis Wharf has been completed (FY05 Task 9.02), and VA CZM staff will visit the site soon to confirm the space available for signage on the deck's railings.

Final Products	% Completion	Anticipated Completion Date
Design and Fabrication of Informational/Interpretive Panels	40%	September 2008
Installation of Kiosks (or rail mounted sign bases)	0%	September 2008

Task: 10.21 Virginia Marine Resources Commission

Seaside Heritage Program - Oyster Reef Restoration

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	4/1/2007	9/30/2007	3/31/2008		

Final products attached:
Product 1 - Final Report
Product 2 - Excel table of all oyster reef restoration sites completed to date (with which to create a GIS shapefile)

Task: 11 Dept. of Conservation & Recreation - Natural Heritage

Eastern Shore Land Acquisition - Bull Tract

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	12/31/2007	3/31/2008		

Final products attached:
Final Report - Partial Acquisition of Bull Tract (Products 1 and 2)

Task: 41 Accomack-Northampton Planning District Commission

A-NPDC Technical Assistance Program

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted	10/30/2007
Closed	Start:	End:	Closeout:			
	10/1/2006	9/30/2007	12/31/2007			

Task: 42 Crater Planning District Commission

Technical Assistance Program

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Final products in mailed attachments:
Product 1 - Environmental Impact Review Comment Letters
Product 2 - Coastal Meeting Minutes
Product 3 - Coastal Training Program Materials
Product 4 - Town of Surry Comprehensive Plan

Task: 43 Hampton Roads Planning District Commission

Technical Assistance Program

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Final products in mailed attachments:
Product 1 - Final Report

Task: 44 Middle Peninsula Planning District Commission

Technical Assistance Program

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	3/31/2008		

Final products attached:
Final Report (Products 1-4)

Task: 45 Northern Neck Planning District Commission

Technical Assistance Program

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	3/31/2008		

Final products in mailed attachments:
Product 1 - Final Report
Product 2 - Digital Tax Maps (on CD)

Task: 46 Northern Virginia Planning District Commission

Technical Assistance Program

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Final products attached:
Final Report (Products 1-4)

Task: 47 George Washington Regional Commission

Rappahannock River Basin Commission Staff Support

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	3/31/2008		

Final products attached:
Final Report (Products 1 and 2)

Task: 48 Richmond Regional Planning District Commission

Technical Assistance Program

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	3/31/2008		

Final Products in Mailed Attachments.

Final Report: Includes Products 1- 4.

Task: 49 Virginia Beach/Virginia Aquarium and Marine Science Center

Sea Turtle and Marine Mammal Stranding Response

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	1/1/2007	12/31/2007	3/31/2008		

Final product attached:
Final Report

Task: 50 Northern Neck Planning District Commission

NNPDC Green Roof Innovative Stormwater Treatment Demonstration

Project status:	Current approved			Final deliverable(s) status:	Project Canceled
Cancelled	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 81 Dept. of Conservation & Recreation

Coastal NPS Program Management

Project status:	Current approved			Final deliverable(s) status:	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2007	9/30/2008	12/31/2008		

For the grant reporting period, the Coastal NPS Program Manager continued to implement the VA Coastal NPS Program and build new partners. The CNP Program Manager has been participating in the development of the Healthy Waters and Healthy Lands Initiative including the development of policy and Championing positions for the Governor. The DCR CNP Program Manager has been participating in the University of Virginia, Institute for Environmental Negotiation, Virginia Natural Resources Leadership Institute (VNRLI) which began in September. The CNP Program Manager participated in various meetings including the Coastal Policy Team, Coastal PDC meetings, Virginia Stream Alliance, NPSAC, and Healthy Waters. In addition, the CNP Program Manager worked with local partners in developing National Fish and Wildlife Foundation Grant applications, including an application for Low Impact Development implementation, demonstration and education at the Science Museum of Virginia.

The CNP Program Manager continued to undertake the development of the VA Networked Education for Municipal Officials (NEMO) Program through a coordinated effort between the NOAA/EPA/NPS Chesapeake Bay Office (Chesapeake NEMO), Virginia Cooperative Extension and Virginia partners. Through the coordinated process, Mathews County was selected as the pilot site for the VA/ Chesapeake NEMO Program due to their request for assistance, willingness to participate and readiness of their undertaking of the Comprehensive Plan revision. A series of five presentations were identified to educate the local constituents prior to the formal beginning of the Comprehensive Plan. The VA NEMO program relies upon the DCR Regional Offices (Regional Managers and Watershed Coordinators), DCR Division of Chesapeake Bay Local Assistance (DCBLA), Planning District Commissions, Soil and Water Conservation Districts, and Watershed groups as the delivery mechanism.

The Virginia Clean Marina Program met during the reporting period to continue the re-invigoration of the Program including revealing the strategic planning efforts to develop a sustainable program and discuss the updates to the Clean Marina materials.

The VA DCR entered into a contract with the A-NPDC to develop the final stages of a shellfish TMDL Implementation Plan (IP) for the Occohannock River. The VA DCR Coastal NPS Program Manager, through consultation with the Accomac Northampton Planning District Commission (ANPDC) and the DEQ Total Maximum Daily Load (TMDL) Program, selected the Occohannock River as the site for the TMDL Implementation Plan due to its location as a border between the two Eastern Shore Counties of Accomack and Northampton; historic shellfish resources and likelihood for success due to the active local groups in the area.

Final Products	% Completion	Anticipated Completion Date
Product #1	50%	9/30/08

Task: 82 Dept. of Conservation & Recreation

Pilot Virginia Coastal NEMO

Project status:	Current approved			Final deliverable(s) status: Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2006	9/30/2008	12/31/2008	

The Virginia Networked Education for Municipal Officials Program (VA NEMO) a partnership between the Chesapeake Bay Office of NOAA/EPA/NPS, and the state of Virginia have firmed relations with the Virginia Cooperative Extension Community Viability Program as an active coordinating partner in the VNEMO Program. This partnership will greatly benefit the outreach capacity of the Program.

Through the scoping process with Mathews County, an evening educational series was titled, “Talking About the Future – Second Tuesdays in Mathews.” The series was scheduled for 7:00 pm to 9:00 pm on the second Tuesday of each month from October through February, in the Mathews County Library and was designed to help prepare stakeholders for revising the county's comprehensive plan. Nearly 350 attendees participated in the presentations. Each session included a presentation on a different topic, followed by time for an open, facilitated conversation. Planned second Tuesday conversation topics included Land Use, Water Quality. Natural Area Protection, Economic Development and Historic Preservation. Presenters were from a range of different organizations, depending upon the topic. For this series, partners included: Middle Peninsula Planning District Commission, Virginia Cooperative Extension, Tidewater RC&D, VA Department of Forestry, VA DCR Natural Heritage Division, Mathews Maritime Foundation, and Mathews Historical Society.

The VDCR entered into a contractual agreement with the Middle Peninsula Planning District Commission to provide assistance, presentations and for the purchase of photos of the Middle Peninsula for use in the Mathews Pilot. The contract was for $1000. The remaining funding in this task is intended to support the development of a Web site, outreach materials, software purchase (ARCGIS, CommunityVIS), a possible build-out analysis, and to support another locality (if nec).

Final Products	% Completion	Anticipated Completion Date
Product #1	50%	9/30/08

Task: 83 TBD

Coastal Non-point Source Pollution Competitive Planning District Commission (PDC) grant

Project status:	Current approved			Final deliverable(s) status: Project Canceled
Cancelled	Start:	End:	Closeout:	
	10/1/2006	9/30/2007	12/31/2007	

Task: 84 Virginia Institute of Marine Science

Virginia Clean Marina Program Development and Outreach- 2007-2008

Project status:	Current approved			Final deliverable(s) status: Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

During the reporting period staff from the Virginia Clean Marina Program:
1) Continued Expansion of Marina Program: Conducted pre-VCM certification site visits to 18 marinas in this reporting period and have certified 14.
2) Implemented the Strategic Plan: all items reported here are addressed in the strategic plan and can be seen as satisfying this product.
3) Distributed Outreach Materials for Boaters:
-Shared a booth with VA DOH at the Richmond Boat Show and distributed clean boater packets. Also distributed clean boater brochures to marinas that were visited.
-Selected a production company to create a DVD on clean boating practices and clean marinas and culled their potential ideas to two themes to be further investigated.
-Attended the VA Coastal Zone Workshop and displayed a booth with clean boater and marina information.

4) Implemented the Marketing Plan:
-Continued updates on the website.
-Reinstated a quarterly newsletter with information on the program status as well as relevant new regulations and activities affecting marinas and distributed to VA marinas with email, local and state regulators, and the press.
-Investigated implementing an insurance discount for clean marinas with Flagship Brown & Brown, but determined the industry isn't ready to change insurance agencies for such a discount. Also determined that several agencies offer a nominal discount already. Marinas are calling their agents to see if such a discount is available to them.
-Working with other state Clean Marina coordinators, began organizing an upcoming National Clean Marina meeting. This will be the first time since 2002 that state coordinators will meet to discuss issues related to programs and to try to come up with a plan of action over the next few years.

Final Products	% Completion	Anticipated Completion Date
Expansion of Marina Program	100	
Implement Strategic Plan	75	9/30/08
Distribute Outreach Materials for Boaters	75	9/30/08
Implement Marketing Plan	75	9/30/08
Final Report	0	9/30/08

Task: 85 Dept. of Conservation & Recreation

Eastern Shore Shellfish Implementation Plan Finalization

Project status:	Current approved			Final deliverable(s) status:	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2007	3/31/2008	6/30/2008		

For the grant reporting period: the VA DCR entered into a contract with the A-NPDC to finalize the development of the TMDL Implementation Plan (IP) for the Occohannock River. The VA DCR Coastal NPS Program Manager, through consultation with the Accomac Northampton Planning District Commission (ANPDC) and the DEQ Total Maximum Daily Load (TMDL) Program, selected the Occohannock River as the site for the TMDL Implementation Plan due to its location as a border between the two Eastern Shore Counties of Accomack and Northampton; historic shellfish resources and likelihood for success due to the active local groups in the area. In addition, the VA DCR entered into a contractual agreement for services from MapTech, Inc to perform the technical analysis necessary to supplement the work performed by the ANPDC.

To develop the TMDL IP for the Occohannock, the ANPDC followed the format patterned after the Ips that the VA DCR has funded or developed with DCR staff. These Ips have addressed bacteria impairments (fecal coliform and E. Coli) and benthic impairments that are attributed to stressors to the benthic community including sediment and phosphorus. The ANPDC hosted three Technical Advisory meetings and two public meetings during the process.

The Contractor, MapTech, Inc. provided the documentation describing pertinent practices to address the load reductions in the TMDL, their associated efficiencies, conducted model scenarios on candidate practices and estimated the cost of proposed implementation scenarios that included technical assistance costs. MapTech ran the models necessary to confirm that the model configuration produced the TMDL results. Modeling was used to evaluate the implementation scenarios to attain the bacteria loading reductions endpoints in the TMDLs and to evaluate measurable goals and milestones by linking water quality with specific levels of implementation. The Contractor performed an analysis of expected environmental benefits for the proposed implementation actions, and provided estimates of funds required to complete implementation. Costs estimated for the needed implementation actions were included, including such items as, materials, installations, and necessary technical assistance. The Contractor attended two public meetings to provide support and respond to technical issues from the public and committee.

Final Products	% Completion	Anticipated Completion Date
Product #1	100%	
Product #2	100%	
Product #3	100%	
Product #4	100%	
Product #5	100%	
Product #6	100%	
Product #7	95%	5/15/08

Task: 91 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Section 309 Enhancement Grants

Project status:	Current approved			Final deliverable(s) status:	Project Canceled
Cancelled	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 91.01 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Public Access Data for NPMS

Project status:	Current approved			Final deliverable(s) status:	Project Canceled
Cancelled	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 91.02 Environmental Law Institute

Virginia Coastal Zone Management Program Updates

Project status:	Current approved			Final deliverable(s) status:	Attached
Closeout	Start:	End:	Closeout:		
	9/1/2007	3/31/2008	6/30/2008		

The Environmental Law Institute (ELI) reviewed Virginia's NPDES regulations and compared them to federal regulations, compiling a draft notice for auto-incorporation of the Virginia regulations under section 307(f) of the CZMA. ELI timely provided the notice and accompanying table on March 17 to VA CZM staff for review and action.

ELI reviewed and analyzed the Virginia statutes conferring authority to regulate fisheries (both inland fisheries and marine fisheries) to determine all modifications that had been made since approval of Virginia's Coastal Management Program. ELI prepared requests for NOAA concurrence in Routine Program Changes applying to Virginia's inland fisheries (Va. Code Title 29.1) and marine fisheries (Va. Code Title 28.2). ELI timely provided the draft routine programs changes, accompanying tables, and copies of the relevant statutory sections on March 17 to VA CZM staff for review and action.

Final products attached:
Product 1 - Draft Notice of Incorporation for NPDES regulations
Product 2 - Draft Program Change package for Fisheries Statutes

Task: 92 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Aquaculture Zones and Best Management Practices

Project status:	Current approved			Final deliverable(s) status:	Project Canceled
Cancelled	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 92 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Aquaculture Zones and Best Management Practices

Project status:	Current approved			Final deliverable(s) status:	Project Canceled
Cancelled	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 92.01 Virginia Institute of Marine Science - Center for Coastal Resources Management

Shellfish Aquaculture Suitability Model

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Final product in mailed attachments:
Aquaculture Vulnerability Model Final Report, Coastal GEMS fact sheet, and GIS data

Task: 92.02 Virginia Institute of Marine Science - Center for Coastal Resources Management

Identification of management strategies for promoting shellfish aquaculture in Virginia

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	7/1/2007	12/31/2007	3/31/2008		

Final products attached:
Final Report - Identification of management strategies for promoting aquaculture in Virginia

Task: 92.03 Virginia Institute of Marine Science

Management Initiatives for Shellfish Aquaculture -Development of an Environmental Code of Practice and Best Management Practices for Vi

Project status:	Current approved			Final deliverable(s) status:	Attached and in Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	12/31/2007	3/31/2008		

Final products in mailed attachments:
Product 1 - Examples of Environmental Codes of Practice/Best Management Practices (on CD)

Final products attached:
Product 2 - Draft Report: Best Management Practices for the Virginia Shellfish Culture Industry

Task: 92.04 Virginia Polytechnic Institute & State University

An Economic Analysis of a Proposed Management Plan for the Public Oyster Grounds of the Rappahannock River

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	6/1/2007	9/30/2007	12/31/2007		

Final product attached:
Final Report - An Economic Analysis of a Proposed Management Plan for the Public Oyster Grounds of the Rappahannock River

Task: 93 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Intergovenmental Decision Making

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 93.01 Middle Peninsula Planning District Commission

Middle Peninsula Public Policy Project for Waterside-Landside Use Conflicts

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted	10/31/2007
Closed	Start:	End:	Closeout:			
	10/1/2006	9/30/2007	12/31/2007			

Task: 93.02 Virginia Institute of Marine Science - Center for Coastal Resources Management

Tidal Flushing Characteristics in Virginia's tidal embayments

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Final products in mailed attachments (on CD):
Product 1 - Final Report: Tidal Flushing Characteristics in Virginia's Tidal Embayments
Product 2 - Tidal Flushing GIS data

Task: 93.03 Dept. of Conservation & Recreation - Natural Heritage

Virginia Biodiversity Assessment - Part 1

Project status:	Current approved			Final deliverable(s) status:	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2007	3/31/2008	6/30/2008		

The Virginia Biodiversity Assessment – Part 1, was executed with two basic goals. The first, to develop a comprehensive GIS layer integrating DCR-DNH's Conservation Sites (CS), Stream Conservation Units (SCU), and Element Occurrences (EO) databases, with DGIF's Threatened and Endangered Waters (T&E Waters), Wildlife Action Plan (WAP) Confirmed Reaches, and tiered Species Observations (SO) data, to model biodiversity of rare plants, animals, and natural communities and their protection status throughout Virginia. The second, to develop the analytical cornerstone for the end-product of the publicly accessible VBA – Part 2 (FY07 Task 93.03).

Joe Weber, Natural Heritage Conservation Biologist/GIS Projects Manager, has worked closely with the Information Manager and Chief Biologist at Natural Heritage, as well as with GIS Specialists at DGIF to develop this layer. As scoped, the VBA–Part 1 has analyzed various datasets, each developed by different agencies with specific goals and objectives, and created a composite layer that highlights occurrences of the rarest species and natural communities that are not protected by conserved lands or management regimes intended to conserve biodiversity. In the early stages of VBA-Part 1, an enlightening supporting task was conducted to assess land use change impacts on Virginia biodiversity. Input layers were assessed for significant encroachment by development on identified areas of high biodiversity and a change analysis was conducted using NOAA Coastal-Change Analysis Program 2005 (C-CAP) data. This analysis revealed multiple instances of direct impacts of development on Virginia's biodiversity. For example, 22% of the most heavily developed Natural Heritage Conservation Sites in the Coastal Zone were modified or eliminated due to the fact that species habitats were grossly altered. This exercise re-confirms the impacts of population growth and development on Virginia biodiversity, while highlighting the importance of maintaining datasets that capture biodiversity information using the latest base map and imagery available. Overall, VBA-Part 1 is at a 95% complete stage, as partners at CZMP, DGIF and Heritage are currently validating it.

The finalized layer will be rolled into VBA - Part 2 with ecological cores, habitat fragments, and landscape corridors from the VaNLA and with confirmed and predicted distributions of all tiered species from DGIF's WAP to produce a comprehensive synthesis of Virginia's biodiversity information.

Task: 93.04 Virginia Commonwealth University

Continuing Coastal GEMS Development and Maintenance

Project status:	Current approved			Final deliverable(s) status:	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	6/1/2007	3/31/2008	6/30/2008		

Coastal GEMS Version 2 was deployed for beta testing on 1/15/2008. This version can be found at http://128.172.160.131/gems2. CZM Program staff and other partners have provided comments on functionality of the application, and fixes were made when VCU and WorldView Solutions staffs were able to do so. VCU and WorldView Solutions, Inc. have completed the following tasks during this reporting period. Nearly all tasks have been completed. The CZM Program is currently reviewing a grouping of data layer updates that will be uploaded to the production site before the final product deadline.

Product 1: 95% complete

Task 3 - Data layers added to the production site due to the immediate needs of the CZM Program: Conservation Lands, Oyster Aquaculture Suitability Model, Hampton Roads Conservation Corridors, SAMP Boundaries, Impaired Waters, and Restored Riparian Buffer Sites (added Dec 2007), and Predicted Growth Model and Historic and Cultural Value Model (added Feb 2008).

Task 4 – Data layers were edited based on CZM Program recommendations: Marina Siting Suitability, Invasive Reeds, Scenic Rivers, Bird and Wildlife Trail, and Seaside Water Trail (completed November 2007)

Product 2: 90% complete

Task 6 – The PDF engine was completed to generate maps that can be saved and printed. Export of the results table will not occur under this grant due to limitations of the ArcIMS software.

Task 7 - An online non-spatial data secure entry application is currently functioning and CZM staff can update information as it becomes available.

Task 8 – A PDF engine was completed to allow users to save and print the Fact Sheets.

Task 9 – Data layers added to the production site: Public Access Sites (Jan 2008) and Ecological Model (Dec 2007)

Task 12 – A draft data-sharing MOU was completed by VCU staff and submitted to the CZM Program for review.

Task 15 – WorldView staff created an annotation layer for counties, cities and towns.

Product 3: 90% complete

Tasks 16, 17, and 20 are no longer applicable.

Task 19 – A data layer searching function was created by organizing data by issue area. These “map themes” currently include green infrastructure, blue infrastructure, recreation and aquaculture.

Task 21 – Data layers added to the production site: Benthic IBI (added Feb 2008). The VCLNA models and other data received from various CZM grants are under review and will go to production by the final products deadline.

Task: 94 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Shoreline Management

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 94.01 Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research Reserve System

Support for the Joint VA/MD Living Shoreline Summit

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted	5/4/2007
Closed	Start:	End:	Closeout:			
	10/1/2006	12/31/2006	3/31/2007			

Task: 94.02 Virginia Institute of Marine Science - Center for Coastal Resources Management

Recommendations for Revisions to the Wetlands Guidelines

Project status:	Current approved			Final deliverable(s) status:	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2006	12/31/2007	9/30/2008		

VIMS completed Draft revisions to the Tidal Wetlands Guidelines and submitted them for review by VMRC and Virginia CZM in February, 2008. After review, it was agreed that several additions and revisions were necessary before the grant should be closed. The closeout period was extended and a revised final product is now due on 7/15/08.

Final Products	% Completion	Anticipated Completion Date
Report Outline	100	
Revised Guidelines	90	7/15/08

Task: 94.03 Virginia Institute of Marine Science

Management-support synopsis of Virginia dune and beach assessments

Project status:	Current approved			Final deliverable(s) status:	In Mailed Attachments
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	3/31/2008		

Final products in mailed attachments (on CD):
Product 1 - Dune and Beach Act Report (Recommendations and Sands of the Chesapeake)
Product 2 - Powerpoint Presentation

Task: 94.04 Virginia Institute of Marine Science

Site Survey and Water Quality Assessment for Better Sill Design

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	3/31/2008		

Final products attached:
Final Report - Performance of Sills: St. Mary's City, St. Mary's River, Maryland

Task: 94.05 Dept. of Environmental Quality - Virginia Coastal Zone Management Program

Living Shoreline Landowner Guide

Project status:	Current approved			Final deliverable(s) status:	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2006	9/30/2008	12/31/2008		

Production of the Living Shoreline Landowner Guide is behind schedule, due in part to a vacancy in the Virginia CZM grants coordinator position. The project has been extended to 9/30/08.

Final Products	% Completion
Living Shoreline Landowner Guide	30

Task: 95 Middle Peninsula Planning District Commission

Special Area Management Plan for Dragon Run

Project status:	Current approved			Final deliverable(s) status:	Previously Submitted	10/31/2007
Closed	Start:	End:	Closeout:			
	10/1/2006	9/30/2007	12/31/2007			

Task: 95.01 Dept. of Environmental Quality - Water Quality Assessment

Mercury Monitoring in Dragon Run/Piankatank River Airshed

Project status:	Current approved			Final deliverable(s) status:	Attached
Closed	Start:	End:	Closeout:		
	1/1/2007	12/31/2007	3/31/2008		

Final product attached:
Final Report - Mercury Monitoring in the Dragon Run/Piankatank Airshed