


Year: 2015

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA15NOS4190164
for the period from 

Task: 1.01 Dept. of Environmental Quality - Virginia Coastal Zone Management Program		Current Federal Total: \$301,298.00
Coastal Program Management		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start: End: Closeout: 10/1/2015 9/30/2017 12/31/2017	

VA CZM submitted the April 1, 2016 – September 30, 2016 Progress Reports to NOAA on October 27, 2016. About \$8,500 remains in this task, which will be reprogrammed.

Task: 1.02 Dept. of Environmental Quality - Virginia Coastal Zone Management Program		Current Federal Total: \$93,800.00
Virginia CZM Program Outreach & Social Marketing		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start: End: Closeout: 10/1/2015 9/30/2017 12/31/2017	

Remaining funds in this grant supported travel for a native plant exhibit and presentation at an event on the Eastern Shore (April 2016), for exhibits and messaging testing at a Hampton Roads bridal show for the balloon debris reduction campaign (January 2017), as well as travel for a native plant exhibit and presentation at an event on the Eastern Shore (April 2016). There is \$6,057.45 remaining in this task. Depending on the outcome of the federal budget and possible other need for the funds, this balance could be used to print what may be the last coastal regional native plant guide – for the greater Richmond region.

Final Products	% Completion	Anticipated Completion Date
Outreach and Social Marketing Strategies	100%	
Printed Media	100%	
Events and Training	100%	
Electronic Media	100%	

Task: 1.03 Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research Re		Current Federal Total: \$109,868.00
Coastal Management Support		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Progress Reports Constitute Final Product
Closed	Start: End: Closeout: 10/1/2015 9/30/2016 12/31/2016	

Task: 1.04 Virginia Commonwealth University		Current Federal Total: \$110,130.00
Coastal Management GIS Support and Coastal GEMS Maintenance		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached
Closed	Start: End: Closeout: 10/1/2015 9/30/2016 12/31/2016	

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Task: 2	Dept. of Environmental Quality	Current Federal Total: \$196,904.00	
EIR and Federal Consistency			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open	
Open	Start: 10/1/2015	End: 9/30/2017	Closeout: 12/31/2017

The Fiscal Year 2015 grant included a contractual amount of \$10,000 to allow the electronic scanning of historic federal consistency review files. The scanning of these files will result in more secure file retention. The project has started but the contract with the Department of Corrections has not been finalized. OEIR intends to complete the work by the grant extension due date of December 31, 2016 and the final product (completion of scanning of 40 boxes of files) by the grant extension final due date of November 1, 2017. About \$43,000 remains in this task, which will be reprogrammed.

Final Products	% Completion	Anticipated Completion Date
Contractual – File scanning <input type="checkbox"/>	37%	November 20, 2017

Task: 3	Dept. of Environmental Quality	Current Federal Total: \$0.00	
Water Quality Improvement Fund (WQIF) Match- City of Hopewell Wastewater Treatment Plant Nutrient Removal Upgrade			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: 10/1/2015	End: 1/31/2017	Closeout: 4/30/2017

Task: 4	Virginia Marine Resources Commission	Current Federal Total: \$160,000.00	
Permit Review and Compliance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: 10/1/2015	End: 9/30/2016	Closeout: 12/31/2016

Task: 5	Dept. of Conservation & Recreation - Natural Heritage	Current Federal Total: \$50,000.00	
Habitat Conservation/Locality Liaison			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: 10/1/2015	End: 9/30/2016	Closeout: 12/31/2016

Task: 6	Virginia Institute of Marine Science - Center for Coastal Resources Management	Current Federal Total: \$42,000.00	
Tidal Wetlands Management Technical Support			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: 10/1/2015	End: 9/30/2016	Closeout: 12/31/2016

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Task: 7	Virginia Institute of Marine Science	Current Federal Total:	\$60,000.00
2015 Submerged Aquatic Vegetation Distribution and Abundance Survey			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: 10/1/2015	End: 12/31/2016	Closeout: 3/31/2017

Task: 8	Dept. of Conservation & Recreation - Natural Heritage	Current Federal Total:	\$27,000.00
Healthy Waters Program in the Coastal Zone			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start: 10/1/2015	End: 3/31/2017	Closeout: 6/30/2017

For the grant reporting period, the Environmental Scientist/Analyst with the Virginia Commonwealth University, Center for Environmental Studies in the Department of Life Sciences continued to serve as the Program Manager of the Virginia Healthy Waters Program at the Virginia Department of Conservation and Recreation, Division of Natural Heritage. Programmatically, the assessment of program resources and needs has continued to determine gaps and areas of improvement. Data integration, geographic expansion and data re-sampling continue to be the top focal areas of the analysis with immediate attention addressed to integrate existing INSTAR data into the NHD data explorer and the creation of new Element Occurrences (EOs) and Stream Conservation Units (SCUs). Challenges to administering the Program are development of new data to complete the statewide coverage, and the resource and staffing needs to conduct field assessments. The DNH continues to support the Healthy Waters Program by contributing one field biologist for the purpose of being trained in the INSTAR data collection and field identification process. For the upcoming sampling 2017 season, two Heritage staff will participate with the VCU field crew and will be supported with CZM funding. This increased capacity in the program is a critical advancement in the program within the Division of Natural Heritage and permits the collection of data by additional field personnel aside from specific grant related activities. This process provides the Healthy Waters Program the ability to identify and track trends in Healthy Waters.

While VDCR DNH has directed staff to include collecting data relevant to the HWP, the data will be in a raw form still requiring the development of models to interpret such information to make relevant to the Program, as a whole. The development of an INSTAR model is typically done on a basin scale to provide for comparable results within a defined area. The collection of raw data will permit an additional cataloging of resources to further inform the development of an INSTAR model when resources are present for the specific region or basin. The Watershed Integrity Model, used and developed by the Natural Heritage Division and VCU, has been updated and streamlined to improve the utility and integrate new data from the latest sampling. The new model is referred to as the ConservationVision Watershed Model. This new tool includes four primary components: Watershed Integrity, Landscape Position, Soil Sensitivity, and Land Cover. A survey was distributed to stakeholders and potential users of the new model to obtain feedback on the changes and proposed weighting of various parameters. The Program Manager continued to participate in the Chesapeake Bay Program Healthy Watershed Goal Implementation Team to coordinate the involvement of VA Departments of Conservation and Recreation, Environmental Quality and Forestry. The VDCR DNH developed and submitted a proposal to the US Endowment of Forestry and Communities to support the Healthy Waters Program. The proposal sought funding to support the prioritization of ecologically healthy sites in the Commonwealth and to fund a field position that would directly work in support of conservation and protection actions to ensure ecologically healthy aquatic conditions are maintained. This activity, if funded, diverges from the typical work of the DNH and bridges the DNH Sections of Healthy Waters, Protection and Stewardship.

Additionally, during the reporting period, the Program Manager met with both the James River Association and the Friends of Rappahannock River to discuss how the INSTAR data and HWP might inform their protection actions in their respective regions. Ongoing discussions with the VDEQ about the development of a Biological Condition Gradient (BCG) have been underway with the intent of integrating the HWP with those outcomes of a BCG assessment process. The HWP also met with USEPA Region 3 Office to discuss better integrating HWP data into the Watershed Resources Registry (<http://watershedresourcesregistry.com/>). The HWP Manager met with the VA Department of Transportation to discuss using the HWP data to identify potential projects that would assist VDOT in meeting their MS4 obligations and nutrient and sediment reductions.

Through funding from EPA 319, the Program Manager continued to manage the process by which watersheds and waterbodies are identified as Healthy and how the Program communicates outward. The US EPA provided a final formal approval of the proposed nine-step criteria, paving the way for other similar projects in the Commonwealth. This nine-step criteria follows the same process for TMDL Watershed Implementation Plan development but focuses on the protection actions to ensure ecological health is maintained. The US EPA requested the Program Manager present the findings at the National Nonpoint Monitoring conference in Boston in November, 2016.

Final Products	% Completion	Anticipated Completion Date
Healthy Waters Program Growth and Admin	100%	March, 2017
Healthy Waters Capacity Development	100%	March, 2017
Healthy Waters Data Analysis and Evaluation	100%	March, 2017

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Task: 9	Dept. of Environmental Quality - Virginia Coastal Zone Management Program			Current Federal Total:	\$213,000.00
Eastern Shore Land Acquisition					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Pending
Proposed	Start:	End:	Closeout:		
	10/1/2015	3/31/2017	6/30/2017		

The Southern Tip partners met on Nov 29 and Mar 28 to discuss land acquisition projects and other matters. Plans to acquire the Spady tract are progressing well. Zoning issues with the County have been resolved and the owner has permission to divide the parcel. An appraisal has been completed and it is expected that the 306A documentation will be submitted to NOAA for approval in May 2017. FY15 funds will be used to acquire a portion of the Spady tract (FY16 funds will be used to acquire another portion).

Task: 10	Virginia Institute of Marine Science			Current Federal Total:	\$161,000.00
Seaside Restoration					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	1/1/2016	9/30/2017	12/31/2017		

Eelgrass Restoration: Eelgrass seeds were broadcast in 27 one acre plots all in Spider Crab Bay on Oct. 20, 2016, at a seed density of 100,000 seeds per acre. 21 plots had seeds collected from the Chesapeake Bay (2.1 million seeds) while 6 plots had seeds collected from South Bay. Test batches of seeds were planted in the VIMS greenhouse to assess goodness of seeds.

Water Quality Monitoring Dataflow cruises for integrated measures of shallow water quality were recorded every 50 meters of the established cruise track (salinity, temperature, turbidity, chlorophyll fluorescence, pH, dissolved oxygen) which were successfully completed on Oct. 20, 2016, for the South Bay, Cobb Bay, Spider Crab Bay and Hog Island Bay restoration areas. Taking similar water quality measurements as the dataflow cruises using similar YSI sonde instruments, but at 15 minute intervals, the fixed, continuous water quality monitoring at the South Bay and Spider Crab Bay station sites were operational with no interruptions during this period. During each dataflow cruise and during each station visit for Sonde switch out, water samples were taken for later laboratory analysis of total suspended solids and extracted chlorophyll pigments. Additionally, measurements of salinity, temperature, turbidity, chlorophyll fluorescence, pH, and dissolved oxygen were taken using a separate, YSI sonde held adjacent to the in situ sonde for comparison. Telemetry of the 15 minute, fixed station data was also continuous during this period and current data can be viewed at: <https://stormcentral.waterlog.com/public/vims> through the www.VECOS.org website.

Scallop Restoration: The first October release was on 10/12/16, with 10,115 Fall 2015 scallops. Scallops were released along a transect in South Bay starting N37 14.571 W75 51.263 and ending N37 14.433 W75 51.076. On the 13th of October, 12,500 of the Spring 2015 spawn were released along a transect in South Bay starting N37 14.571 W75 51.263 and ending N37 14.433 W75 51.076. Total releases for October were 22,615 adult scallops. 5,000 of the Fall 2016 spawn are being retained in cages. The larger growing juveniles from nursery were deployed in one section of a cage. An additional 4,850 more were added to the cage in two spat bags (3mm mesh), 1 bag with ~1400 and another with ~3600 individuals. 56,000 of the Spring 2016 scallops are being retained. Scallops held in 7 cages were split to 11 cages. Mortality appeared somewhat high, most likely from crabs. One cage with 400 individuals was transferred to a separate cage moved to the East end of the South line to be held as new broodstock. More scallops from the Spring 2016 spawn will be added to the broodstock cages in the Spring.

Final Products	% Completion	Anticipated Completion Date
Final Report	0%	Jan. 31, 2018

Task: 11	Wetlands Watch			Current Federal Total:	\$5,000.00
Cost-Benefit Analysis & Marketing of the CRS as Resilience Tool in Coastal Virginia					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	4/15/2017	9/30/2017	12/31/2017		

This project was signed into contract with Wetlands Watch on 4-25-17. Therefore, no progress will be reported this period.

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Task: 41	Accomack-Northampton Planning District Commission	Current Federal Total:	\$30,000.00
A-NPDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Task: 42	Crater Planning District Commission	Current Federal Total:	\$30,000.00
Crater PDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Task: 43	Hampton Roads Planning District Commission	Current Federal Total:	\$60,000.00
Hampton Roads Coastal Resources Management Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Task: 44	Middle Peninsula Planning District Commission	Current Federal Total:	\$30,000.00
Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Task: 45	Northern Neck Planning District Commission	Current Federal Total:	\$30,000.00
Northern Neck Planning District Commission Technical Assistance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Task: 46	Northern Virginia Regional Commission	Current Federal Total:	\$30,000.00
NVRC Coastal Resources Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

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Task: 47	George Washington Regional Commission	Current Federal Total:	\$30,000.00
George Washington Regional Commission Coastal Zone Management Assistance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Task: 48	Richmond Regional Planning District Commission	Current Federal Total:	\$30,000.00
Richmond Regional Technical Assistance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Task: 49	Virginia Aquarium and Marine Science Center Foundation	Current Federal Total:	\$31,000.00
Virginia Sea Turtle and Marine Mammal Stranding Network			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	1/1/2016 12/31/2016 3/31/2017		

Task: 50	George Washington Regional Commission	Current Federal Total:	\$65,000.00
Port Royal Water Trail, Pier Extension and Public Access			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Task: 51	Hampton Roads Planning District Commission	Current Federal Total:	\$20,000.00
Carrollton Nike Park Canoe/Kayak Launch			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	10/1/2015 6/30/2017 9/30/2017		

The HRPDC staff has continued to work with Isle of Wight County, VCZMP, and NOAA to finalize 306a documentation. The HRPDC staff has worked with Isle of Wight County to develop a Memorandum of Agreement to complete the project.

Final Products	% Completion	Anticipated Completion Date
Construction of a Canoe/Kayak Launch	0%	June 30, 2017

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Task: 52	Hampton Roads Planning District Commission			Current Federal Total:	\$20,000.00
Lavalette Ave. - Canoe/Kayak Launch and Fishing Dock					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2015	6/30/2017	9/30/2017		

The HRPDC staff and the City of Norfolk continue to work to implement this project.

Final Products	% Completion	Anticipated Completion Date
Gangway, Floating Fishing/Crabbing Dock, and Canoe/Kayak Launch	10%	March 31, 2017
Demolition of Existing Dilapidated Dock	0%	March 31, 2017
Upland Shoreline Restoration and Signage	0%	March 31, 2017

Task: 53	Middle Peninsula Planning District Commission			Current Federal Total:	\$40,000.00
Middle Peninsula Public Access Master Plan					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2015	9/30/2016	12/31/2016		

Task: 54	Middle Peninsula Planning District Commission			Current Federal Total:	\$14,792.00
Local Government Planning Options to Address the Impacts of Flooding and Sea Level Rise in Coastal Communities					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2015	9/30/2016	12/31/2016		

Task: 55	Northern Neck Planning District Commission			Current Federal Total:	\$10,208.00
Revision of the Chesapeake Bay and Northern Neck Guide to Rural Living Book and Northern Neck Environmental Education Regional Co					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2015	12/31/2016	3/31/2017		

Task: 91	William & Mary - Virginia Coastal Policy Center			Current Federal Total:	\$30,000.00
Routine Program Changes					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Pending
Proposed	Start:	End:	Closeout:		
	4/1/2017	9/30/2017	12/31/2017		

A contract package went out to the William & Mary Coastal Policy Center (CPC) on 4-18-17. However, CZM has not received it back from CPC yet. Therefore, there is no progress to report.

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Task: 92	Middle Peninsula Planning District Commission	Current Federal Total:	\$50,000.00
Virginia Working Waterfronts Master Plan and 2nd Virginia Working Waterfront Summit			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 3/31/2017 6/30/2017		

Product #1: Working Waterfront Executive Committee Initial Report - The Working Waterfront Executive Committee (i.e. Staff from the Northern Neck, Middle Peninsula, Hampton Roads and Accomack-Norhampton Planning District Commissions, the Virginia Coastal Zone Management Program, the Virginia Coastal Policy Clinic (VCPC), the Clean Marinas Program, and VIMS Marine Advisory Services), reviewed the project deliverables. More specifically, the group discussed the Virginia Working Waterfront Master Plan and the components needed to accomplish this.

Product #2: State Wide Response Concerning Working Waterfronts – Don McCann with the Marine Advisory Services at Virginia Institute of Marine Science completed a chapter of the Virginia Working Waterfront Master Plan focused on state-wide data and information associated with working waterfronts. This was included as 4th Chapter of the Virginia's Working Waterfront Master Plan.

Product #3: Assembly of the Virginia WWF Master Plan – MPPDC staff added missing information in the Hampton Roads Planning District Commission Chapter and uploaded this completed document to ISSUU at https://issuu.com/middlepeninsulaplanningdistrictcomm1/docs/final_working_waterfront_plan_repor. This document was also shared with all Coastal Planning District Commissions. Each posted this document on their websites and presented the plan to their Commissions.

Product #4: Design of a Draft Working Waterfront Resolution – MPPDC staff developed a resolution for PDC Boards to adopt the Master Plan. To date Accomack- Northampton, Middle Peninsula, Hampton Roads and the Northern Neck Planning District Commission have all adopted the plan.

Product #5: Rural Chesapeake Bay/Seaside of Virginia Working Waterfront Coalition Summit #2 – The summit, entitled "Living with the Water – Too Much, and Too Little", was held on December 2, 2016, at the Williamsburg Lodge in Williamsburg, Va. The morning session was jointly held with the 2nd annual Working Waterfronts Summit that consisted of two parts: a) Panel of working waterfront specialists discussed the growing national problem faced by loss of working waterfronts; b) Panel of working waterfront specialists and attendees reviewed and discussed the Virginia Working Waterfront Master Plan. The afternoon session focused on the groundwater injection project proposed by the Hampton Roads Sanitation District, followed by a reception at the Muscarelle Museum on the William & Mary campus. The conference agenda and presentations can be found here: <http://law.wm.edu/academics/programs/jd/electives/clinics/vacoastal/conferences/Living%20with%20the%20Water%20Too%20Much%20and%20Too%20Little/index.php>. Discussions at this symposium identified the need for working waterfront legislation. Therefore, working waterfront bills were introduced to the 2017 General Assembly session and passed, including SB1203 Working Waterfront Development Areas and SB1205 Commercial fishing vessels, which classifies vessels as a separate class of property.

Final Products	% Completion	Anticipated Completion Date
Working Waterfront Executive Committee Initial Report	100%	December 2016
State Wide Response Concerning Working Waterfronts	100%	April 2016
Assembly of the Virginia WWF Master Plan	100%	January 2017
Design of a Draft Working Waterfront Resolution	100%	September 2016
Rural Chesapeake Bay/Seaside of Virginia Working Waterfront Coalition Summit #2	100%	December 2016

Task: 93	Virginia Institute of Marine Science	Current Federal Total:	\$135,000.00
Shoreline Management Planning			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

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Task: 94.01 Hampton Roads Planning District Commission				Current Federal Total: \$40,000.00
Integrating Coastal Resilience into Local Plans, Policies, and Ordinances				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	3/1/2016	6/30/2017	9/30/2017	

During this grant period, the HRPDC staff:

- Completed compiling existing comprehensive plans, hazard mitigation plans, and floodplain management ordinances for cities and counties in Virginia's Coastal Zone
- Completed assessment of whether and how the comprehensive plans and hazard mitigation plans incorporated sea level rise and flood management
- Completed documentation of the Community Rating System classification for coastal communities in Virginia, if applicable
- Identified high rating coastal communities in the Community Rating System to use as case studies
- Assessed case study communities for which activities were contributing significantly to their ratings
- Identified additional communities and regions to use as case studies for non-CRS best practices
- Presented on initial findings from study at 2017 Environment Virginia Symposium (Virginia Military Institute, Lexington, Virginia)

Final Products	% Completion	Anticipated Completion Date
Assessment of Coastal Hazards in Current Local Plans and Policies in Virginia	100%	June 30, 2017
Coastal Hazards Planning Case Study Identification and Analysis	40%	June 30, 2017
Assessment of Best Practices for Addressing Coastal Hazards in Local Policies	25%	June 30, 2017
Education and Training on Best Practices Addressing Coastal Hazards	5%	June 30, 2017

Task: 94.02 Middle Peninsula Planning District Commission				Current Federal Total: \$60,524.00
Mathews County Ditch Mapping and Database				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:	
	10/1/2015	3/31/2017	6/30/2017	

Product #1: Declaration of Public Policy Drainage Concern and Action: To help clarify misconceptions regarding ditch maintenance and to revalidate VDOT's position on ditch maintenance, as well as Mathews County's position on the same, and legal research conducted to date, Delegate Keith Hodges hosted a meeting on November 22, 2016 in Mathews County. Attendance at the meeting included four of the five Mathews County Board of Supervisors, the Mathews County Administrator, Delegate Keith Hodges, the new Mathews County Planning Director, Virginia Department of Transportation representatives, Mathews County citizens, Virginia Department of Environmental Quality staff, MPPDC staff, as well as a reporter from the Gloucester Mathews Gazette-Journal. At the meeting, Delegate Hodges presented a document that identified the outcomes of previous projects relating to ditch maintenance in Mathews County. Delegate Hodges also presented policy options to meeting participants including taking no action, creating a Ditch Revolving Loan Fund, creating a Local Advisory Committee, developing a Ditch Tax Increment Financing Area, creating a service district, creating a Virginia Water and Waste Water Authority Act, or developing new legislation. Following the meeting, Delegate Hodges introduced HB 1774 Stormwater management; work group to examine ways to improve. This bill was passed and signed by the Governor on March 13, 2017.

Product #2: Mathews Target Area Ditch Maps: To build off previous efforts, MPPDC staff partnered with Mathews County, Draper Aden Associates (DAA) and Virginia Coastal Policy Center (VCPC) at William and Mary to address ditch maintenance. DAA created maps of designated areas in Mathews County. VCPC used these maps to conduct research, compile deeds and easement documentation to determine ownership and maintenance responsibility.

Product #3: Research and Compile Land Records Data: Virginia Coastal Policy Center completed reports intended to provide legal information and policy options useful to the Mathews County Board of Supervisors. These reports can be found on the MPPDC website at: www.mppdc.com/index.php/reports/2017.

Product #4: Design framework of Ditch Maintenance Database: In an effort to provide a comprehensive closure to this project and the projects regarding Mathews County ditches, MPPDC staff partnered with DAA to design a database for the organization and illustration of legal records and property ownership of failing ditches. DAA staff completed a GIS geodatabase to house necessary ditch data, including ownership, maintenance, aerial and lidar terrain surface maps. The database can be found here: <http://arcg.is/2feRWwf>.

Final Products	% Completion	Anticipated Completion Date
Declaration of Public Policy Drainage Concern and Action	100%	November 2016
Mathews Target Area Ditch Maps	100%	September 2016
Research and Compile Land Records Data	100%	December 2016
Design framework of a Ditch Maintenance Database	100%	September 2016

Year: 2015

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA15NOS4190164
for the period from #Name?

Task: 94.03	Northern Virginia Regional Commission	Current Federal Total:	\$39,476.00
Northern Virginia Native Plant Social Marketing Campaign ("Plant NoVA Natives")			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: 10/1/2015	End: 9/30/2016	Closeout: 12/31/2016

Task: 95.01	Virginia Commonwealth University	Current Federal Total:	\$60,000.00
Virginia Ocean Plan			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start: 10/1/2015	End: 3/31/2017	Closeout: 6/30/2017

For the Project Reporting period, the Environmental Scientist/Analyst with the Virginia Commonwealth University, Center for Environmental Studies in the Department of Life Sciences continued to serve as the Ocean Planning Stakeholder Engagement (OPSE) Coordinator to the VA Coastal Zone Management Program at the VA DEQ. During the reporting period, the OPSE Coordinator continued to work with the commercial fishing industry in support of the VA efforts to advance the Mid Atlantic Ocean Plan. These opportunities continue to strengthen the relationship between the offshore commercial fishing industry and the VA Coastal Zone Management Program.

During the reporting period, the OPSE Coordinator communicated with the VA Marine Resources Commission to obtain fisheries data relevant to the black sea bass (*Centropristis striata*) and summer flounder (*Paralichthys dentatus*) catch to develop data products consistent with the Mid Atlantic Regional Council on the Ocean (MARCO) Marine Life Data Analysis Team (MDAT) to display species shifts related to changes in temperature or climate. Coordination with Duke University and the Nature Conservancy was implemented with a response only from the Duke team, no response was provided from the Nature Conservancy staff. VA Marine Resources Commission indicated those data could be made available for such conclusions but may require analysis to ensure the Rule of 3 is not broken, ensuring data protection standards. The VA Marine Resources Commission indicated those catch and landings data are available to the mid-1990s.

The OPSE Coordinator communicated with the commercial fishing industry, specifically the potters, to reopen the dialogue on gear loss due to ship strike. Field contacts have changed gear types and new contacts have been established to continue the conversation. The goal of such interaction is to record and formally document gear loss with the outcome of minimizing economic impacts to each industry with the potential of maximizing their activities.

In preparation for the upcoming FY16 grant, the OPSE Coordinator began the research of electromagnetic field impacts on fisheries such as threatened and endangered fishes including Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) for the purpose of developing a communication piece for the industry.

The OPSE Coordinator began attending the MARCO regular meetings and prepared for the upcoming April meeting at Rutgers University Changing Ocean Conditions Related to Fisheries in New Brunswick NJ.

Final Products	% Completion	Anticipated Completion Date
Report on Ocean Stakeholder Engagement and VA Ocean Users Needs	100%	Sept, 2016

Task: 95.02	Dept. of Game & Inland Fisheries	Current Federal Total:	\$20,121.00
Introductory Materials for update of the Virginia Marine Mammal Conservation Plan			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start: 10/1/2016	End: 3/31/2017	Closeout: 6/30/2017

During the reporting period, the Virginia Department of Game and Inland Fisheries completed execution of a contract with the Virginia Aquarium and Marine Science Center Foundation (VAQF) to perform most of the work outlined in the grant. Delays in contract execution delayed the start-up of the work. However, the VAQF staff has completed 80+% of the work, including updates to individual species descriptions and a significant update to the section on limiting factors, causes of declines and threats to these resources.

Final Products	% Completion	Anticipated Completion Date
Updated introduction – Virginia Marine Mammal Conservation Plan	80%	May 30, 2017

Year: 2015

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA15NOS4190164
for the period from #Name?

Task: 95.03 Longwood University		Current Federal Total: \$65,993.00
Virginia Marine Debris Reduction Plan Refinement and Implementation of Balloon Reduction Social Marketing Campaign		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start: 10/1/2015 End: 9/30/2017 Closeout: 12/31/2017	

Clean Virginia Waterways (CVW), its contractors, and partners along with CZM staff worked on the following activities this period:

Product #1. Refinement and Implementation of Phase 2 of the VA Marine Debris Reduction Plan

During this period, CVW & CZM staff consulted with the VA Marine Debris Reduction Plan Team and other partners regarding marine debris-prevention topics including:

1. The VA Marine Debris Reduction Plan Team met on January 30, 2017. Researchers from VIMS, CZM and CVW provided overviews of ongoing research and outreach projects. Future state projects were discussed including the development of a Virginia Emergency Marine Debris Response Plan by NOAA, and a stakeholders meeting to discuss derelict clam netting. Laura McKay (CZM) shared efforts of the Mid-Atlantic RPB marine debris work group, and Jason Rolfe (NOAA) showed a draft for a collaboration portal for inventory of regional marine debris projects.
2. Addressing marine debris on regional level: CVW & CZM continued discussions with the Mid-Atlantic RPB marine debris work group about possible regional approaches to prevent or remove marine debris. CVW contributed to monthly RPB marine debris work group discussions, and the creation of an inventory of current marine debris prevention programs underway in the Mid-Atlantic.
3. Beachy Clean program: CVW obtained funding from the American Chemistry Council to expand the Beachy Clean program after its successful 2-year pilot (2015 & 2016) in VA Beach. The project is designed to reach hotel guests and day visitors to the beach with litter-prevention messages. Several meetings were held in VA Beach with partners including the VA Aquarium, the VA Beach Hotel Association, restaurant owners, and a marketing firm that gave pro bono advice.
4. Surfriders Foundation (VA Beach Chapter) won a grant from Keep America Beautiful to continue work in the VA Beach area to reduce cigarette litter. Previous cigarette litter prevention work was done by CVW in VA Beach thanks to KAB grants.

Product #2. Balloon Release Reduction Campaign: Multi-Media & Evaluation. Began planning for exhibit with Virginia CZM, focused in part on marine debris, including balloon release and single-use disposables, at the Back to the Bay event in Mason Neck State Park on June 10.

Product #3. Balloon Debris Monitoring. This product supports the NOAA MDP grant. Researchers Christina Trapani and Kathy O'Hara (sub-contracted by CVW to conduct monitoring of balloon litter on barrier islands) and others monitored False Cape (twice), Smith Island (twice), Cedar Island (once) and Fisherman Island (twice). They recorded more than 700 incidences of balloons that included more than 875 balloons (latex and foil). No weather balloons were found in this period.

Product #5: Social Marketing Workshop: This grant paid the deposit to Dr. McKenzie-Mohr to lead a June 2017 Community-Based Social Marketing Workshop to build capacity of partners engaged in future marine debris reduction campaigns (the balance of his fee will be paid by FY16 Task 94.03).

Product #6: Final Strategy/Report for A Rising Concern: Reducing Balloon Releases and Debris through a Social Marketing Campaign. This will be completed when the FY14 NOAA Marine Debris grant ends in September 2017. Outline and draft have been started.

Final Products	% Completion	Anticipated Completion Date
Product #1: Refinement and Implementation of Phase 2 of the VA Marine Debris Reduction Plan	90%	9-30-17
Product #2: Balloon Release Reduction Campaign: Evaluation & Supplies	10%	9-30-17
Product #3: Balloon Debris Monitoring Report	50%	9-30-17
Product #4: Second VA Marine Debris Summit Report	100%	Completed
Product #5: Social Marketing Workshop	40%	7-1-17
Product #6: Final Report for A Rising Concern: Reducing Balloon Releases and Debris through a Social Marketing Campaign	5%	9-30-17