

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from 

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

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	3/31/2012	6/30/2012	

Policy Products: One Coastal Policy Team meeting was held this period on February 15.

Coastal Partners' Workshop: The Coastal partners Workshop was held in December 7-9 at DEQ offices. The agenda and presentations are viewable at: <http://www.deq.virginia.gov/coastal/2010partnersworkshopagenda.html>. Evaluations received after the workshop were extremely positive and the workshop was key in helping the Virginia CZM Program to identify the next topic for Focal Area grants funding.

Final Section 309 Coastal Needs Assessment & Strategy: The Virginia CZM Program submitted the final draft of the Section 309 Needs Assessment and Strategy to NOAA on February 8, 2011. The draft was approved as final on April 6, 2011. It will be posted on the Virginia CZM website in May once final formatting is complete.

RPCs and Amendments: The CZM Program contracted with the Environmental Law Institute to address several program change issues, including an analysis of policies related to state-listed threatened and endangered species and identifying a clear list of its enforceable policies for federal consistency.

Grant Administration, Management & Reporting: A Section A, Semiannual Progress Report, a Section B Agency Report, and a Section C Success Stories Report were compiled and submitted to NOAA on October 30, 2010 for the reporting period of March 31, 2010 – September 30, 2010. The CZM Manager and Coastal Planners monitored grant activities through phone calls and site visits. And the Grants Coordinator and CZM Manager processed extension and budget amendment requests, 306 A documentation approvals, SAC removals, and reprogrammed money using the Grants Online system. The Grants Coordinator began the process of requesting bids for conversion of the grants database from Access to either Oracle or SequelServer to ensure future technical support from VITA.

FY 2011 CZM Grant Application: Preparation of the Draft FY 2011 CZM Application began in February 2011. Two focal areas were identified (Seaside Restoration and PDC Competitive grants) but likely budget cuts led to a decision to prepare a draft application with only the seaside Restoration focal area given that funding was included for 50% of the NEMO position which is designed to assist localities.

FY 2012 CELCP Grant Application: The Virginia CZM Program is in the process of finalizing three proposals for submission to NOAA for FY 2012 CELCP funding: 1) Lynnhaven Estuary Protection in Virginia Beach, to protect 82 acres at a request of \$3M; 2) Virginia Eastern Shore Land Protection to protect 350 acres at a request of \$2.1M; and 3) Mattaponi Coastal Lands Acquisition in King William County to protect 188 acres at a request of \$414,900.

Performance Measures: On October 30, 2010, CZM staff submitted a Performance Measures report for the time period of October 1, 2009 – September 30, 2010.

Mid-Atlantic Regional Council on the Ocean Documents: A final version of the MARCO Highlights document was posted on the MARCO website: [www.midatlanticocean.org](http://www.midatlanticocean.org) and the Virginia CZM Program is currently having 300 copies of the report printed digitally. The Virginia CZM Manager

Now serves as the leader for MARCO's CMSP Action Team and convened a conference call among state and federal agencies to discuss the work plan. Initial work will focus on gathering additional data layers for the MARCO portal and after the Regional Planning Body is set up by the National Ocean Council, the group will work the RPB on stakeholder engagement.

Section 312 Evaluation Binder: As of now, no 312 Evaluation has been scheduled.

Final Products	% Completion	Anticipated Completion Date
Policy Products <input type="checkbox"/>	50	September 30, 2011
RPCs and Amendments <input type="checkbox"/>	20	September 30, 2011
2010 Coastal Partners' Workshop	100	
Final Section 309 Coastal Needs Assessment & Strategy <input type="checkbox"/>	100	
Grant Administration, Management & Reporting <input type="checkbox"/>	50	September 30, 2011
FY 2011 CZM Grant Application <input type="checkbox"/>	75	June 1, 2011
FY 2011 CELCP Grant Application <input type="checkbox"/>	50	May 11, 2011
Performance Measures <input type="checkbox"/>	100	
Mid-Atlantic Regional Council on the Ocean Documents <input type="checkbox"/>	50	September 30, 2011
Section 312 Evaluation Binder	0	Dependent on schedule from NOAA

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

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

See Task 1 for deliverables.

Task: 1.02 Virginia Commonwealth University  
Coastal Management GIS Support and Coastal GEMS Maintenance

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

-VCU CES staff performed Coastal Gems maintenance during this grant project period. Tasks were to refresh map services and update data and cartography in the map file. During this period, data and symbology in the GEMS application was updated on two currently in production layers and three new layers were added. The Coastal GIS Coordinator processed these GIS data layers for effective display on Coastal GEMS and uploaded layers to VCU to be added to Coastal GEMS. Layers added in this period include: Coastal Avian Protection Zones (CAPZ), Publically Accessible Conserved Lands, and Healthy Watersheds. Layers updated in this period include: Healthy Waters and Conserved Lands. Coastal Gems remained operational during these updates and was only offline to install software/security updates or to refresh map services. Google Analytics remains operational and sends an email PDF report to CZM staff weekly to show access and web statistics for the Gems application. From October 1, 2010 to March 31, 2011, Coastal GEMS received 786 visits from 426 unique visitors resulting in 1,109 pageviews and an average site visit time of 2 minutes and 21 seconds. Data requests and other inquiries received regarding the Coastal GEMS application and the datasets it hosts were responded to in a timely manner. Coastal GEMS can be accessed online at: [www.coastalgems.org](http://www.coastalgems.org)

-Utilizing slides and handouts prepared by the Coastal GIS Coordinator that outline the main features and functions of Coastal GEMS, DEQ Environmental Education staff presented GEMS as a tool for educators to help address curriculum needs for advanced placement high school geography classes at the 2010 VA Council for Social Studies Conference. The Coastal GIS Coordinator assisted in planning and running the 2010 VA CZM Partners Workshop by coordinating the 'New Spatial Data Tools for CZ Management' session, organizing and leading the audience response component of the next focal area discussion, and acting as AV technician for the entire three day event.

-The Coastal GIS Coordinator attended and assisted in two sensitive resource area prioritization exercises convened to update the US Coast Guard's geographic response plan for spill response in the Chesapeake Bay watershed. The Coastal GIS Coordinator provided/helped utilize numerous data layers from the VA CZM Program's GIS data library to inform priority area mapping exercises and identified several experts/stakeholders not originally included on the prioritization panels that were able to attend and provide valuable input to the process.

-GIS map products created for CZM staff/partners by the Coastal GIS Coordinator include maps for the VA CECLP Plan and proposals, large scale maps of the VA CZ and PCA Dataset, James River Oyster Sanctuary maps for VMRC, maps for the VA CZM website and magazine, spatial data and associated maps of the CAPZ data, and maps illustrating GIS products from other CZM grants including maps of seaside avian distribution and seaside recreational use.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Coastal GEMS Maintenance and Updates <input type="checkbox"/>	50%	9-30-2012
Coastal GEMS Data Liaison <input type="checkbox"/>	50%	9-30-2012
Coastal GEMS Training <input type="checkbox"/>	50%	9-30-2012
GIS Map Products <input type="checkbox"/>	50%	9-30-2012

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**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error**

Task: 1.03 Dept. of Environmental Quality - Virginia Coastal Zone Management Program			
Virginia CZM Program Outreach			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:
	10/1/2010	9/30/2011	12/31/2011

**Communication/Education/Marketing Materials – Product 1:**

Virginia CZM Outreach Coordinator finalized design of Virginia Coastal Zone Management magazine Summer/Fall 2010 and coordinated printing and distribution. Began production of Summer/Fall 2011 Virginia Coastal Zone Management magazine, scheduled to be released on September 28. Worked with Virginia CZM Program Manager to finalize design of the MARCO Highlights publication. Reprinted the Eastern Shore native plant guide “Native Plants of Accomack and Northampton” including updates to add additional demonstration sites. Secured production of new radio ads and airtime on WESR for Spring Phase of campaign – April 2-May 28. Ads can be heard at <http://www.deq.virginia.gov/go-native>.

**Public Campaigns, Events, Presentations and Exhibits – Product 2:**

Outreach Coordinator, along with CZM staff, planned and coordinated logistics for the 2010 Virginia Coastal Partners Workshop. Presented an overview and status of the Plant ES Natives campaign and assisted in facilitating discussion of a new Virginia CZM Program focal area. All workshop presentations were posted on the Virginia CZM website at <http://www.deq.virginia.gov/coastal/2010partnersworkshopagenda.html>.

Outreach Coordinator designed and conducted, with members of Plant ES Natives Team, a ½ day training session for “Community Leaders (CLs)” in March. CLs will assist in continued implementation of the campaign including: giving presentations, scheduling and staffing exhibits and representing the campaign at public events; serving as liaisons with garden centers, e.g. helping to tag plants and to monitor the availability and popularity of natives; and planning and on-site volunteering for an “Eastern Shore Native Plant Celebration Day” and self-guided tour of demonstration sites this fall. Twenty-six new “Community Leaders” received their official CL pin, and copies of the reprinted guide to help distribute. Response to opportunities to help advance the campaign was enthusiastic, and CLs will now be split into teams, and follow-up meetings with each team scheduled to provide each team with specific guidelines, as well as use of a new community Leader Outreach Kit. Began design of a Community Leader Outreach Kit for CLs. CLs were also asked for their general feedback on the campaign and they shared good observations and suggestions. This feedback will also be an important facet of the CL program. There were a number of people interested in becoming CLs that could not attend the training, and a second training will be conducted in the near future.

Outreach Coordinator worked with CZM Manager and DCR staff to plan and conduct an October 2011 dedication event at Kiptopeke State Park for CZM/Taylor Tract acquisition and restoration, including unveiling of new native plant demonstration garden and educational signage.

Outreach Coordinator maintained and designed exhibits and facilitated displays at 2010 ES Birding and Wildlife Festival (October; new exhibit on birds and wind energy); Dragon Run Day (Virginia CZM Projects in Middle Peninsula; October); Urbanna Oyster Festival (Living Shorelines, Oyster Gardening, Virginia CZM Program; November); Winter Wildlife Festival, Virginia Beach (General Program, Oyster Gardening; January; DGIF sponsored event).

**Website Development and Maintenance – Product 3:**

Conversion of the Virginia CZM website and sub-sites was completed, including needed fixes to navigation and coding errors introduced by conversion. Updates are ongoing.

Final Products	% Completion	Anticipated Completion Date
Communication/Education/Marketing Materials <input type="checkbox"/>	50%	September 31, 2011
(Virginia Coastal Zone Management Magazine) <input type="checkbox"/>	(20%)	(September 31, 2011)
Website Development/Maintenance <input type="checkbox"/>	50%	September 31, 2011
Campaigns/Events/Presentations/Exhibits <input type="checkbox"/>	50%	September 31, 2011

Task: 2 Dept. of Environmental Quality Subcontract			
Quick Response Grants			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Funds Transferred Out of Task
Proposed	Start:	End:	Closeout:
	10/1/2010	3/31/2012	6/30/2012

None of the \$15,825 in this task has yet been allocated. Given FY11 and 12 budget uncertainties, we are delaying allocation of these funds until we know what the most pressing priorities will be if there is a significant budget cut that must be absorbed. One funding need will be the conversion of the VA CZM Grants Database from Access to Sequel Server or Oracle. DEQ's Office of Information Services has not yet completed the bid package for this work. Once that is complete and bids are received, we'll have a better sense of the conversion cost

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Task: 2.01 Back Bay Restoration Foundation				
Back Bay Restoration Foundation State of the Bay Conference				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Canceled
Open	Start:	End:	Closeout:	
	1/1/2011	6/30/2011	9/30/2011	

This project was terminated for convenience. The 2010 State of the Bay conference was not held because of staff turnover at the Back Bay Restoration Foundation.

Task: 3 Dept. of Environmental Quality - Environmental Impact Review				
EIR and Federal Consistency				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

During the first half of FY 2010, the Office of Environmental Impact Review/Federal Consistency (OEIR) reviewed 66 development projects and management plans for consistency with the VCP. This represents 71% of the total amount of projects (93) reviewed during this period. Major state projects accounted for 10 projects, 41 were federal actions, and 15 were federally funded projects (predominantly local government projects). The 41 federal projects included 32 federal agency activities and 9 federal licenses, approvals, 2 HUD mortgage insurance projects (submitted as a residual category pursuant to the federal consistency regulation 15 CFR 930.31©). All federal consistency determinations and federal consistency certifications were completed within the established legal deadlines. On November 22, 2010, Dominion Virginia Power formally requested DEQ to begin a coordinated review of the Federal Consistency Certification (FCC) submitted for the Combined License application to the Nuclear Regulatory Commission and the U.S. Army Corps of Engineers permit application for the proposed Unit 3 at the North Anna Power Station in Louisa County. DEQ distributed the consistency document to applicable state agencies, localities and planning district commissions. Notice of the availability of the FCC was posted on DEQ's web site on November 24, 2010. DEQ held a public hearing on March 3, 2011 at the Louisa County Middle School to invite oral and written comments from the public on the proposal. Notice of the public hearing was published in the Richmond Times Dispatch, Fredericksburg Free Lance-Star, and the Central Virginian. The public comment period ended on March 18, 2011. Public comments received by the deadline will be incorporated into DEQ's final response to the FCC. OEIR has prepared a summary of public comments and distributed it to reviewers. Once relevant issues and concerns have been appropriately addressed, OEIR will complete the Commonwealth's review of the FCC and respond. The six-month legal deadline for the Commonwealth's response is May 20, 2011.

The OEIR continues to maintain a website for Federal Consistency Reviews and can be accessed through DEQ's main webpage or found at <http://www.deq.virginia.gov/eir>. The webpage is updated weekly.

Final Products	% Completion	Anticipated Completion Date
Federal consistency determinations and certification responses <input type="checkbox"/>	50	9-30-2011
Consistency Information/Outreach Efforts <input type="checkbox"/>	50 <input type="checkbox"/>	9-30-2011

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**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
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Task: 4 Dept. of Environmental Quality - Environmental Education			
Community Environmental Education			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:
	10/1/2010	9/30/2011	12/31/2011

1. Community Education Leadership Program: Development of Coastal Community Educator Program began. Community Education Specialist, David Ruble, developed a survey instrument with VOEE Program Manager (Ann Regn), CZM Outreach Coordinator (Virginia Witmer), and the Mid-Atlantic Marine Education Association (Lisa Ayers Lawrence) to be used to create the Coastal Community Education Leadership Program's Educator Profile. Classes currently available through the CCELP include Team Leader Training for the Livable Neighborhoods Water Stewardship Campaign (water conservation), an Introduction to Climate Science for Virginians, and an Introduction to Coastal GEMS. Classes were advertised and are being scheduled through Regional PDCs with the first being the Richmond Regional Planning District Commission which is scheduled for May 10.

2. Community Education Training/Workshops: Community Education Specialist, David Ruble, delivered two Places We Live workshops with a focus on Coastal GEMS to the Virginia Council for the Social Studies and to community educators as part of the Watershed Educators Institute. Comments on the curriculum and Coastal GEMS from Social Studies teachers indicate these tools would be able to meet new AP standards for Geography. Feedback from the Watershed Educators Institute participants indicates a need for a computer lab for future in-depth Coastal GEMS educational experiences.

3. Capacity Building: To strengthen delivery of Environmental Education, Ann Regn, VOEE Program manager, worked with the Virginia Association of Science Teachers to plan and implement an environmental track for their professional development Institute in November featuring sustainability and watershed topics. A new curriculum package, "Window Into A Green Virginia," was introduced and posted. Ann served on several grant review panels to identify funding priorities and leverage resources--Virginia Environmental Endowment, Chesapeake Bay Restoration Fund, the Foundation for Virginia's Natural Resources and NOAA Chesapeake Bay BWET. Where appropriate, the office follows up with partners and schools to direct them to Virginia Naturally mini-grant program or advises how applications can best meet funder goals. Ann participated in quarterly meetings of the Chesapeake Bay Education Workgroup, including the Environmental Literacy Plan meeting with federal and state program managers. Ann is co-chairing a regional group, the Mid-Atlantic Roundtable, to leverage non-Bay environmental education efforts such as ozone, children's health, pharmaceutical disposal, etc. She coordinated a workshop, Collaborative Leadership in Environmental Education and Outreach which featured CZM's Southern Tip Partnership. Ann worked with the Keep Virginia Beautiful campaign to coordinate kick-off of "A Bag's Life" Campaign, including a school and student competition. She introduced the VA Asthma Association to a number of air quality resources.

Final Products	% Completion	Anticipated Completion Date
Community Leadership <input type="checkbox"/>	50%	Sept 2011
Community Training <input type="checkbox"/>	50%	Sept 2011
Capacity Building <input type="checkbox"/>	50%	Sept 2011

Task: 5 Dept. of Environmental Quality - Chesapeake Bay Program			
Water Quality Improvement Fund Match (City of Richmond Wastewater Plant Nutrient Removal Upgrade)			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:
	10/1/2010	9/30/2011	12/31/2011

Retrofitting the City of Richmond's wastewater treatment plant with enhanced nutrient removal technology continues. Construction began in February 2009 and is scheduled for completion by September 2011. To-date, \$12,181,132 of the \$45,674,244 grant has been paid to the City.

In the period since October 2010, reimbursements totaling a little over \$425,000 have been made to the City for this project, which is about 44% of the \$960,951 in State General Funds needed to provide a match for the Coastal Zone Management Program.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Certificate to Operate – City of Richmond nutrient reduction system <input type="checkbox"/>	44%	Sept. 2011

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Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
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Task: 6 Virginia Marine Resources Commission			
Permit Review and Compliance			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:
	10/1/2010	9/30/2011	12/31/2011

During the reporting period, VMRC received a total of 862 joint permit applications. Actions were completed on 841 projects some of which were received prior to the reporting period. During the reporting period, 125 compliance inspections were conducted for previously issued permits. Also 43 compliance inspections for the random sample of 130 projects permitted by local wetland boards were completed.

During the reporting period, local wetlands boards throughout Tidewater Virginia acted on 182 projects involving tidal wetlands. Of this total, 125 were approved as proposed, 54 were approved as modified, and 3 were denied. A total of 28 projects required compensation either on or off site (10), in a mitigation bank (3) or through payment of an in lieu fee (15), accounting for 11,287 square feet of tidal wetland impacts.

Final Products	% Completion	Anticipated Completion Date
Collect permit compliance data for projects permitted by VMRC <input type="checkbox"/>	Ongoing	
Collect permit compliance for wetland projects permitted in 2008 <input type="checkbox"/>	33 %	September 2011
Compile data for entry into data base <input type="checkbox"/>	50%	September 2011

Task: 7 Dept. of Conservation & Recreation - Natural Heritage			
Habitat Conservation/Locality Liaison			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:
	10/1/2010	9/30/2011	12/31/2011

--Multiple presentations were given to localities and land trusts including the James River Association, Hampton Land Conservancy, Arlington County, the City of Williamsburg, and the City of Alexandria. The presentations included an overview of DCR's Natural Heritage Program, the Locality Assistance Program, The Natural Heritage Data Explorer (NHDE) website, the Virginia Conservation Lands Needs Assessment (VCLNA), the Land Conservation Data Explorer (LCDE) and the Wetlands Catalog portion of Coastal GEMS.

-- For 10/01/10 through 3/31/11, 458 projects were reviewed for impacts to natural heritage resources in the coastal zone (44% of the projects reviewed statewide). Several of the projects were for Wallops Flight Facility including a final review of shoreline restoration and plans for an unmanned aerial systems' airstrip. As a result of working with the locality liaison, Wallops requested access to natural heritage digital data and has contracted DCR-DNH to perform a re-inventory of resources at the north end of Wallops Island where several rare birds, natural communities and plants have been documented. Additionally, as a result of comments from DCR and others, an alternative energy project on Wallops Island that proposed utility scale wind turbines and solar panels was moved from the island to the Flight Facility on the mainland and the wind turbines were reduced to residential scale.

--70% of Localities and Land Trusts in the coastal zone have Natural Heritage data.

--Locality Assistance: The Locality Liaison has contacted 15 Coastal localities and is working with them to add Natural Heritage language and maps into their comprehensive plans and/or supporting documents. The Locality Liaison has provided language, tables and maps of Natural Heritage Conservation Sites to Essex County, King George County, Northampton County, Mathews County and Prince William County. A spreadsheet has been developed to tract localities' schedules for comprehensive plan updates and will be used to continue contacting local staff.

The Locality Liaison gave a presentation to the Middle James Roundtable on March 15, 2011. The presentation covered the benefits of riparian buffers for water quality and natural heritage resources. The Locality Liaison attended the 2010 CZM Coastal Partner's Workshop at DEQ in Richmond on December 8, 2010.

Funding is currently being sought to rebuild the NHDE on a different platform to enhance the functionality of the website application.

Final Products	% Completion	Anticipated Completion Date
Project Review <input type="checkbox"/>	50%	September 30, 2011
Locality Assistance Program Presentations <input type="checkbox"/>	33%	September 30, 2011
Natural Heritage Data for Coastal Partners <input type="checkbox"/>	50% <input type="checkbox"/>	September 30, 2011
Improvements to Natural Heritage Data Tools <input type="checkbox"/>	30%	September 30, 2011
Final Report	0%	September 30, 2011

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Task: 8 Virginia Institute of Marine Science  
Tidal Wetlands Management Technical Support

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: 10/1/2010	End: 9/30/2011	Closeout: 12/31/2011

CCRM Advisory Activity:

	Information Requests	Add'l Field Visits	Meetings	Advisory Reports	Website Hits
OCT	158	06	27	36	520
NOV	128	08	14	33	673
DEC	99	03	17	27	495
JAN	217	05	11	38	471
FEB	203	04	20	44	352
MAR	234	06	16	39	435

Wetlands Reports:

The Center for Coastal Resources Management continues to post Joint Permit Applications with VRMC assigned numbers in a searchable database on our website. To view the original shoreline permit applications, as well as the associated VIMS report, additional information, photos, and public hearing information for every application reviewed by the Wetlands Program staff please see:  
<http://ccrm.vims.edu/perms/newpermits.html>.

Publications:

Rivers and Coast, Fall 2010, Vol. 5, No. 3, Derelict Crab Pots in the Chesapeake Bay  
[http://ccrm.vims.edu/publications/pubs/rivers&coast/vol5\\_no3\\_marine\\_debris\\_1.pdf](http://ccrm.vims.edu/publications/pubs/rivers&coast/vol5_no3_marine_debris_1.pdf)

Rivers and Coast, Spring 2011, Vol. 6, No. 1, Coastal Resource Management Planning  
[http://ccrm.vims.edu/publications/pubs/rivers&coast/vol6\\_no1\\_shoreline\\_mgt.pdf](http://ccrm.vims.edu/publications/pubs/rivers&coast/vol6_no1_shoreline_mgt.pdf)

CCRM e-News February 2011, (workshop announcement)

Virginia Wetlands Report, Spring 2011, Volume 26, Issue 1, Shoreline Management Workshop Registration  
[http://ccrm.vims.edu/publications/publications\\_topics/vwr/VWR\\_2011\\_Spring.pdf](http://ccrm.vims.edu/publications/publications_topics/vwr/VWR_2011_Spring.pdf)

Workshops:

Tidal Wetlands Workshop:  
11/4/10 CCRM Updates

Final Products	% Completion	Anticipated Completion Date
Product #1 – Permit Application Reviews <input type="checkbox"/>	50	Sept 30, 2 2011
Product #2 - Tidal Wetlands Workshops	50	Sept 30, 2011
Product #3 – Outreach Publications <input type="checkbox"/>	50	Sept 30, 2011
Product #4 – Wetlands Program Database <input type="checkbox"/>	50	Sept 30, 2011

Task: 9 Virginia Institute of Marine Science

2010 Submerged Aquatic Vegetation Distribution and Abundance Survey of Virginia's Chesapeake Bay and its Tributaries

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: 10/1/2010	End: 12/31/2011	Closeout: 3/31/2012

VIMS successfully completed the acquisition of aerial photographs of the entire bay and tributaries and Seaside bays for the 2010 SAV annual survey.

VIMS also successfully completed ortho-rectifying all flightlines, mosaicking all the quadrangles, and photo-interpreted SAV on all quadrangles for the Chesapeake Bay and the easide Bays. We distributed the baywide 2010 SAV numbers to all participants by the beginning of March. 2010 SAV data can now be viewed at:  
<http://web.vims.edu/bio/sav/sav10/index.html> and also on our interactive map: <http://web.vims.edu/bio/sav/maps>.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Draft Final Report <input type="checkbox"/>	50 <input type="checkbox"/>	June, 2011
Final Report <input type="checkbox"/>	0	Dec., 2011

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Task: 10 Dept. of Environmental Quality Subcontract Eastern Shore Land Acquisition			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Pending
Proposed	Start:	End:	Closeout:
	10/1/2010	3/31/2012	6/30/2012

Virginia's Secretary of Natural Resources disapproves of fee simple land acquisition by state agencies and it is not yet clear if he would approve of spending these funds on purchase of a conservation easement. He has approved an FY 12 CELCP application for the purchase of a conservation easement on the Trower property on the lower bayside of the Eastern Shore. The Southern Tip Partners (USFWS, DCR, DGIF, TNC and VA CZMP) will continue to seek opportunities to purchase conservation easements or alternatively may use the funds for habitat restoration on already publicly owned lands. In addition, given the budget uncertainties for FY 11 and 12, a decision will be delayed at least until there is a better sense of the magnitude of potential budget cuts. In case these funds are needed for core staff funding.

Task: 11 Dept. of Conservation & Recreation Sustainable Communities: Final PCA Map & Outreach Efforts			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:
	10/1/2010	9/30/2011	12/31/2011

A new Coastal Virginia Ecological Value Assessment (VEVA) was conducted by integrating the existing Priority Conservation Areas (PCA) (NOAA Grant # NA 08NOS4190466; FY08; Task#11.02) with component datasets from the "Estuarine Blue Infrastructure: Final Priority Conservation Areas for Chesapeake Bay and its Tidal Tributaries and Back Bay", recently developed by the Virginia Institute of Marine Science (NOAA Grant # NA08NOS4190466; FY 2008; Task 11.03). This integration involved adding nine of the estuarine- and coastal bay- specific data layers from the VIMS product (these nine datasets a.k.a. the Cumulative Resource Assessment (CRA)) to the suite of original terrestrial and freshwater resource layers in the original PCA. The CRA attributes were reclassified to merge easily with the 5-ranked classification used in the original PCA. In addition, DCR's designated "Healthy Waters" watersheds were integrated into the new PCA, by VCU. The final products – a GIS layer (Task 1 deliverable) and a map specifically developed for CELCP land conservation prioritization (Task 2 deliverable) - were then reviewed by the project team for accuracy and quality control. These deliverables are available and have been provided to the Virginia CZMP for integration into ongoing conservation planning efforts. The only remaining deliverable from Tasks 1 and 2 is the summary methods report for the map layer development, which is currently being finalized.

Outreach (Task 3) began with development of an online Locality Survey of Future Conservation Planning Needs, to guide the delivery of and support for use of VEVA products, as well as future CZMP conservation planning tools. The survey was distributed to coastal zone PDC contacts, requesting their further distribution to a wide audience of planners, local officials, and other pertinent individuals. To date, about 20 responses have been received after a month of open survey. A Coastal VEVA Handout was also developed for the March 15th Middle James Roundtable Annual Meeting, as well as for general distribution. This handout will be adapted into a final handout (single page, double-sided, 5" by 8" color cardstock) to be printed and distributed widely. Short presentations were developed by DCR and delivered at the Coastal Zone Planning District Commission meeting on March 28 and the Environment Virginia conference on April 6. Content will also be developed for longer presentations at conferences and workshops, as well as for meetings with local planners and government officials. Future presentations are planned for the VA Chapter of the American Planners Association, VA Assn of Counties, and VA Assn of Soil and Water Districts annual conference, as well as the VA PDC summer conference, York River Research Symposium, and quarterly planning director meetings for each of the eight Coastal Zone PDCs. DCR created a shared outreach calendar to facilitate scheduling and allocation of speaking duties. A sharepoint site set-up is also underway, which will allow project partners to share and collaborate on edits to images, map layouts, powerpoint slides, and other documents among group members.

Final Products	% Completion	Anticipated Completion Date
Final Coastal Virginia Ecological Value Assessment Map <input type="checkbox"/>	90	April 2011
Updated CELCP Land Acquisition Priorities Map <input type="checkbox"/>	100	March 2011
VEVA Educational Materials & Delivery <input type="checkbox"/>	25	September 30, 2011

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 12.01 Accomack County

Accomack County Sustainable Community Project

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	10/1/2010 3/31/2012 6/30/2012		

Accomack County lost its Director of Planning shortly after the grant paperwork was signed and returned to DEQ. With a staffing shortage, no activity has taken place and not much is anticipated until a new Director has been hired and is on board. The position has been advertised, and the Accomack County Administrator is currently evaluating applications.

County staff has obtained a six month extension from DEQ to allow the project to be completed after the new Director has been hired.

County staff has verified the ability of the Green Infrastructure Center (GIC) to participate in the project. The GIC anticipates a fall start date.

Final Products	% Completion	Anticipated Completion Date
Blue & Green Infrastructure Guide <input type="checkbox"/>	0%	12/31/2011
Blue & Green Infrastructure Web Page <input type="checkbox"/>	0%	12/31/2011
Blue & Green Infrastructure Development Workshop Report <input type="checkbox"/>	0%	12/31/2011
Sustainable Community Comprehensive Plan Element <input type="checkbox"/>	0%	3/30/2012
Sustainable Community Web Pages <input type="checkbox"/>	0%	3/30/2012
Sustainable Community Workshop Report <input type="checkbox"/>	0%	3/30/2012

Task: 12.02 Northampton County

Northampton County Blue & Green Infrastructure Protection

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	2/1/2011 12/31/2011 3/31/2012		

Product #1: During this reporting period, the county conducted the appropriate procurement process and entered an agreement with Herd Planning & Design, with Renaissance Planning Group as a subcontractor, to conduct the facilitated process to review and update vision documents for the waterfront villages of Oyster and Willis Wharf. Two (2) public meetings have been scheduled with residents and property owners in the communities and publicized via email, a county website posting, and with a press item in the Eastern Shore News.

Product #2: Work has not yet begun on this component of the grant.

Final Products	% Completion	Anticipated Completion Date
Update of Waterfront Village Visions <input type="checkbox"/>	1	5/31/11
Northampton County Stormwater Management Plan <input type="checkbox"/>	0	9/30/11

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 12.03 George Washington Regional Commission  
Developing a Blue-Green Infrastructure Plan for the GW Region

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: 10/1/2010	End: 9/30/2011	Closeout: 12/31/2011

In October 2010, the existing Green Earth Subcommittee of GWRC's Green Government Commission (consisting of mostly local interested citizens) recruited one planning staff member from each locality to join the group, transforming it into the steering committee for the development of the Regional Green Infrastructure Plan. GWRC staff researched other green infrastructure plans and reports and suggested a template for the GWRC Regional GI Plan. The group developed goals and objectives in January 2011. A PowerPoint presentation (in regional and customized local versions for each of the five member communities) was created, describing green infrastructure planning, including an overview of GWRC's process, and presented to the GWRC Green Government Commission, the George Washington Regional Commission, and Spotsylvania County's Planning Commission. Other Planning Commission meeting presentations are scheduled for April 2011. The group will synthesize the comments from these meetings and incorporate the ideas into the writing of the plan. In February and March 2011 the steering committee started researching implementation tools and reviewing the 2009 green infrastructure maps to evaluate how to present and emphasize the eco-cores and corridors as the backbone of the eventual green infrastructure plan.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Prod. #1: Regional Green Infrastructure Plan Report	50	September 30, 2011
Prod. #2: Green Infrastructure Plan Comment Summary	25	September 30, 2011
Prod. #3: GWRC Action on Green Infrastructure Plan <input type="checkbox"/>	0	September 30, 2011

Task: 12.04 Hampton Roads Planning District Commission  
Sustainable Communities Focal Area: Climate Change in Hampton Roads

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: 1/1/2011	End: 12/31/2011	Closeout: 3/31/2012

Work for this project began in January 2011. This project expands upon much of the work conducted during FY2009. So far, HRPDC staff has collected data from localities for economic analysis of flooding and sea level rise impacts, including possible shifts in economic activity within and away from the region. HRPDC staff has also begun discussions with local government staff on possible climate change adaptation policy work sessions. HRPDC staff has worked with partners involved in the previous year's listening sessions in Virginia Beach to develop a plan for presenting the results of those sessions to stakeholders and officials, including the Virginia Beach City Council and the Hampton Roads Planning District Commission.

Final Products	% Completion	Anticipated Completion Date
Assessment of Economic Impacts <input type="checkbox"/>	10	December 31, 2011
Tool Development: Sea Level Rise Impacts <input type="checkbox"/>	10	December 31, 2011
Policy Recommendations: Built Environment <input type="checkbox"/>	10	December 31, 2011
Policy Recommendations: Natural Environment <input type="checkbox"/>	10	December 31, 2011
Development of a Framework for the Response to Climate Change in Hampton Roads <input type="checkbox"/>	10	December 31, 2011

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2010

Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 12.05 Middle Peninsula Planning District Commission  
Initiating Adaptation Public Policy Development

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:      End:      Closeout:	
	10/1/2010   12/31/2011   3/31/2012	

Product 1 (Education): MPPDC staff has continued to provide outreach efforts to the general public during the first six months of this project. MPPDC staff presented at The Impact of Climate Change on Water Resources and Water Infrastructures: Mitigation and Adaptation at the Local Level Workshop hosted by Virginia Tech that focused on the ecologic and economic impacts of sea level rise within the Middle Peninsula. MPPDC staff also presented at the Coastal Zone Management Program Workshop and hosted a group of students from Virginia Tech to discuss the regional impacts of climate change and sea level rise.

Product 2 (START-kit): To provide policy options to the Commission that address climate change and sea level rise impacts, MPPDC staff has been working to develop a START (Start Adaptation and Response Today) kit. Therefore MPPDC staff has researched how other localities (ie. domestically and internationally) are currently dealing with these impacts. Through this research, MPPDC staff has collected local, state, national and international case studies and has collected sample ordinances to integrate into the START kit. Additionally, MPPDC staff has reviewed the Middle Peninsula All-Hazards Mitigation Plan to understand how the region is currently addressing sea level rise/coastal inundation as well as climate change. To include local scientific data into the kit, MPPDC staff has partnered with the Chesapeake Bay National Estuarine Research Reserve to develop a local climate change/sea level rise factsheet that will include both local scientific data as well as local anecdotal information. Finally, Virginia Tech has partnered with the MPPDC to focus on adaptation within the Middle Peninsula. MPPDC staff has been working closely with Virginia Tech students and faculty to develop practical adaptation policy options for the region that may be able to supplement the START kit.

Product 3(Public Policy Adoption): Upon completion of the START kit, MPPDC staff will present the kit to each member locality of the Middle Peninsula Planning District Commission to encourage policy changes that will address climate change and sea level rise impacts.

Final Products	% Completion	Anticipated Completion Date
Continued Education – General Public and Elected Officials <input type="checkbox"/>	50%	Sept 2011
START kit	50%	Sept 2011
Public Policy Adoption <input type="checkbox"/>	0%	Sept 2011

Task: 12.06 Northern Neck Planning District Commission  
Northern Neck Blue-Green Infrastructure Protection and Outreach

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:      End:      Closeout:	
	10/1/2010   9/30/2011   12/31/2011	

NNPDC staff have been conducting a literature review of documents regarding the available practices that are available to Virginia coastal localities to protect land within their jurisdiction. NNPDC staff have developed a preliminary outline for blue green infrastructure implementation alternatives. This outline structures the report so that the most laissez-faire policies are at the beginning of the document and the more regulatory and enforceable actions conclude the report. NNPDC staff informed the Planning Commissions of both Lancaster and Northumberland of the creation of this document, and both expressed interest in having that data available to them.

NNPDC staff have begun mapping natural areas in the Northern Neck region that are near coastlines and could possibly be impacted by rises in sea level. NNPDC staff will contact DCR-DNH to get the newly revised PCA data to supplement locally identified natural areas. Once those maps are completed, NNPDC staff will consult with county staff to determine the accuracy of these maps and to identify any areas that might have been missed. NNPDC staff hope to utilize newly acquired LIDAR data for Northumberland and Lancaster Counties for the analysis. If the LIDAR data is not available in the useable format, NNPDC will utilize Lancaster County's 2 foot elevation contours created from the 2009 VBMP aerial photography and use the older VirGIS elevation data for the three remaining counties.

Final Products	% Completion	Anticipated Completion Date
NNPDC Green Infrastructure Implementation Alternatives Report <input type="checkbox"/>	40%	September 30, 2011
NNPDC Climate Change Vulnerable Infrastructure Assessment <input type="checkbox"/>	20%	September 30, 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error**

Task: 12.07 Northern Virginia Regional Commission				
NVRC Sustainable Shoreline Community Management				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

Through the third phase of the Sustainable Shoreline and Community Management in Northern Virginia project, NVRC has explored opportunities to raise awareness of inundation from sea level rise and storm surge across the region's tidal shorelines by participating in regional and state workshops. Additionally, NVRC staff have prepared materials for incorporating the dialogue into local and regional planning documents, specifically the Northern Virginia Hazard Mitigation Plan and the City of Alexandria's Energy and Climate Change Action Plan (<http://www.alexandriava.gov/goto.aspx?u=http%3A//alexandriava.gov/uploadedFiles/tes/eco-city/DraftEnergyClimateActionPlan03.14.2011.pdf&i=5&s=content&h=Energy%20and%20Climate%20Change%20Action%20Plan%202012%20%u2013%202020>). Alexandria's plan is the first of its type in Northern Virginia that incorporates adaptation strategies for sea level rise and storm surge, including those with implications to future land use.

Since October 2010, NVRC staff has continued to refine the vulnerability assessment using the most recent shoreline inventory data collected by the Virginia Institute of Marine Sciences (VIMS) in spring 2010.

Also, NVRC staff presented at NOAA-CSC-sponsored Roadmap for Adapting to Climate Change workshop, hosted by the Metropolitan Washington Council of Governments (MWCOC) in March 2011. This workshop provided an overview of the Sustainable Shorelines and Community Management Project and lessons learned throughout the process from the project management perspective. Feedback from workshop participants suggested that the presentation, the project approach, and the results and recommended integration into local planning were well-received by the local representatives in the audience. These representatives included local land use, transportation, and environmental planning staff from across all jurisdictions in Northern Virginia, the District of Columbia, and several Maryland jurisdictions. After the workshop, MWCOC staff expressed earnest interest in working with NVRC staff to integrate the assessment from the Sustainable Shorelines and Community Management project into MWCOC's Region Forward initiative, which is essentially a regional comprehensive plan for the D.C. metropolitan region.

Also, NVRC staff presented at the 2010 Virginia Coastal Zone Partners Workshop in Richmond, VA, in December.

Final Products	% Completion	Anticipated Completion Date
Workgroup Outcome Report <input type="checkbox"/>	20	September 30, 2011
Adaptation Strategy Report <input type="checkbox"/>	35	September 30, 2011
Communication Report <input type="checkbox"/>	30	September 30, 2011

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 12.08 Richmond Regional Planning District Commission  
Central Virginia Blue and Green Infrastructure Protection Planning Project

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: 10/1/2010	End: 9/30/2011	Closeout: 12/31/2011

RRPDC staff and Crater PDC staff drafted and agreed on a final scope of work for the project. This scope of work is described in the Interim Report, produced during the first portion of this grant year.

RRPDC staff hosted local Planning Directors and staff from around the region to discuss the process and form of the final products for this grant year. It was agreed that PDC staff will use sites along riparian corridors as supplied by local planning directors and staffs. Development and re-greening scenarios of these sites will be analyzed using CITYgreen software and GIS. PDC staff will determine the scenarios to be analyzed in conjunction with local planning staff.

Several localities have offered sites and riparian corridors for scenario analysis. The sites and corridors represent the spectrum of geographical features and development densities found throughout the Richmond and Crater Regions. As well, the site scenarios will span a variety of land use types including residential, commercial, and mixed use. PDC staff has created base maps for the first round of sites and corridors to be analyzed. PDC staff is currently working with local staff to collect other materials that may be useful when developing the scenarios for analysis, such as site plans. Once PDC staff has gathered these additional materials, scenarios will be developed and analyzed using the software.

PDC staff has offered to provide interested localities and stakeholder organizations educational presentations about green and blue infrastructure planning in general, as well as, work accomplished to date on this project. In addition, work planned for the current year of the grant will also be discussed. PDC provided educational presentations at four events between October 2010 and March 2011. In October 2010, PDC staff provided an informational presentation to the RRPDC Board on the function of green infrastructure and past work accomplished by PDC staff in the arena of green infrastructure planning. The RRPDC Board consists of more than 30 local elected officials and representatives. In December 2010, PDC staff presented at the Virginia Coastal Zone Management Program's Coastal Partners Workshop. The aim of the presentation was to overview the role of green and blue infrastructure with Coastal Program Partners and to review work accomplished by PDC staff. In January 2011, PDC staff presented to a large group of water quality, local government, and environmental stakeholder organizations. The aim of the meeting and presentation was to inform and inspire the organizations to understand the importance of green infrastructure in the City of Richmond and to cooperate in planning and implementation efforts. In March 2011, PDC staff presented at the Middle James Roundtable Annual Meeting. The presentation was aimed at general education and lessons about green infrastructure planning that would be useful across the entire Middle James Watershed.

Final Products	% Completion	Anticipated Completion Date
Interim Report <input type="checkbox"/>	100%	
GIS Data and Mapping of Riparian Corridor Green Infrastructure <input type="checkbox"/>	20%	August 1, 2011
Riparian Corridor Green Infrastructure Prioritization Guide <input type="checkbox"/>	5%	September 30, 2011
Green Infrastructure Asset Implementation <input type="checkbox"/>	20%	September 30, 2011

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2010

Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 41      Accomack-Northampton Planning District Commission  
A-NPDC Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open						
Open	<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Start:</td> <td style="width: 33%;">End:</td> <td style="width: 33%;">Closeout:</td> </tr> <tr> <td>10/1/2010</td> <td>9/30/2011</td> <td>12/31/2011</td> </tr> </table>	Start:	End:	Closeout:	10/1/2010	9/30/2011	12/31/2011	
Start:	End:	Closeout:						
10/1/2010	9/30/2011	12/31/2011						

### Ground Water Committee

A-NPDC held four Ground Water Committee meetings. The committee has reviewed eight ground water withdrawal permits, two VPDES permits, and completed two environmental reviews. The committee has continued to work with the EPA-Sole Source Aquifer Program and Accomack Co. on a landfill spray irrigation project review. The committee has submitted final drafts of Water Supply Plans for Accomack and Northampton Counties to DEQ. The committee held a successful public workshop on the Water Supply Plans. The committee awarded the 2010 Ground Water Award to Walmart in Onley, VA for using exemplary water conservation practices and protecting ground water quality during construction and operation.

### Coastal Management Committee Meetings/Trainings

A-NPDC has held one Coastal Management Committee meeting. Staff presented information on Carolina Bays and their impacts on the Eastern Shore. The committee reviewed and discussed the NASA Wallops Flight Facility Shoreline Restoration & Infrastructure Protection Program. The committee discussed developments of the VA & Coastal MD Area Committee Regional Emergency Response Team regarding environmental response to hazardous spill events in local coastal waters. The committee reviewed and discussed the outcomes of the Eastern Shore of VA National Wildlife Reserve's Resource Vulnerability Assessment. The committee discussed the new LiDAR dataset for the Eastern Shore and identified coastal inundation mapping training opportunities for localities through the NOAA Coastal Services Center.

### Technical Assistance

A-NPDC has collaborated with local stakeholders to create a Climate Adaptation Team to address issues and identify strategies on a local and regional level. A-NPDC has served on a LiDAR Working Group to identify implementation strategies for new LiDAR data for the Eastern Shore. A-NPDC has coordinated with local and state governments to begin the planning process for the Chesapeake Bay TMDL-WIP planning process. A-NPDC has served on the Local Gov. Working Group throughout the TMDL/IP planning process for two watersheds. A-NPDC held the 2010 Native American Heritage Festival in Chincoteague, VA with approximately 300 attendees experiencing native culture and history. A-NPDC judged the regional high school Envirothon competition, which promotes environmental stewardship in local youths.

### Onancock School Technical Assistance

A-NPDC has coordinated 11 meetings with the Friends of Onancock School non-profit group. Meetings have been focused on developing a Master Plan for the renovation and preservation of this historic coastal property. A-NPDC directed the group in defining desired uses and then identified potential funding options. A-NPDC also conducted and presented a walk-through inspection of the building and identified immediate and long-term issues that needed addressing for renovation.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Coastal Management Committee Report <input type="checkbox"/>	50%	9/30/2010
Coastal Management Training Report <input type="checkbox"/>	50%	9/30/2010
Technical Assistance Report <input type="checkbox"/>	50%	9/30/2010
Ground Water Committee Report <input type="checkbox"/>	50%	9/30/2010
Onancock School Technical Assistance Report <input type="checkbox"/>	75%	9/30/2010

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 42 Crater Planning District Commission  
Crater PDC Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:      End:      Closeout:		
	10/1/2010    9/30/2011    12/31/2011		

(1) Crater PDC staff processed four environmental impact reviews for local, state, and federal projects. (2) Two coastal meetings/training sessions were held during the reporting period (12/10/10 and 3/4/11). Topics of discussion were the Virginia Scenic Rivers Program, the Virginia Main Street Program, the Crater Fort Lee Joint Land Use Study, and the Appomattox River Interpretive Guide. (3) Crater PDC staff completed the report on Impervious Surface within the Crater Coastal Communities. (4) The Fall Appomattox River Clean-Up was held on October 23, 2010 at Lake Chesdin, Petersburg, and Prince George. (5) Commission staff supported the coastal communities effort to extend the scenic river designation on the Appomattox River from Campbell Bridge to City Point in Hopewell. (6) Commission staff participated in several environmental planning efforts pertaining to floodplain mapping in Prince George County, trail development in Hopewell, the Swift Creek Master Plan in Chesterfield, regional TMDL studies, the Albemarle-Chowan Watershed, and planning for the 2011 Spring/Summer James River Clean-Up which will include Petersburg-area locations. (7) Crater PDC staff continued to provide technical support to FOLAR – Friends of the Lower Appomattox River. (8) Crater PDC staff completed the first draft of the Appomattox River Interpretive Guide map and a list of points of interest. The drafts were distributed to stakeholders for review.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Environmental Impact Review Comments <input type="checkbox"/>	50% <input type="checkbox"/>	9/30/11
Coastal Meetings <input type="checkbox"/>	50%	9/30/11
Coastal Training <input type="checkbox"/>	50%	9/30/11
Appomattox River Interpretive Guide <input type="checkbox"/>	25% <input type="checkbox"/>	9/30/11

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 43 Hampton Roads Planning District Commission  
Hampton Roads Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: 10/1/2010	End: 9/30/2011	Closeout: 12/31/2011

Final Report. HRPDC staff began compiling information for the final report.

Environmental Impact Review. Seven (7) environmental impact assessments/statements and coastal zone consistency determinations were reviewed, local government input coordinated, and comments provided to DEQ for inclusion in official state positions. Summaries of all projects were provided to the HRPDC. Public Information and Education. HRPDC staff maintained information on its website and provided regular briefings to local elected officials on the HRPDC Commission, local governing bodies, and to professional and civic organizations. HRPDC staff continued use of a blog, HR REVIEW, located at <http://www.hrpdca.gov/HamptonRoadsReview>, for public outreach and communication. During this period forty-two (42) entries were posted, with topics ranging from environmental education to regional economics.

Regional Coordination Process. HRPDC staff facilitated monthly regional advisory committee meetings addressing wetlands, Chesapeake Bay issues, and other coastal and environmental issues. Activities were coordinated with local utilities, stormwater, and general planning programs and regional geographic information system issues. Through these programs, the localities develop regional consensus on state and federal regulatory and legislative issues, coordinate plans addressing these issues and exchange information on program activities. During this period, three (3) meetings were held of the regional Joint Environment Committee. Topics covered included regional land cover standards, the Chesapeake Bay TMDL, stormwater regulations, potential legislation, green infrastructure, climate change, and environmental education.

Regional Technical Studies. HRPDC staff addressed a number of technical issues concerning water quality and watershed management. These included an analysis of impacts from the proposed Chesapeake Bay TMDL on local governments and utilities as well as a study of available data and data needs for stormwater management and development impacts on watershed health.

Technical Assistance. Daily assistance was provided to local government staff, consultants, businesses and citizen environmental organizations on environmental and planning issues. This included ordinance and plan development, provision of technical information, acquisition and interpretation of aerial photography, and GIS data and maps. Assistance with organizational development and consideration of technical, regulatory, and policy issues was provided to regional environmental organizations in order to facilitate informed education and participation in local, regional and state planning and decision-making.

Committee Participation. HRPDC staff participated on several committees related to the Regional Coastal Resources Management Program. These committees included the Dismal Swamp Trail Connector, the Southeast Coast Paddling Trail, and the Virginia Coastal Zone Management Policy Team.

Final Products	% Completion	Anticipated Completion Date
Final Report: Hampton Roads TA Program	25 <input type="checkbox"/>	September 30, 2011
EA/EIS and Coastal Consistency Review <input type="checkbox"/>	50	September 30, 2011
Public Information, Education, and Training <input type="checkbox"/>	50	September 30, 2011
Regional Coordination Process <input type="checkbox"/>	50	September 30, 2011
Special Regional Studies <input type="checkbox"/>	25	September 30, 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error**

Task: 44 Middle Peninsula Planning District Commission				
Technical Assistance Program				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

**Product #1**

Title: Coastal Management Analysis and Policy Support – MPPDC staff continues to provide coastal management support to local elected officials and other local government officials, local planning commissions and local planning staff. MPPDC staff provided direct GIS analysis of development proposals, land conversion, land use plans, and local land use ordinance implementation over the first six months of the project. Project highlights included review and local discussion of the Virginia Chesapeake Bay TMDL and WIP. Also provided was extensive GIS technical assistance to Middle Peninsula localities related to 2011 Local Redistricting process, schedule and mapping.

**Product #2**

Title: Local Planning Coordination MPPDC staff convened several meetings with local government level planners and administrators as well as the Middle Peninsula Chesapeake Bay Public Access Authority (MPCBPAA) related to current coastal zone management issues. Items of most interest were the tracking and discussion of Virginia General Assembly Bills and Resolutions Under consideration during the 2011 session and the relations to coastal zone management and local land use and policy implications. Considerable staff time was devoted to the tracking of legislation pertaining to aquaculture and land use / water use implications and working waterfront regulatory and tax relief. Training- see schedule below

**Product #3**

Title: (Special Project) Assistance with the implementation of the Middle Peninsula Chesapeake Bay Public Access Authority annual work plan. Regional Shallow Water Dredging and Sediment Management Master Plan Support: Staff continues to develop a matrix of shallow water dredging permitting issues, including applicant options, type of dredging project, disposal and nourishment use issues and analysis. This information will be used in conjunction with the Army Corps of Engineers Shallow Water Dredging and Regional Sediment Management Plan for the Middle Peninsula.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Coastal Management Analysis and Policy Support <input type="checkbox"/>	50	Sept 30
Local Planning Coordination <input type="checkbox"/>	50	Sept 30
Assistance with the implementation of the Middle Peninsula Chesapeake Bay Public Access Authority annual work plan. Regional Shallow Water Dredging and Sediment Management Master Plan Support <input type="checkbox"/>	50 <input type="checkbox"/>	Sept 30

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error**

Task: 45 Northern Neck Planning District Commission				
Northern Neck PDC Technical Assistance Program				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

NNPDC staff presented to the Northern Neck Master Gardeners on Low Impact Design (LID) and Stormwater Infiltration Techniques on January 27, 2011. Twenty two persons were in attendance, and many insightful questions were raised (and answered) after the presentation. NNPDC staff held a Northern Neck Land Use Administrator's Coordination Meeting on March 8th. The executive director of the Hull Springs Farm Foundation, Ms. Bobbie Burton, presented on the Foundation work in establishing a local wetlands and stream mitigation bank. Hull Springs Farms vision is to present sustainable conservation practices on the farm fields, forests and wetlands, as well as provide opportunities for community outreach and education. Local planners were encouraged to notify developers that are proposing projects in their county that may impact wetlands of the Hull Springs Farm wetland mitigation bank.

NNPDC staff have revised 3 of the 5 digital tax maps for Northumberland County. 2009 Virginia Base Mapping Program aerial photos were used to align the property lines with roads, fence and shrub lines and other property line indicators accurately. The revised digital tax maps need to be reviewed for accuracy in the line work and tax parcel attributes, and any problems corrected before they are final.

NNPDC staff have updated the Lancaster County 1999 Farm Field GIS layer. Farm fields that have been converted to other uses were tagged with the appropriate new use (residential, forest, etc.) so that only those actively farmed fields will be included in the analysis. In addition, any new fields that had characteristics of being farmed that were not included in the original farm field inventory were added. This data layer, while principally being used for notification of landowners with actively farmed fields, may also be useful to the county as a tool for estimating the total amount of agricultural land in the county. With the BAY TMDL progressing, this type of data is invaluable to county staff in estimating the effects land use has on county water quality.

NNPDC staff have assisted Richmond County in the creation of the buildable areas maps for the County. GIS data that will be used as limiting features include National Wetland Inventory Wetlands, 100 foot Chesapeake Bay Resource Protection Areas. Discussions with county staff are continuing on which slope ranges should be used to exclude building on steep slopes, and whether to use Hydric Soils as a limiting layer.

NNPDC staff have attended training on the Community Viz software to prepare for the Westmoreland County Buildout analysis. NNPDC staff have contacted Westmoreland County staff, and the growth area chosen to analyze is the Coles Point secondary Growth area. NNPDC staff already have the zoning layer in a GIS format and will work with the county on what types of limiting layers, besides the Chesapeake 100 foot Resource Protection Area, they would like to use in the analysis.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Support <input type="checkbox"/>	50%	September 30, 2011
Local Planning Coordination and Training <input type="checkbox"/>	30%	September 30, 2011
Northumberland Five Revised Digital Tax Maps <input type="checkbox"/>	45%	September 30, 2011
Lancaster County Agricultural Data Revision and Mailing Database <input type="checkbox"/>	50%	September 30, 2011
Richmond County Buildable Areas Map <input type="checkbox"/>	40%	September 30, 2011
Westmoreland County Growth Area Buildout Analysis <input type="checkbox"/>	20%	September 30, 2011

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 46 Northern Virginia Regional Commission  
NVRC Coastal Resources Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2010	9/30/2011	12/31/2011		

Since October, NVRC continued to provide technical service in the form of website development ([www.novaoutside.org](http://www.novaoutside.org)) and planning for formal and informal environmental educators for NoVA Outside. NVRC supported the coordination of two events: a teacher training on schoolyard habitats and Children in Nature Leadership Summit for local leaders and environmental education champions to strengthen ongoing work, increase collaboration, and set goals for 2011 that would be attainable within the region. A major objective was to draft a Regional Children's Outdoor Bill of Rights, and establish a working group to finalize it.

NVRC co-hosted a Beautifying Your Yard for Clean Water workshops on designing, building, landscaping, and maintaining small-scale rain gardens with the Northern Virginia Soil and Water Conservation District, Arlington County, and the Community Appearance Alliance of Northern Virginia. Twenty participants, including local and state government staff, attended a 4-hour long workshop, at Virginia Tech's Northern Region Campus and participated in an hour-long tour of rain gardens and cisterns at Thomas Jefferson Elementary School in Falls Church, VA. In their feedback forms, roughly half of the participants stated they planned on installing a rain garden on their property after attending the workshop.

The Northern Virginia Clean Water Partners enters its seventh year implementing the Regional Stormwater Education Campaign. NVRC developed the 2011 campaign plan and hired Water Words That Work, LLC (WWTW) to assist in its implementation. Additionally, NVRC acquired a new business partner this year – Doody Calls, who have provided donation of services to contest winners. The Partners are taking advantage of online advertising through text, banner, and video advertisements to reach a broad audience and attract new readers to the Northern Virginia Dog Blog ([www.northern-virginia-dog-blog.com](http://www.northern-virginia-dog-blog.com)). As of March 31, 2011, 762 people have subscribed to the blog and the ads have made over 10 million impressions. During this report period, NVRC and WWTW presented the findings of the 2010 pilot study to local, state, and federal government peers at the Social Media for Government Workshop in Washington, DC.

Since October, NVRC staff reviewed and responded to three environmental assessments or environmental impact statements across the region. To date, NVRC has not received notice of significant changes in projects due to comments provided by NVRC staff. NVRC staff participated in a Coastal PDC coordination meeting at Richmond-Regional PDC, the Coastal Partners workshop in Richmond, as well as one Coastal Policy Team meeting focused on the 306 Focal Area, in Richmond.

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 47 George Washington Regional Commission  
GWRC Coastal Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:      End:      Closeout:		
	10/1/2010    9/30/2011    12/31/2011		

**Product #1: Coordination and Training Program**

GWRC staff held 2 quarterly meetings with local planning directors, participated in meetings of the re-organized Technical Advisory Committee of the Rappahannock River basin Commission to discuss regional initiatives to help local governments meet TMDL requirements, attended the quarterly Coastal PDC meetings, Coastal Partners' Workshop (co-presenting a paper on last year's CZM project results) and Coastal Policy team meetings. GWRC staff also met with DCR and CBLAD staff to discuss scenarios to involve the 16 PDCs in the Bay watershed in the State's development of the Phase II Watershed Implementation Plan.

**Product #2: Support to GWRC's Green Government Commission Sub-Committees**

GWRC staff held monthly meetings with Recycling Committee, Green Earth committee and bi-weekly meetings with Green Building Committee. Recycling managers from MCB Quantico and Fort A.P. Hill have joined the committee to discuss military base coordination with community recycling programs. Green Earth committee continues work on the Children and Nature Network project, producing an environmental education activity book through graphic design help donated by students at Univ of Mary Washington. Work now focuses on finding corporate funding support to reproduce the "Passport to the Rappahannock", produced in partnership with the Friends of the Rappahannock. Design of the Home Performance program through the collaboration of local government and GWRC staff and consultants is nearly finished. GWRC staff and interns participated in the Fredericksburg Area Home & Garden Show to promote the Home Performance with Energy Star program...see [www.gwhelp.org](http://www.gwhelp.org).

**Product# 3: City Land Use Classification Study**

As of Friday, April 8, the City land use classification project is about 80% complete. All 8,178 parcels have been classified by function; residential parcels and those with parking have also been given a structural function code. Over 500 parcels have been sampled (to field verify the land use code assigned), with 300 remaining to be sampled. Parcels that were labeled uncertain because of discrepancies among existing zoning, family name, the air photo or street view maps have largely been field checked. Still to be added are detailed metadata for the shapefile and quality control review by faculty overseeing the project. A report explaining procedure and assessing the accuracy of the classification, as compared to the sampled parcels, is being written.

Final Products	% Completion	Anticipated Completion Date
Prod. #1: Report on Local Coordination and Training	25%	September 30, 2011
Prod. #2: Support to GWRC Green Govt Committees	50%	September 30, 2011
Prod. #3: City Land Use Classification Project	75%	June 30, 2011
Prod. #4: Fredericksburg Tree Canopy Analysis	25%	September 30, 2011

Year: 2010

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 48 Richmond Regional Planning District Commission  
Richmond Regional PDC Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2010	9/30/2011	12/31/2011		

Report on Coordination Initiatives – RRPDC staff summarized comments supplied by local staff at a September 2010 Environmental TAC meeting. Those comments were included in the RRPDC 2011 Legislative Agenda. The Legislative Agenda was used by RRPDC staff to inform the Capital Region Delegation at the Virginia General Assembly about matters of concern and consensus for localities in the Richmond Region, including environmental matters. RRPDC staff processed 31 environmental and intergovernmental reviews during this portion of the grant year. PDC staff attended a meeting of the Department of Conservation and Recreation Stormwater Regulatory Advisory Panel on January 21. RRPDC staff participated on the Steering Committee and the Urban and Governmental Workgroup for the James River Bacteria TMDL. On March 7, PDC staff met with regional stakeholders and the National Park Service to discuss federally led efforts to establish the James and Chickahominy rivers as the first leg of the Chesapeake Bay Water Trail. RRPDC staff hosted a meeting of the VCZM Program's Coastal Planning District Commissions on March 28, 2011.

Report on Training Initiatives - RRPDC staff has organized one Environmental Technical Advisory Committee (TAC) meeting. On February 8, 2011, the Environmental TAC met at the Henrico County Water Treatment Facility for a tour and discussion about water treatment and distribution. RRPDC staff notified Environmental TAC members about approximately 23 training and educational opportunities available through outside organizations. A second Environmental TAC meeting is planned for May 10, 2011. Agenda topics include DEQ Environmental Education programs, DCR Healthy Waters Program, and an update on the Rivers of the Richmond Region Project.

Impervious Cover Forecast – RRPDC staff has completed digitization of all 2009 structures for the region and is focusing on data review and analysis. PDC staff is also working to complete the impervious cover analysis by updating with local data where available. Immediate efforts include completion of a regional roads layer to include interchanges, median strips, turn lanes and actual pavement widths. A final report will be completed by the end of October.

Rivers of the Richmond Region Public Access Guide – RRPDC staff has completed initial research including review of prior plans and maps, gathering VDGIF resources, James River Outdoor Coalition contact, and coordination with Crater PDC on the tandem efforts for the Appomattox. Staff has completed the field work and is preparing a draft map of public water access points for review and comment by River stakeholders and local planning staff. A river stakeholders meeting is planned in tandem with the Environmental TAC meeting planned on May 10, 2011.

Initiation of Regional Stormwater Management (SWM) Discussion - Given proposed changes in the State and Federal regulatory environment, the importance of understanding alternative SWM approaches in the region is becoming evident. Toward this end, PDC staff has begun the discussion of understanding alternative SWM approaches with localities and with representatives of the local development community.

Final Products	% Completion	Anticipated Completion Date
Report on Coordination Initiatives□	50%	September 30, 2011
Report on Training Initiatives□	35%	September 30, 2011
Impervious Cover Forecast□	50%	September 30, 2011
Rivers of the Richmond Region Public Access Guide□	40%	September 30, 2011
Initiation of Regional Stormwater Management Discussion	15%	September 30, 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error**

Task: 49 Virginia Beach/Virginia Aquarium and Marine Science Center				
Virginia Sea Turtle and Marine Mammal Stranding Network				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	1/1/2011	12/31/2011	3/31/2012	

This grant officially started on January 1, 2011. During the period from January through March 2011, the Virginia Aquarium Stranding Response Program (VAQS) recorded 27 strandings in Virginia. There were six strandings recorded during the same period in 2010.

The VAQS Stranding Team responded to 24 marine mammal strandings in Virginia during this reporting period, 19 cetaceans and five pinnipeds. Fourteen (58%) of the strandings were located in Virginia Beach, and nine (38%) were located on Virginia's Eastern Shore. The cetacean species included seven common dolphin (*Delphinus delphis*), six bottlenose dolphin (*Tursiops truncatus*), two harbor porpoise (*Phocoena phocoena*), two striped dolphin (*Stenella coeruleoalba*), one dwarf sperm whale (*Kogia sima*) and one sei whale (*Balaenoptera borealis*). Pinniped species included four harp seal (*Pagophilus groenlandica*) and one harbor seal (*Phoca vitulina*). One harp seal, one striped dolphin and the dwarf sperm whale stranded alive and all either died on the beach or were euthanized as a result of their conditions.

There were three sea turtle strandings recorded in Virginia during this reporting period. The sea turtle species included one Kemp's ridley (*Lepidochelys kempii*), one loggerhead (*Caretta caretta*) and one animal that was unidentified to species. All of the turtles were in poor condition when discovered and all of the sea turtle strandings were recovered from the Eastern Shore. In addition to the strandings recorded during this period, VAQS staff continued to care for a number of live sea turtles that were in rehabilitation: six Kemp's ridley, seven loggerhead and one green. The Kemp's ridley turtles in rehab are scheduled for release in Florida in April.

VAQS staff attended three professional meetings and made several formal presentations during this reporting period. VAQS hosted the Northeast Region Stranding Network Conference in Virginia Beach during March for more than 50 attendees. There were also educational and/or training presentations by Stranding Team members to groups in the Hampton Roads area and to stranding network cooperators. Grant funded VAQS staff worked more than 450 hours, and Stranding Team volunteers contributed more than 3,000 hours to the stranding response program during this reporting period. A detailed list of all trainings, presentations and publications will be included in the final report.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
VA Sea Turtle & Marine Mammal Stranding Response & Reporting <input type="checkbox"/>	25%	December 31, 2011
Personnel Training Activities <input type="checkbox"/>	15%	December 31, 2011
Public Education Activities <input type="checkbox"/>	20%	December 31, 2011

Task: 91 Environmental Law Institute				
Restatement of Virginia's Enforceable Policies				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	1/1/2011	3/31/2012	6/30/2012	

ELI reviewed the inventory of Virginia's Enforceable Policies prepared by ELI. ELI examined NOAA's newer approaches to updating enforceable policies, including the approvals of Delaware and Maryland (the latter occurring in the project period). ELI conferred with NOAA and VA CZM staff concerning the approach.

Final Products	% Completion	Anticipated Completion Date
Restatement of Virginia's Enforceable Policies Draft <input type="checkbox"/>	5	Sept 30, 2011
Restatement of Virginia's Enforceable Policies Final <input type="checkbox"/>	0	March 31, 2012

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error**

Task: 93.01 The Nature Conservancy				
CSI: Intergovernmental Decision-making: Mid-Atlantic Regional Council on the Ocean (MARCO) GIS Portal				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

The first phase of the MARCO Mapping and Planning Portal project (NA09NOS4190163) has been extended due to unexpected efficiencies in producing deliverables, and work on expanded deliverables (similar to #1 and #2 below) will continue for several weeks. Work on this second phase of the project will soon commence; Virginia Coastal Zone Management Program staff will continue to be appraised of progress as efforts are shifted to this phase two project.

Final Products	% Completion	Anticipated Completion Date
#1 Collection and formatting of additional layers <input type="checkbox"/>	(0)	09/30/11
#2 Overlay analyses and new functions <input type="checkbox"/>	(0)	09/30/11
#3 Final report on MARCO Portal updates <input type="checkbox"/>	(0)	09/30/11

Task: 93.02 TBD				
CSI: Intergovernmental Decision-making: GEMS Data Layer				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Pending
Proposed	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

The CZM Manager and GIS Coordinator met on March 11 with VCU staff to discuss conversion of Coastal GEMS to ARC 10. The estimated cost is about \$50,000. Funds from this task as well as FY 2009 Task 93.02 may be used toward that conversion pending receipt of a scope of work from Virginia Commonwealth University.

Task: 94.01 Virginia Institute of Marine Science - Center for Coastal Resources Management				
Shoreline Inventory Reports for Tidewater Localities - Northampton County				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

The Shoreline Inventory Reports, formerly known as Shoreline Situation Reports, are an important resource for local and state planners and regulators of Tidewater Virginia. The data collected enhances their ability to make decisions regarding coastal construction, land use planning, and implementation of environmental legislation. The data collected for the inventory supports the development of a number of essential management tools including spatial models and shoreline management plans.

The project will collect and process data for Northampton County, at the southern end of Virginia's Eastern Shore. Quality assurance checks and measures will be implemented at designated phases of the processing. A complete county based Shoreline Inventory will be developed. These data will follow formats consistent with previous collections and be posted to VIMS' CCRM website site entitled Chesapeake Bay Shoreline Inventory: [http://ccrm.vims.edu/gis\\_data\\_maps/shoreline\\_inventories/index.html](http://ccrm.vims.edu/gis_data_maps/shoreline_inventories/index.html).

Progress to date on this project has focused on the development of the digital basemap shoreline from high resolution aerial imagery. The process involves using heads-up digitizing techniques and photo interpretation to digitize the land water interface. Active field work to collect the conditional data is weather dependent and is scheduled to begin in mid-May.

Final Products	% Completion	Anticipated Completion Date
Data Collection/Processing <input type="checkbox"/>	10%	August, 2011
Process survey data and conduct QA/QC <input type="checkbox"/>	10%	August, 2011
Final Map and Product Generation <input type="checkbox"/>	0%	September, 2011
Web Pages and Postings, Data Delivery <input type="checkbox"/>	0%	September, 2011

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2010

Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error

Task: 94.02 Virginia Institute of Marine Science  
Shore Evolution in Several Virginia Localities 2010

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:      End:      Closeout:		
	10/1/2010   9/30/2011   12/31/2011		

The necessary images for the Counties of Surry, King George, Prince William, Richmond, Hampton, Middlesex, and Lancaster have been collected/purchased. The images for Surry and part of Richmond have been rectified and mosaicked. Shorelines have been digitized for Surry and are undergoing QA/QC.

Photo dates by locality:

Surry - 1937, 1954, 1963, 1978, 1994, 2002, 2007, and 2009

Richmond – 1937, 1953, 1969, 1994, 2002, 2007, and 2009

King George – 1937, 1953, 1967, 1981, 1994, 2002, 2007, and 2009

Prince William – 1937, 1953, 1962, 1985, 1994, 2002, 2007, and 2009

Lancaster: Additional shoreline will be added to dates 1937, 1959, 1982, 1994, and 2002. New dates added to database, 2007 and 2009.

Middlesex: Additional shoreline will be added to dates 1937, 1994, and 2002. New dates added to database, 1959, 1968, 2007 and 2009.

Hampton: Additional shoreline will be added to dates 1937, 1953, 1963, 1980, 1994, and 2002. New dates added to database, 2007 and 2009.

Final Products	% Completion	Anticipated Completion Date
Shore Evolution Reports <input type="checkbox"/>	35%	October 2011

Task: 95 Middle Peninsula Planning District Commission  
Special Area Management Plan for Dragon Run

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:      End:      Closeout:		
	10/1/2010   12/31/2011   3/31/2012		

Task 1: Land-use planning – MPPDC staff consulted with representatives from the two watershed counties in the process of updating comprehensive plans. None of the counties are updating zoning ordinances currently. Dave Whitlow, Essex County Administrator, reported that the recommended language is currently included in their draft and that their first Work Session is April 19th. Anne Ducey-Ortiz, Gloucester County Planning Director, reported that many of the recommendations are in the draft Comprehensive Plan, which is anticipated to be considered for adoption in Summer 2011. Middlesex County Planning Director reported that the recommendations will be considered as the county reviews its zoning ordinances over the next year or two.

Task 2: Watershed Management Plan Implementation and SAMP TA – MPPDC staff provided staff support to the citizen-based Dragon Run Steering Committee at two quarterly meetings. MPPDC staff also assisted the Dragon Run Day Planning Committee with coordination and facilitation for Dragon Run Day 2010. MPPDC staff represented the Dragon Run SAMP at Dragon Run Day, a community watershed festival. During this reporting period, MPPDC staff distributed approximately 620 Dragon Run DVDs. Additionally, MPPDC staff provided input during development of a Dragon Run Watershed curriculum by Chesapeake Bay NERRS and provided information to the press about the Dragon Run, Dragon Run Steering Committee, SAMP and its partnerships.

Task 3: Conservation Impacts – MPPDC staff hosted a forum for local officials and Commissioners of Revenue from each county to discuss quantitative results derived in the FY 2009 grant year and provide feedback on the revenue impacts identified. MPPDC staff provided technical assistance to the Commissioners of Revenue as they undertook changes to administrative policies to improve consistency with regard to identification and assessment of conservation easements. MPPDC staff engaged in a facilitated discussion between conservation easement holding entities and local government officials identifying policies, goals and objectives for each entity and identifying the conflicts and impact of conservation efforts on local government policies. Following this dialog, MPPDC staff researched what other Virginia localities are doing to address land use impacts and revenue shortfalls due to easements/tax-exempt holdings and developed a preliminary matrix of policy options. MPPDC provided outreach to approximately 20 Commissioners of Revenue/assessors regarding the fiscal impacts of conservation easements as a guest speaker at a Tidewater Regional Assessing Officer's meeting.

Final Products	% Completion	Anticipated Completion Date
Task 1: Land use planning <input type="checkbox"/>	50	September 30, 2011
Task 2: SAMP TA <input type="checkbox"/>	50	September 30, 2011
Task 3: Quantitative Conservation Impacts <input type="checkbox"/>	75 <input type="checkbox"/>	September 30, 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error**

Task: 96      TBD			
Seaside Special Area Management Plan			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Pending
Proposed	Start:	End:	Closeout:
	10/1/2010	9/30/2011	12/31/2011

During this period the project team discussed needs for this FY 2010 task. Four scopes of work were recently received: 1) from The Nature Conservancy for \$21,000 for public meetings and final synthesis report; 2) from ANPDC for \$10,000 for public stakeholder engagement; 3) from VIMS (Luckenbach) for \$23,232 for creating public presentation materials based on a synthesis of previous SAMP efforts and generating management options; and 4) from VIMS (Berman) for \$26,500 for analysis and mapping of extent of usage of privately held subaqueous leases. These four tasks total \$80,732 so they must be pared down slightly to fit within the \$80,000 currently allocated to the FY 2010 Seaside SAMP. As soon as these tasks are reviewed and changes negotiated with the applicants, they will be forward to NOAA via Grantsonline for approval.

Task: 97.01      Middle Peninsula Planning District Commission			
Middle Peninsula Conservation Corridors Plan: Year 2			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:
	10/1/2010	12/31/2011	3/31/2012

Product 2 (Incorporate quantified impacts of easements): MPPDC staff presented quantitative and qualitative findings from grant #NA09NOS4190163 Task 97.01 and Task 95 to a variety of groups throughout the Middle Peninsula for the purpose of demonstrating the scale in which easements and conservation efforts have on the local economy. MPPDC staff has discussed these fiscal impacts with local elected officials, county administrators, county planners, commissioners of revenues and conservation entities. Additionally, the Commission demonstrated their support of the findings with the passing of a resolution that recommended adopting the report titled Conservation Easement: Fiscal Impacts to Localities in the Middle Peninsula as well as implementing the report's recommendations.

Product 1 (Mapping): Using the Priority Conservation Areas map generated through grant #NA09NOS4190163 Task 97.01 and Task 95, MPPDC staff overlaid existing conservation zones within Middle Peninsula localities as well as private conservation easements in the region. MPPDC staff utilized and manipulated GIS data from localities to depict the location of conservation zones, while data identifying the location of conservation easements within the region was gathered from researching county land records in addition to working with the Department of Conservation and Recreation (DCR), Virginia Outdoors Foundation (VOF), and The Nature Conservancy (TNC). MPPDC staff integrated these maps into presentations to provide a visual of conservation efforts within the region.

Product 3 (Discussions with localities): MPPDC staff hosted a forum for local officials and Commissioners of Revenues from each county to discuss quantitative results derived during grant #NA09NOS4190163 Task 97.01 and Task 95 and the fiscal impacts to localities. MPPDC staff provided technical assistance to the Commissioners of Revenue as they undertook changes to administrative policies to improve consistency with regard to identification and assessment of conservation easements. Additionally MPPDC staff provided outreach to Commissioners of Revenue/assessors regarding the fiscal impacts of conservation easements as a guest speaker at a Tidewater Regional Assessing Officer's quarterly meeting. MPPDC staff also facilitated discussions between conservation easement holding entities and local government officials to identify policies, goals and objectives for each entity and identify the conflicts and impacts of conservation efforts on local government policies.

Product 4 (Policy actions and needs): Following dialogue with local officials, planning staff, and conservation entities, MPPDC staff researched how other Virginia localities are addressing land use impacts and revenue shortfalls due to conservation easements and tax-exempt land holdings, and developed a preliminary matrix of policy options. In December 2010 the Commission passed a resolution to provide input as MPPDC staff develops a set of policies guiding the placement of conservation easements. Therefore, over the next six months, staff will continue to refine policy options that may provide cohesion between current land use practices and policies related to conservation easements.

Final Products	% Completion	Anticipated Completion Date
Incorporate quantified impacts of easements <input type="checkbox"/>	95%	Sept 2011
Mapping of existing conservation zones and easements <input type="checkbox"/>	85%	Sept 2011
Discussion of Conservation Tools & Goals	50%	Sept 2011
Policy actions and needs <input type="checkbox"/>	50%	Sept 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from #Error**

Task: 97.02 Northern Virginia Regional Commission				
Northern Virginia Conservation Corridor Planning				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

Since October, NVRC staff and its partners have continued to make refinements to the base conservation corridor map and create theme-based asset maps with input and recommendations provided by advisory and resource group members.

Throughout the first year of the project (FY09), acquiring relevant data that is consistent across all of the jurisdictions in Northern Virginia proved to be a challenge. Additionally, each locality has a distinct way of defining features that are important to them. To overcome these barriers, the focus of the last six months has been on developing regional definitions for the features and their data sources that should be included on the theme-based maps to show the relationship between the areas of high ecological importance (from the base map) and anthropogenic and other natural elements. The regional theme categories and their definitions include:

- Water Resources – Assets Theme portrays the regionally-important surface and drinking water features that are dependent upon good source water quality.
- Water Resources – Impairments Theme includes stream segments listed on the Virginia Department of Environmental Quality's 303(d) impaired waters listing for water quality impairments that are dependent upon the use of the land (benthic/sediment/flow).
- Known cultural Heritage Theme includes known sites of architectural or archeological importance that are contextually-dependent upon the surrounding landscape. Locations are representative of the significant historic periods defined by the Virginia State Landmark Register and National Register.
- Nature-based Recreation Theme includes regionally-significant areas with public access to experience recreational opportunities dependent upon a "natural" environment.
- Agriculture Resources Theme [still a work in progress] depicts areas that support agricultural production. USDA soil classifications are included to designate state and nationally significant agricultural areas, which are suitable for agriculture and natural resource management.

Discussions with the resource groups and the advisory group revealed additional information and needs that are of unique interest to the individual jurisdictions and that would be best used for an analysis at the local level, such as stream quality datasets. Additionally, during this reporting period, Prince William County officially adopted policy language in the Environmental Chapter of their Comprehensive Plan that will use the results of this project's analysis as guidance.

Final Products	% Completion	Anticipated Completion Date
Pilot Study Report <input type="checkbox"/>	30	September 30, 2011
Summit Summary and Marketing Strategy <input type="checkbox"/>	25	September 30, 2011
Local Analysis Report and Maps <input type="checkbox"/>	50	September 30, 2011

Task: 97.03 Dept. of Conservation & Recreation				
VNEMO Program Implementation in Coastal Zone				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

For the grant reporting period, the Environmental Analyst at the Virginia Commonwealth University serving as the Coastal NPS Program Manager and implementing the Coastal NPS Program at the Virginia Department of Conservation and Recreation, did not expend any monies during the reporting period due to operating on extended FY09 monies. Progress will be reported on the FY 10 grant for the reporting period of April 1, 2011 – Sept. 30, 2011.

Final Products	% Completion	Anticipated Completion Date
Product #1 <input type="checkbox"/>	0	Oct 2011
Product 2 <input type="checkbox"/>	0	Oct 2011