


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:	\$0.00
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    3/31/2017    6/30/2017		

Policy Products: A Coastal Policy Team meeting was held on September 20, 2016. Meeting notes are available at <http://www.deq.virginia.gov/Programs/CoastalZoneManagement/DescriptionBoundary/VirginiaCoastalPolicyTeam.aspx>.

RPCs and Amendments: CZM staff worked with the William & Mary Coastal Policy Center (CPC) to develop a scope of work to draft narrative enforceable policies for the Department of Game and Inland Fisheries (DGIF), including state-listed threatened and endangered animals. A contract was signed in July, and CPC staff made a presentation on the project to the Coastal Policy Team at its September meeting. CZM and CPT staff have worked to organize an advisory committee to provide stakeholder input into development of the policies.

Grants Management & Reporting: The Section A, Semiannual Grant Progress Report, Section B Agency Report, and Section C Success Story were compiled and submitted to NOAA on April 30, 2016 for the reporting period of Oct. 1, 2015-March 31, 2016. The CZM Manager and Coastal Planner monitored grant activities through phone calls and visits. The Coastal Planners assisted with coordination and participated in the Quarterly Coastal PDC meeting on May 3, 2016 in Hampton Roads where program updates, announcements and answers to grant questions were provided. The Grants Coordinator and CZM Manager processed extension and budget amendment requests, 306A documentation approvals, SAC removals, and reprogrammed funds using Grants Online.

FY 2016 CZM Grant Application: The FY 2016 final application was submitted on May 6, 2016 via the CAMMP and Grants.gov systems. Five PDC projects totalling \$158,434 were selected for funding through a competitive process. The topics addressed through these grants include public access, native plant campaigns and living shorelines.

Section 309 PSM Grant Application: The Virginia CZM Program was awarded a Project of Special Merit grant entitled "Implementing Sustainable Shoreline Management in Virginia: Assessing the Need for an Enforceable Policy" that was subcontracted to the Virginia Institute of Marine Science. CZM staff monitored the work on the grant during the reporting period.

Performance Measures: CZM collected Training activities on the Semiannual Progress Reports.

Ocean Planning: MARCO, RPB & Collaborative Fisheries Planning Documents: The VA CZM Manager continued as Chair of MARCO and led the bi-monthly conference calls and an August 1-2 Board meeting. She continued as Co-Chair of the RPB's Data Synthesis Work Group overseeing a MARCO contract for a phase 2 marine life data synthesis. Led an April 7 MARCO canyons workshop in Delaware – summary notes available on the MARCO website. Developed and presented 5 of the 6 healthy ocean ecosystem plan actions during several public webinars and the July 12 public listening session in Virginia Beach. Briefed Office of Secretary of Natural Resources on draft ocean action plan and secured approval on final draft to be submitted to National Ocean Council in October. (See <http://www.boem.gov/MidA-New/> for documents). Presented ocean planning efforts to State Department's Foreign Press Center; Gave presentations on ocean planning at two Ocean Frontiers film events. Participated in a meeting in June with IOOS program staff to discuss collaboration on portals. Completed the Fisheries Planning for VA's Wind Energy Area project by the deadline of May 31, 2016: <http://www.deq.virginia.gov/Programs/CoastalZoneManagement/CZMIssuesInitiatives/OceanPlanning/FishingandVirginiaOffshoreWind.aspx>. She also worked with grantees to pick up almost 300 balloons on Hog Island as part of CZM's marine debris efforts.

Outreach Materials: The CZM Program Manager wrote 4 articles and the Coastal Planner wrote 2 articles for the spring 2016 issue of the CZM Magazine. On June 17 the PM was filmed for Ocean Frontiers III about Mid-Atlantic ocean planning.

Events Sponsorship: For the October 2016 Birding Festival, the CZM Program Manager and Outreach Specialist prepared the poster, an exhibit and the student artwork prizes. The awards were presented by the PM at the festival's opening reception and she gave a 1 hour presentation on CZM conservation efforts on the Eastern Shore. The OS managed the photography contest and developed and conducted an activity for the Children's Program.

312 Metrics: 312 Metrics information for the report due Oct. 30, 2016 on Seaside Habitat Restoration (Eelgrass Planted and Bay Scallops Released) and Shoreline Management Plans was collected from the Virginia Institute of Marine Science (VIMS).

Final Products	% Completion	Anticipated Completion Date
Policy Team Products	100	Sep 30 2016
RPCs and Amendments	100	Sep 30 2016
Grant Management & Reporting	100	Sep 30 2016
FY 2016 CZM Grant Application	100	May 6 2016
Section 309 PSM Grant	100	Sep 30 2016
Performance Measures	100	Sep 30 2016
Ocean Planning Documents	100	Sep 30 2016
Outreach Materials	100	Sep 30 2016
Events Sponsorship	100	Sep 30 2016
312 Metrics	100	Sep 30 2016

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Task: 1.02	Dept. of Environmental Quality - Virginia Coastal Zone Management Program			Current Federal Total:	\$0.00
Virginia CZM Program Outreach & Social Marketing					
<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	9/30/2016	12/31/2016		

General Outreach Coordination – Coordinated production, and designed, Spring 2016 issue of Virginia Coastal Zone Management magazine - [www.deq.virginia.gov/Portals/0/DEQ/CoastalZoneManagement/magspring2016.pdf](http://www.deq.virginia.gov/Portals/0/DEQ/CoastalZoneManagement/magspring2016.pdf). Work related to the 2016 Virginia Coastal Partners Workshop included: setting-up on-line registration and publicizing through Constant Contact and Virginia CZM website; working with CZM staff to design and distribute pre-workshop survey to inform agenda; and securing speakers for session of native plant marketing. Designed new 30th anniversary version of Virginia CZM logo.

Marine debris reduction outreach strategy – As follow-up to March Virginia Marine Debris Summit, worked with Clean Virginia Waterways staff to develop and distribute post-summit survey and post summit proceedings and presentations on the Virginia CZM website - [www.deq.virginia.gov/Programs/CoastalZoneManagement/CZMIssuesInitiatives/MarineDebris/2016VirginiaMarineDebrisSummit.aspx](http://www.deq.virginia.gov/Programs/CoastalZoneManagement/CZMIssuesInitiatives/MarineDebris/2016VirginiaMarineDebrisSummit.aspx). Also, will secure Doug McKenzie-Mohr to lead June 2017 social marketing workshop focused on building capacity of partners who will be engaged in future marine debris reduction campaigns.

- Balloon debris reduction campaign project -- coordinated with Clean Virginia Waterways and OpinionWorks subcontractors to plan and conduct webinar on research results and next steps in designing a campaign pilot strategy, and to conduct a campaign strategy planning team meeting (June). Reached decision with team to conduct two pilot campaign strategies targeting college/university students and wedding event planners/brides. Began final research to validate earlier findings associated to these audiences, and to test messaging and strategy elements through fall 2016 and early 2017 to implement pilots in spring near late spring graduation and weddings.

Native plant marketing and conservation landscaping efforts -- Led a Virginia Native Plants Marketing Partnership Communications Workgroup which met in April to discuss communication priorities focused on consistency in member messaging to various audiences. Collaborative projects have included:

- Developed and distributed new Virginia Native Plant Marketing e-news.
- Partnered with staff from DCR, Flora of Virginia and VNPS on a native plant exhibit at the Virginia Executive Mansion in April, including design of new exhibit and handout as well as plant ID markers for a native plant demo garden in front of the mansion.
- Continued to serve on a technical advisory committee tasked with outlining content and resources for curriculum on native plants and natural communities for the new Chesapeake Bay Landscape Professional Certification, which is currently being piloted in Hampton Roads and the DC area (October 2016 – January 2017).
- Partnered with DCR Natural Heritage, Wetlands Watch and ES RC&D staff on a public Earth Day event in Exmore on the Eastern Shore in April, including native tree plantings in support of the Plant ES Natives Shore Big Tree program, as well as a free, public presentation by Doug Tallamy about the critical need for increased native habitat on residential properties.
- Worked with DCR Natural Heritage staff to produce new state-wide native plant region map (an expansion of a coastal zone-wide map previously delineated which has guided the development of regional native plant campaigns and guides). With publication of the Southeast (HR) guide and upcoming Central Rappahannock guide, only one regional guide (possibly two) would be needed to have a set of native plant guides covering all the planting regions within the CZ.

Recent results of the Partnership's efforts include VNLA's focus on encouraging its member nurseries to increase propagation of a list of native plants identified as needed to meet local water quality BMP needs, and encouraging its member landscapers to use native plants and design landscapes in a way that mimics natural plant community structure and dynamics, including an August keynote presentation during the annual VNLA Field Day by Claudia West, author of *Planting in a Post-wild World: Designing Plant Communities for Resilient Landscapes*.

Continued to consult with partners on implementation and development of regional native plant campaigns, including GWRC staff and regional planning team to conduct pre-campaign research (public survey and focus group) and to design a Plant Central Rappahannock Natives campaign strategy; and, with a team of over 10 regional partner organizations in Hampton Roads to produce a new native plant guide for Southeast Virginia. Also designed a new Plant HR Natives logo to include on the guide. This collaboration has established a regional partnership and set the stage for development of a comprehensive regional strategy.

Final Products	% Completion	Anticipated Completion Date
Outreach and Social Marketing Strategies	100%	
Printed Media – magazine production delayed <input type="checkbox"/>	100% <input type="checkbox"/>	
Events and Training	100%	
Electronic Media	100%	

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

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**Performance Report, Section A, for Cooperative Agreement No. NA15NOS4190164  
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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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2015	9/30/2016	12/31/2016		

Progress on this task is reported under Task 1.01.

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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2015	9/30/2016	12/31/2016		

VCU CES staff: -Performed Coastal GEMS maintenance including installing software/security updates and refreshing map services as necessary. From April 1, 2016 to September 30, 2016, Coastal GEMS received 878 visits from 590 unique visitors with an average site visit time of 1 minute and 19 seconds. Coastal GEMS layers updated during the grant period include: Current Population, Population Change, Conservation Lands, Private Oyster Leases, Baylor Grounds, Oyster Aquaculture Vulnerability, Clam Aquaculture Vulnerability, Development Vulnerability Model, and Agricultural Value Model. Coastal GEMS can be accessed online at: [www.coastalgems.org](http://www.coastalgems.org)

The Coastal GIS Coordinator: -Secured tabular and spatial data updates for nine current Coastal GEMS layers from data providers and processed and/or prepared data for effective display on Coastal GEMS. Provided symbolized map packages to VCU CES staff to update Coastal GEMS map services and updated Coastal GEMS factsheets as necessary.

- Responded to Coastal GEMS data and information requests including: providing spatial data in requested formats to DCR Planning and Recreation Staff, Northumberland County Planning staff, Timmons Group GIS staff, and Angler Environmental GIS staff and providing NOAA Geospatial Coordinator with Coastal GEMS fact sheet template and completed sample fact sheet requested for use as a model for development MarineCadastrre.gov "uses" pages
- Worked with VA DCR-NHP, VA DGIF, and VCU CES GIS staff to produce proposals for FY14 and FY16 CZM funds to update the Coastal VEVA data synthesis (as well as many of the key datasets it synthesizes) and update and enhance the Coastal GEMS mapping application. Worked with VCU CES staff to create survey for potential Coastal VEVA users
- Drafted articles for CZM Magazine on Collaborative Fisheries Planning for VA's WEA and Coastal VEVA Update
- Demonstrated MARCO Ocean Data Portal for US Dept. of State Foreign Press Center representatives and foreign correspondents at DEQ and also at reception before Ocean Frontiers II film screening at the Science Museum of Virginia
- Worked with VA CZM and DCR Natural Heritage staff to delineate native planting regions and created series of maps showing planting regions including overlays with physiographic data and coverage of existing/planned native plant guides
- Performed GIS calculations and created a series of eight maps showing percent coverages of conservation easements, upland conservation easements, and conservation lands that could have been developed (i.e. without development restrictions due to being wetland or barrier island) on Virginia's Eastern Shore for use in RFP for study of Economic Impacts of Conserved Lands and created large format prints for use at Eastern Shore Economic Study kickoff meeting
- Produced additional maps as requested by VA CZM staff and partners including: map for Hampton Roads Native Plant Guide, map used to enforce rotational oyster harvest in Pocomoke and Tangier Sounds, maps for the VA CZM Magazine, and maps for the Eastern Shore Birding and Wildlife Festival including map for rack card showing festival location and drive times and large scale map showing the locations of all of the field trips to be displayed at the festival registration area

Final Products	% Completion	Anticipated Completion Date
Coastal GEMS Application Maintenance	100%	
Coastal GEMS Data Management	100%	
Coastal GIS Coordination	100%	
Coastal GEMS Training and Outreach	100%	
GIS Map Products and Services	100%	

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Task: 2	Dept. of Environmental Quality			Current Federal Total:	\$205,700.00
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:		
	10/1/2015	12/31/2016	3/31/2017		

During the period of April 1, 2016 and September 30, 2016, the Office of Environmental Impact Review/Federal Consistency (OEIR) reviewed 77 development projects and management plans for consistency with the Virginia Coastal Zone Management Program (VCP). This represents 46% of the total amount of projects reviewed (169) during this period. Major state projects accounted for 68 projects, 5 were State Corporation Commission reviews, 19 were National Environmental Policy Act (NEPA) documents without a federal consistency component, 42 were federal actions, and 35 were federally funded projects. The 42 federal actions included 26 federal agency activities, 16 federal licenses and approvals, and 0 outer continental shelf projects. The 26 federal agency activities included 4 projects submitted under the residual category pursuant to the federal consistency regulation (15 CFR 930.31c), which consisted of U. S. Department of Housing and Urban Development (HUD) mortgage insurance projects and one U. S. Department of Agriculture project. All federal consistency determinations and federal consistency certifications were completed within the established legal deadlines.

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 finalize the contract 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 February 15, 2017.

The OEIR continues to provide informal training on federal consistency requirements to consultants who prepare consistency documents for federal agencies and applicants for federal permits and maintains a website for Federal Consistency Reviews which can be accessed through DEQ's main webpage or found at <http://www.deq.virginia.gov/Programs/EnvironmentallImpactReview.aspx>. The OEIR webpage is updated weekly.

Final Products	% Completion	Anticipated Completion Date
Federal consistency, Sections A and B Semiannual Reports	100%	September 30, 2016
Consistency Information/Outreach Efforts	100%	September 30, 2016

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> Project Period Open	
Open	Start:	End:	Closeout:		
	10/1/2015	1/31/2017	4/30/2017		

Construction of the City of Hopewell's wastewater treatment plant upgrade with nutrient removal technology is nearing completion. The project began in July 2014 and is scheduled for completion by February 2017. To-date, \$41,973,117 of the \$49,129,657 state grant has been paid to the City.

In the period since April 2016, reimbursements totaling \$9,651,821 have been made to the City for this project, which exceeds the \$757,096 in State General Funds needed to provide a match for the Coastal Zone Management Program.

Final Products	% Completion	Anticipated Completion Date
Certificate to Operate – City of Hopewell nutrient reduction upgrade	85%	February, 2017

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for the period from #Name?

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> Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:	
	10/1/2015   9/30/2016   12/31/2016	

During the reporting period, VMRC received a total of 1088 joint permit applications. Actions were completed on 1082 projects, some of which were received prior to the reporting period. During the reporting period, 136 compliance inspections were conducted for previously issued permits. Also, 96 compliance inspections for the random sample of 130 projects permitted by local wetland boards were completed.

During the reporting period, local wetland boards throughout Tidewater Virginia acted on 205 projects involving tidal wetlands. Of this total, 154 were approved as proposed, 41 were approved as modified, 1 was denied, 4 are pending, 5 required no permit, and 48 required compensation either on or off site (27), or through payment of an in lieu fee (11) accounting for 20,613 square feet of tidal wetland impacts.

Final Products	% Completion	Anticipated Completion Date
Collect permit Compliance data for projects permitted by VMRC	100%	September 2016
Collect permit Compliance for wetland projects permitted in 2014	100%	September 2016
Compile data for entry into database	100%	September 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> Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:	
	10/1/2015   9/30/2016   12/31/2016	

-The Locality Liaison held Natural Heritage Data Explorer training sessions in April, June and September 2016, for two consultants, three localities, two land trusts, one non-profit and two state agencies. The presentations included an overview of DCR's Natural Heritage Program, the Locality Assistance Program, the Virginia ConservationVision, Virginia Land Conservation Treasures, Landscape, the Virginia Wetlands Catalog, Virginia Ecological Value Assessment (VEVA) and hands-on training on the Natural Heritage Data Explorer (NHDE), which includes the Species and Community Database Search, conservation lands information and project review preliminary screening functions.

-91% of the localities, 100% of the Planning District Commissions and 68% of the Land Trusts in the coastal zone have Natural Heritage data. The website map ([http://www.dcr.virginia.gov/natural\\_heritage/localitiesmap.shtml](http://www.dcr.virginia.gov/natural_heritage/localitiesmap.shtml)) displaying localities with natural heritage data has been updated reflecting the current status.

-For April 1, 2016 to September 30, 2016, 552 projects were reviewed for impacts to natural heritage resources in the coastal zone (40% of the projects reviewed statewide). 240 projects were submitted through the Natural Heritage Data Explorer representing 44% of the coastal projects submitted.

-Stafford County has requested Natural Heritage information for their upcoming comprehensive plan review this fall as well as examples of other counties' use of natural heritage information in reviewing projects.

-During this period, the Locality Liaison has reviewed 14 projects proposed for solar farms in the coastal zone, a substantial increase from prior periods. Other projects of interest include a project to add amenities to the Virginia Capital Trail as well as 5 new proposed trails, one designated for mountain bikes in Pocahontas State Park. Cell towers continue to be built or upgraded with 13 having been reviewed during this period. The Hanover-Caroline Soil and Water Conservation District has been diligent in requesting review for 7 stream exclusions and alternate grazing systems, protecting water quality. The Locality Liaison is currently in coordination with DEQ and USFWS regarding a project in Stafford County with a state and federally listed plant on site that will be impacted by the proposed development. James City County continues to request reviews for projects that intersect our B1, B2 or B3 Conservation Sites. Of projects reviewed, VDEQ has the most requests with 194, either directly or through the DCR agency review process. VDOT follows with 71 requests and VMRC with 68 requests for project review.

Final Products	% Completion	Anticipated Completion Date
Project Review	100%	
Local Assistance Program Presentations	100%	
Improvements to Natural Heritage Tools	100%	
Final Report	0%	November 15, 2016

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**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
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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>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2015    9/30/2016    12/31/2016		

**Product #1, General Technical Guidance:**

The Wetlands Program continues to provide general technical guidance to both the general public and regulatory and non-regulatory authorities with regard to tidal shorelines. CCRM provides Joint Permit Application (JPA) Reviews upon request – this is project specific advice typically involving large or complicated projects. CCRM also routinely writes VIMS Tidal Shorelines Management Recommendations for all JPAs involving shoreline erosion control activities advertised on local wetlands boards' agendas. This advice is the preferred shoreline best management practice derived from the CCRMP's (for localities where available – see <http://ccrm.vims.edu/ccrmp/index.html>) and/or the applicable CCRM Decision Trees (<http://ccrm.vims.edu/decisiontree/index.html>). Both types of reports are made available on CCRM's (<http://ccrm.vims.edu/perms/newpermits.html>) and VMRC's (<https://webapps.mrc.virginia.gov/public/habitat/>) permit websites. In addition, other advisory information requests were responded to (via phone and email) covering a variety of coastal management issues. All technical advice continues to be tracked in a database maintained under this grant.

JPA Reviews/ VIMS Recommendations = 151

Living Shoreline Advice = 16 (4 included site visits)

Other Advisory Information Requests (climate change, mitigation, etc.) = 50

Total = 217

**Product #2, Outreach Education:**

Tidal Wetlands Workshop – 5/05/16 – Legal Authority, Roles & Responsibilities of Local Wetlands Boards – There were 130 workshop participants representing 23 local governments, 4 state agencies, 10 non-profit organizations, & 15 marine related businesses. CCRM personnel and guest speakers shared their legal expertise and advice with the audience and a panel of local government staff representatives shared their experiences with administration of tidal shoreline regulations. An interactive discussion with Local Wetlands Board members in the audience further explored some of the many legal issues and challenges encountered during the shoreline permit application review process. Following the morning session, workshop participants engaged in interactive outdoor experiences related to legal issues at the VIMS Teaching Marsh & VIMS Beach. [http://ccrm.vims.edu/education/workshops\\_events/spring2016/Spring2016.html](http://ccrm.vims.edu/education/workshops_events/spring2016/Spring2016.html)

CCRM e-News June 2016 (Living Shoreline - Funding Assistance & Nationwide Permit, and Workshop Presentations)

CCRM e-News September 2016 (Rivers & Coast, National Estuaries Week, Landscape Professional Certification)

Rivers & Coast, Vol. 11 – Sea-Level Rise & Virginia's Coastal Wetlands

<http://ccrm.vims.edu/publications/pubs/rivers&coast/Summer2016Final.pdf>

Although not included in the grant task, additional outreach education training was completed for CCRMP orientation & Shoreline Best Management Practices. Seven CCRM training sessions were held for a total of 160 participants.

Final Products	% Completion	Anticipated Completion Date
Product #1, Technical Guidance	100%	
Product #2, Education/ Outreach	100%	

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>	Project Period Open
Open	Start:      End:      Closeout:		
	10/1/2015    12/31/2016    3/31/2017		

VIMS had submitted the baywide 2015 SAV numbers on March 30. Since that delivery, VIMS has entered all the ground data and began preparations for delivering the final report. The 2015 SAV data can now be viewed at:

<http://web.vims.edu/bio/sav/sav15/index.html> and also on the interactive map: <http://web.vims.edu/bio/sav/maps.html>.

Final Products	% Completion	Anticipated Completion Date
Draft Final Report - no longer a part of our program		
Final Report	0	Dec., 2016

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for the period from #Name?

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> Project Period Open	
Open	Start:	End:	Closeout:		
	10/1/2015	3/31/2017	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. 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. The focus of the upcoming season will be on the Chickahominy River and Shenandoah Valley. Planning was underway to determine the direction for new staff for the 2016 fall sampling season as well. Due to budgetary shortfalls, the contributed positions are not likely to be available without financial support.

During the reporting period, the Program Manager continued to participate in the Chesapeake Bay Healthy Waters Goal Implementation Team Four (GIT4) coordinating the involvement of VA Departments of Conservation and Recreation, Environmental Quality and Forestry. 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 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.

Though funded by the USEPA and work was performed in the Chowan basin, an output that was developed is the criteria by which states would conserve ecologically healthy resources. Final negotiations with the USEPA to finalize the criteria were completed during the period with a request to present the findings at the upcoming national EPA conference.

Final Products	% Completion	Anticipated Completion Date
Healthy Waters Program Growth and Admin	90%	March, 2017
Healthy Waters Capacity Development	90%	March, 2017
Healthy Waters Data Analysis and Evaluation	85%	March, 2017

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 May 24th and August 24th. At the May meeting two parcels for potential acquisition were discussed and there was agreement that the more southerly parcel, which is not waterfront and therefore less expensive and less susceptible to loss from sea level rise was the more desirable to pursue. This parcel is currently farm field within the critical stop-over habitat area and well suited to conversion to scrub-shrub habitat for migratory songbirds. Staff from Department of Conservation & Recreation, The Nature Conservancy and the CZM Manager visited the site that day and discussed possibilities with the land owner. At the August STP meeting it was reported that negotiations with the land owner are continuing and the land owner filed for subdivision approval from the County so that several buildings could be excluded from the potential conservation sale. All are hopeful that an appraisal could be conducted this fall/winter and 306A documentation submitted to NOAA soon after. It is anticipated that FY15 funds would purchase roughly 2/5 of the parcel and FY16 funds the other 3/5.

The Southern Tip Partnership is scheduled to meet again on November 29.

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for the period from #Name?

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 3/31/2017 6/30/2017	

Eelgrass Restoration: Eelgrass flowering shoots were collected in late May from both Mobjack and South bay beds, manually and mechanically, and placed in holding tanks at VIMS and Oyster. Seeds were subsequently removed and placed in holding tanks at VIMS under appropriate salinity and temperatures. Initial seed counts in July were approx. 1.976 million seeds from Mobjack Bay and 646,000 seeds from South Bay. The plan was to distribute seeds the last week of September but windy weather forced VIMS to cancel field work that week. Faunal and fish samples were collected in South Bay in May, June, July, August, and September.

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 3/14/16, 5/12/16, 6/24/16, 7/11/16, 8/5/16, 9/9/15 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 the entire April 1 to September 30 period. Each YSI sonde at a station was switched out with a newly calibrated sonde at approximately 2-week intervals throughout the April-September 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, 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](http://www.VECOS.org) website.

Scallop Restoration: During the week of July 13-15, VIMS staff conducted an extensive survey of wild (not caged) adult scallops in three grass beds—the original grass bed in South Bay grass bed in which most of the scallops have been caged or released (1354 acres), a newly established bed further south in South Bay (603 acres) and a grass bed in Cobb Bay (779 acres). These beds were found to contain estimated adult scallop abundances of 34,932, 14,640, and 29,173, respectively, for a total abundance of over 78,745 adult scallops. These data indicate that the bay scallop population is continuing to grow spatially through the region.

During the Fall of 2016, approximately 33,000 adult bay scallops were released into the seagrass bed in South Bay. Approximately 27,000 adult bay scallops and 157,000 juvenile bay scallops will be retained in cages in the South Bay grass bed over winter. These scallops will be cleaned and split into additional bags in the coming spring. These scallops will provide 2017 brood stock for spawning at the ESL hatchery and are expected to spawn in the field cages during the late spring and fall of 2017. The Fall spawn for 2016 was weak, coincident with odd tissue appearance of scallops in the field cages mid-summer. Analysis by the VIMS molluscan pathology group found no incidence of disease.

Final Products	% Completion	Anticipated Completion Date
Final Report	0%	May 1, 2017



Year: 2015

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

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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2015	9/30/2016	12/31/2016		

**Climate Adaptation Working Group Newsletters**

The Quarterly Newsletter was distributed to over 150 subscribers in July, August, and September, including numerous research and news items. Newsletter format was changed to a more digestible, online media friendly, biweekly format. The first of this new format was distributed August 22, with a total of three being distributed before September 30, 2016. This format is popular with recipients and will continue into the next fiscal year.

**Coastal Management Trainings**

A-NPDC has successfully directed 6 events reaching 136 people, three of which were training opportunities. Training opportunities and educational events addressed ground water, surface water quality planning, coastal hazards, water access and events including collecting household hazardous waste to protect the regional sole source aquifer.

**Technical Assistance**

A-NPDC served on local & state committees including the ES Environmental Education Council, Southern Tip Partnership, ES Watersheds Network, and VCZM Coastal Policy Team. A-NPDC staff provided technical assistance for coastal projects including the Port Tomorrow & Resilience Planning for Water-Dependent Uses and the Virginia Department of Historic Resources (DHR) in their efforts to compile the Eastern Shore historically significant architectural and archeological survey.

**Ground Water Committee**

A-NPDC held 5 Committee meetings, which aided in the development of two fact sheets. The Committee reviewed 6 groundwater withdrawal permits, completed reviews of research publications, and reviewed 1 new bill in the General Assembly session. The Committee worked closely with VDEQ staff to determine the most efficient and effective ways in which the Committee and VDEQ can work together to best manage and protect ground water resources. The Committee ensured the success of the USGS electromagnetic-induction logging for the eight wells on the Eastern Shore during the month of August. The Committee maintained the Regional Ground Water Plan and 2 County Water Supply Plans. The Committee educated local governments on local susceptibility to saltwater intrusion and pursued the development of programs to monitor the hazard. The Committee included consideration of surface water quality, natural hazards, and land stewardship in addition to ground water.

**Regional Dredging Needs Assessment Report**

A-NPDC continued to collaborate with the U.S. Army Corps of Engineers and the Eastern Shore Regional Navigable Waterways Committee (ESRNWC) to complete the Regional Dredging Needs Assessment. A-NPDC staff presented a final draft report and comprehensive tables presenting survey data and dates at the ESRNWC August meeting.

Benefits Accrued from Prior CZM Grants Report – Report was updated for 2015.

Final Products	% Completion	Anticipated Completion Date
Climate Adaptation Working Group Newsletter Report	100%	9/30/2016
Coastal Management Training Report	100%	9/30/2016
Technical Assistance Report	100%	9/30/2016
Ground Water Committee Report	100%	9/30/2016
Regional Dredging Needs Assessment Report	100%	9/30/2016
Benefits Accrued from Prior CZM Grants Report	100%	9/30/2016

Year: 2015

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

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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2015	9/30/2016	12/31/2016		

(1) Crater PDC staff processed 26 environmental impact reviews for local, state, and federal projects. (2) One coastal meeting/training session was held during the reporting period (7/12/16). The topic of discussion was Coastal Resiliency. (3) Crater PDC staff coordinated and administered regional review of the Appomattox River Trail and Signage Plan. (4) Commission staff participated in several environmental planning efforts pertaining to the Albemarle-Chowan Watershed Roundtable, the Middle James Roundtable, Chesapeake Bay TMDL, Coastal Resiliency, and Natural Hazard Mitigation. (5) Crater PDC staff continued to provide technical support to FOLAR – Friends of the Lower Appomattox River. This included hosting meetings, providing website maintenance, preparing brochures, and preparing and submitting grant proposals. Staff also assisted FOLAR with its 9/10/16 river cleanup day, its 9/24/16 Paddle or Battle, and its RFP trail planning process. (6) Staff continued work on maintaining and producing paper and internet versions of the Appomattox River Interpretive Guide.

Final Products	% Completion	Anticipated Completion Date
Environmental Impact Review Comments	100%	9/30/16
Coastal Meetings	100%	9/30/16
Coastal Training	100%	9/30/16
FOLAR Assistance	100%	9/30/16
Benefits Accrued From Prior CZM Grants	100%	9/30/16

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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2015	9/30/2016	12/31/2016		

Environmental Impact Review. Seventeen (17) environmental impact assessments/statements and coastal zone consistency determinations were reviewed. This included coordination of local government input and providing comments to DEQ for inclusion in official state positions.

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. During this period, nineteen (19) entries related to coastal resources management were posted to the HRPDC website. HRPDC hosted three (3) APA/AICP Web Conferences, helped coordinate three (3) Hampton Roads Adaptation Forums, and hosted one (1) workshop with staff from NOAA's Office for Coastal Management.

Regional Coordination Process. HRPDC staff facilitated monthly regional advisory committee meetings addressing wetlands, Chesapeake Bay issues, and other coastal and environmental issues. Through these committees, 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, the Regional Environmental Committee (REC) met five (5) times. Topics covered included regional studies and projects, the Virginia Conservation Assistance Program, working waterfronts, land cover data, hazard mitigation, the Chesapeake Bay Program, and stormwater management. The Coastal Resiliency Committee met two (2) times. Topics included administration of local floodplain management ordinances, regional studies, and partnerships with federal agencies.

Regional Technical Studies and Assistance. HRPDC staff completed work on a county- and city-level analysis of high resolution land cover data.

Benefits Accrued from Prior CZM Grants. HRPDC staff summarized the continued benefits of CZM grants addressing sea level rise and climate change.

Final Products	% Completion	Anticipated Completion Date
EIA/EIS and Coastal Consistency Review	100%	September 30, 2016
Public Information, Education, and Training	100%	September 30, 2016
Regional Coordination Process	100%	September 30, 2016
Regional Technical Studies and Special Projects	100%	September 30, 2016
Benefits Accrued from Prior CZM Grants	100%	September 30, 2016

Year: 2015

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

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> Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:	
	10/1/2015   9/30/2016   12/31/2016	

Product #1- Coastal Management Policy and Support: MPPDC staff continues to provide coastal management support to local government elected officials on floodplain management, sea level rise, wetland protection and restoration and storm water management. MPPDC continues to help shape coastal policy through collaboration with DEQ Clean Water Financing and Assistance Program staff to implement the 2015 House Bill 1734 Loans for Living Shorelines providing DEQ with program design guidelines. MPPDC staff provided information to the Division of Onsite Sewage at the Dept. of Health on how the Septic Repair Revolving Loan Program is administrated to provide a frame work for expansion of the program. MPPDC staff worked with local and state legislators to explore ways localities could leverage blue and green assets for economic development in an attempt to change the economic trajectory of the region by encouraging parity between environmental regulations and economic development.

Product#2 Local Planning Coordination: MPPDC staff convened monthly-quarterly meetings with local government administrators and local level planners. Local Government Administrators' meetings (6) included ongoing discussion related to Three Rivers Health District funding models and relations to the delivery of services; GoVirginia and the General Assembly plan for regional economic development, stormwater management, program concerns and costs, and TMDL and leveraging of blue and green assets for both financial and loading credits.

Product #3 Living Shoreline/Native Plant Public Education Display: The project intended to collect information as to planting order for Chesapeake Bay native plants based on their ability to sequester nitrogen at a faster rate than others was found to have questionable and unanswered scientific basis by James E Perry, Professor of Marine Science at VIMS. More research is needed. However MPPDC staff was able to gather information on native plants that will thrive in different maritime environments and can provide benefits to water quality. MPPDC educated local contractors on the living shoreline funding and tax exempt designation afforded under Delegate Keith Hodges HB 526.

Product #4 MP CBPAA Work Plan & Support: MPPDC staff continues to advance waterfront land acquisition by using private donations and provide technical assistance to landowners interested in donating properties in Gloucester, and Essex County. Consulted with Ed Hail, local historian from Essex County interested in locating a Captain John Smith Capture Route sign on the Brown Tract located in Essex County.

Product #5 Benefits Accrued from Prior CZM Grants: MPPDC staff 's prior work on leveraging local blue and green assets was provided to the Rappahannock River Basin Commission (RRBC)to guide them in their work attempting to commoditize silviculture operations for BMP credits, and reverse leveraging that occurred by the RRBC utilizing the prior MPPDC work funded by CZM to further the Chesapeake Bay cleanup effort.

Final Products	% Completion	Anticipated Completion Date
Product #1- Coastal Management Policy and Support	100%	
Product#2 Local Planning Coordination	100%	
Product #3 Living Shoreline/Native Plant Public Education Display	100%	
Product #4 MP CBPAA Work Plan & Support	100%	
Product #5 Benefits Accrued from Prior CZM Grants	100%	

Year: 2015

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

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>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2015   9/30/2016   12/31/2016		

NNPDC staff have continued to complete maps supporting the localities, the Northern Neck Land Conservancy, and the Northern Neck Master Gardener's Shoreline Evaluation Program. NNPDC staff held a local coordination and training meeting on 5-20-16 with staff from the Rappahannock River Basin Commission providing a training session regarding the Healthy Watersheds Forest/TMDL Project, demonstrating the value of retaining forestland in the Chesapeake Bay watershed. In addition to the county land use administrators, other local stakeholders and staff were invited to the meeting. A recap of Phase 1 of the project was provided followed by a review of the project goals for Phase 2. Lengthy discussions were carried out regarding land use planning and local concerns. NNPDC staff held a local coordination and training meeting on 9-14-16 conducted in collaboration with FEMA, USACE, DCR and other agencies. The Resiliency Workshop brought together county and town staff throughout the region, along with staff from numerous State and Federal agencies, to discuss resiliency planning for the Northern Neck region. Among the topics discussed were agency programs and tools for hazard mitigation, non-regulatory flood risk products, the value of promoting hazard mitigation and the regional Hazard Mitigation Plan (HMP). A breakout session included review of previous HMP actions, developing a vision for the HMP update, and using flood risk products to enhance the HMP. NNPDC staff utilized the countywide zoning and tax map GIS data obtained from Lancaster County to complete the printing of 41 large format zoning maps. NNPDC staff completed the Northumberland County GIS Enhancement grant product, downloading the LIDAR DEM's for Northumberland County creating an ArcGIS map project with adjusted legends for seamless viewing and installing the LIDAR data on Northumberland County's GIS computers. NNPDC staff completed work on the Lower Coan River Water Trail near Lewisetta and the Upper Great Wicomico River Water Trail near Bush Mill Stream Natural Area Preserve. NNPDC staff utilized photos obtained and interpretive narrative and digital mapping to complete water trail brochures for each trail. NNPDC staff utilized countywide zoning and tax parcel GIS data and a list of zoning revision updates obtained from Richmond County to complete an update to the County's zoning data and symbolize any conditionally zoned parcels. NNPDC staff facilitated the completion of a GIS training plan for Westmoreland County to include a multifaceted training approach that will benefit county staff of various GIS proficiencies. NNPDC staff have identified benefits accrued from products completed under previous VACZM grants.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Support	100%	
Local Coordination and Training	100%	
Lancaster County Zoning Map Update/Printing	100%	
Northumberland County GIS Enhancement: LIDAR Data	100%	
Northumberland County Two Water Trail Maps	100%	
Richmond Co Digital Zoning Map Revision	100%	
Westmoreland County GIS Training	100%	
Benefits Accrued from Previous VACZM Grants	100%	

Year: 2015

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

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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2015	9/30/2016	12/31/2016

**Coordination & Training:**

NVRC provided coordination for local governments on the Virginia Outdoors Plan Meeting, Potomac Heritage National Scenic Trail Southern alignment meeting, and Neabsc Creek Boardwalk/tidal wetland viewing platform design.

NVRC also collaborated with the Coastal Zone Management Program and other PDC's in the Virginia coastal zone by participating in the spring coastal PDC meeting held at the Hampton Roads Planning District Commission on May 3, 2016.

The Coastal Technical Assistance Program allows NVRC staff to be a part of the Virginia Coastal Policy Team (CPT). NVRC continued to support the Virginia Coastal Policy Team by participating in the September 20, 2016 meeting at DEQ in Richmond, VA.

**Special Project – Northern Virginia Clean Water Partners:**

During this reporting period, the NVRC continued to coordinate the Northern Virginia Clean Water Partners “Only Rain Down The Storm Drain” education campaign. NVRC worked with Comcast Spotlight to utilize television, print, internet advertising and the Only Rain Down the Storm Drain website to distribute messages linked to specific non-point source pollution problems, such as proper pet waste disposal, over fertilization of lawns and gardens and proper disposal of motor oil. In addition to the multi-channel media campaign, educational events hosted throughout the Northern Virginia region also raised awareness and encouraged positive behavior change in residents. The television and internet ads featured the well known national symbol of non-point source pollution; the rubber ducky. One ad was translated into Spanish and aired on several Spanish language networks. These ads resulted in 16,750, 230 household television impressions, 1,381,317 digital impressions, and 37,489 visits to the [www.onlyrain.org](http://www.onlyrain.org) website.

A post-campaign survey was conducted of 500 northern Virginia residents to measure the effectiveness of the campaign. A summary report for the campaign including the number of people who viewed the ads was prepared and distributed to the Partners in September 2016 for inclusion in their annual MS4 reports. <http://www.onlyrain.org/>

NVRC staff hosted a Clean Water Partner's meeting on August 24, 2016, which included presentations from the NVRC demographer and Arlington County, on Illicit Discharge Education and Outreach in an increasingly diverse region.

Since April 2016, NVRC staff have reviewed and commented on 1 EIR request across the region.

Final Products	% Completion	Anticipated Completion Date
Coordination & Training	100%	9/30/2016
Special Project – Northern Virginia Clean Water Partners	100%	9/30/2016
Benefits accrued from prior CZM grants	100%	9/30/2016

Year: 2015

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

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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2015	9/30/2016	12/31/2016

GWRC has been holding coordination/training meetings for the Regional Stormwater Managers Technical Committee and participating in quarterly Coastal PDC meetings with DEQ-CZM staff. The Regional Stormwater Managers meetings are held for members to discuss topics of interest related to stormwater management and to improve understanding of stormwater regulations and best practices. Regional Stormwater Managers meetings were held on April 19th, July 21st, and September 20th. Quarterly PDC meetings continued throughout the grant cycle.

GWRC utilized a GIS mapping intern to create a classified land cover data layer that identified the region's gray and green infrastructure.

A model environmental ordinance was drafted for Caroline County which consolidates the requirements for the Erosion and Sediment Control Law (ESCL), Stormwater Management Act (SWMA), Chesapeake Bay Preservation Act (CBPA), Construction General Permit, and the Virginia Floodplain Management program. Caroline County staff provided feedback throughout the ordinance development process. The model environmental ordinance was presented to the Caroline County Planning Commission on August 18, 2016.

GWRC brought together partners interested in collaborating on a regional native plant campaign to form a steering committee to identify available resources for a campaign and conduct an assessment to inform development of a campaign strategy. The Regional Native Plant Campaign Steering Team posted an online survey from May-June 2016. GWRC also hosted a focus group on July 26, 2016. The discussions generated from the focus group mirrored the online survey results to a large extent. In general, participants of the online survey and the focus group were a more educated audience on the topic of native plants, but there is a need for more information about native plants and where to purchase them. The Regional Native Plant Steering Team identified buyers (homeowners, developers, professional landscapers, and HOAs) as the primary audience for the campaign. The Steering Team decided suppliers (installers, designers, retailers, and nurseries) would be the secondary audience. The Steering Team held a final meeting for this grant cycle on September 21, 2016 to outline the other components of the campaign strategy including native plant image/perception, barriers, availability, education objectives, behavior change measures, and timing of campaign "rollout."

Final Products	% Completion	Anticipated Completion Date
Minutes of coordination meetings, digital copies of training material, program and financial reports	100%	
GIS data layer	100%	
Draft model environmental ordinance	100%	
Report Outlining attendance & results of steering/planning team meetings and assessment work accomplished and draft campaign strategy	100%	
Benefits Accrued from Prior CZM Grants	100%	

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2015**

**Performance Report, Section A, for Cooperative Agreement No. NA15NOS4190164  
for the period from #Name?**

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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2015	9/30/2016	12/31/2016

Technical Assistance Report – RRPDC staff processed 32 environmental reviews and 19 intergovernmental reviews during the reporting period.

Coordination & Training Report – On April 7, 2016, RRPDC staff facilitated an Environmental TAC meeting. City of Richmond staff provided an overview of the RVA H2O process, the integrated permit planning process underway in the City of Richmond. There was also a roundtable discussion about local program updates and considerations for educating elected officials and administrative personnel about the costs and requirements associated with environmental permitting and programs.

On May 24, 2016, RRPDC staff facilitated an Environmental TAC meeting. Discussion revolved around the best ways to educate local elected and administrative leaders about the programs, policies, and permit associated with the Clean Water Act. The TAC resolved to start with a presentation to the RRPDC Board.

On June 17, 2016, RRPDC staff hosted an Environmental TAC meeting. DEQ staff provided a training and Q & A session for local staff about a new BMP input web portal under development.

On July 14, 2016, a staff representative from the Environmental TAC provided an educational presentation to the RRPDC Board on the programs and permits related to the Clean Water Act.

On July 27, 2016, RRPDC staff hosted an Illicit Discharge Detection and Elimination (IDDE) Workshop for interested localities in the Richmond and Crater regions. Staff from the Center for Watershed Protection provided presentations and related materials on efficient and effective operation of a local IDDE program.

Report on Local Implementation Advocacy – RRPDC staff continues to work with Groundwork RVA, serving as Board Chair, to create and implement programs and projects that educate youth about water quality, green infrastructure and the environment and improve urban neighborhoods. Projects and programs range from youth education in a “Green Team” format to creation of neighborhood improvements on vacant land, such as trails, outdoor classrooms and urban agriculture sites.

Report on Green Infrastructure Analysis – RRPDC staff has analyzed the regional green infrastructure forest core layer. A report will be provided in the Final Report.

Benefits Accrued – RRPDC staff keeps a log of actions, projects, events, etc that can be included in this report. Updates to the log are made throughout the year and will be used to write the final report.

Final Products	% Completion	Anticipated Completion Date
Technical Assistance Report	100%	September 30, 2016
Coordination and Training Report	100%	September 30, 2016
Report on Local Implementation Advocacy	100%	September 30, 2016
Report on Green Infrastructure Analysis	100%	September 30, 2016
Benefits Accrued	100%	September 30, 2016

Year: 2015

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

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>	Project Period Open
Open	Start: 1/1/2016	End: 12/31/2016	Closeout: 3/31/2017

This grant officially started on January 1, 2016. During the period from April through September 2016, the Virginia Aquarium Stranding Response Program (VAQS) recorded 242 strandings in Virginia. There were 240 strandings recorded during the same period in 2015.

The VAQS Stranding Team responded to 55 marine mammal strandings in Virginia during this reporting period and all were cetaceans. Stranding distribution included 15 (27%) in Virginia Beach, 6 (11%) in Norfolk, 1 (2%) in Portsmouth, 21 (38%) on the eastern shore, and 12 (22%) on the western shores of the Chesapeake Bay north of the James River. The cetacean species included 50 bottlenose dolphin (*Tursiops truncatus*), 1 harbor porpoise (*Phocoena phocoena*), 1 sperm whale (*Physeter macrocephalus*) and 1 minke whale (*Balaenoptera acutorostrata*). The Team also responded to 1 Cuvier's beaked whale (*Ziphius cavirostris*) in North Carolina. Three of the cetaceans were alive upon first reports of stranding. Two bottlenose dolphins were in very poor condition and were humanely euthanized in the field. The beaked whale died on the beach in North Carolina.

There were 187 sea turtle strandings recorded in Virginia during this reporting period, compared with 160 during the same period in 2015. Stranding distribution included 97 (52%) in Virginia Beach, 20 (11%) in Norfolk, 2 (1%) in other southside cities, 26 (14%) on the eastern shore, and 42 (22%) on the western shores of the Chesapeake Bay north of the James River. The sea turtle species included 94 loggerhead (*Caretta caretta*), 66 Kemp's ridley (*Lepidochelys kempii*), 5 green (*Chelonia mydas*), 8 leatherback (*Dermochelys coriacea*), and 14 animals that were unidentified to species. There were 61 live sea turtle strandings during this reporting period. The probable cause of stranding for 59 (32%) of the turtles was entanglement, and 43 (23%) had signs of watercraft related injuries. There were multiple sea turtles in rehabilitation at the end of the study period.

VAQS staff attended professional meetings and workshops and made several formal presentations during this reporting period. 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 1,000 hours and Stranding Team volunteers contributed more than 8,000 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	% Completion	Anticipated Completion Date
Stranding Response Data Sharing and Reporting	75%	December 31, 2016
Personnel and Cooperator Training Activities	85%	December 31, 2016
Public Education and Outreach Activities	90%	December 31, 2016



**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2015**

**Performance Report, Section A, for Cooperative Agreement No. NA15NOS4190164  
for the period from #Name?**

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>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2015	9/30/2016	12/31/2016		

The Friends of the Rappahannock Group portion of the grant consisted of the development of a water trail that started at the Port Royal canoe and kayak launch at the end of King Street. The trail is made up of three paths along the Rappahannock River. The trails overlap but are designed for the novice, intermediate and advanced paddler. A significant part of the water trail includes a landing at the Port Royal Refuge Unit that is accessible only by water. Upon landing, canoers and kayakers can walk the 1.5 mile trail. The grant included water trail signs, landing signs, observation decks and resting benches. A group of friends members wrote a hardcopy water trail brochure as well as all of the documentation used to develop an IOS based water trail app that can be downloaded from the apple store

In conjunction with this work, the materials for the decks were purchased and volunteers built the two decks on the Port Royal Unit. The materials were purchased with non-grant dollars and were considerably less than the original estimate because the placement of the decks did not require the altitude that was originally priced in the grant application (4 foot high with matching ADA ramp). The grant included three resting benches. One bench was paid for by a volunteer which further reduced the amount spent on the grant.

The grant provided for four water trail signs placed at each of the landings to publicize the trail and to help paddlers follow the trail. After looking at the placement of the signs, it was determined that the sign at the Port Royal launch should have a set of signs facing the road as the paddlers come in to launch and another set on the other side facing the water for those paddlers coming in from the water. An additional set of signs were ordered. The waterfront signs were paid for with non-grant dollars.

A hardcopy water trail brochure was developed that is printed on waterproof paper and will be put at the launch site and at the Refuge entrance kiosk. In addition, the brochures will be given to local businesses and tourist stops. The Friends Group will also distribute the brochures at their public events. The original proposal called for printing 10,000 brochures; however, the steering committee felt very strongly that there should also be a technology element added to this project to attract the younger paddlers. It was decided to only purchase 3,000 copies of the brochures since many people would be utilizing the app. The water trail app is written in IOS and will be available for download from the Apple Store at no charge to the public. This app features all of the Points of Interest that are in the hardcopy brochure. In addition, there are in-depth articles about the birds, plants, historical houses, and Native American lore (with tie-in to the John Smith Trail).

In regards to the Port Royal Pier Extension, this work was completed in January 2016. This granted added 100 feet to the newly constructed pier bringing the total length to 200 Feet.

Final Products	% Completion	Anticipated Completion Date
Port Royal Water Trail Brochure Design and Printing	100%	
Port Royal Trail Signage	100%	
Construction of 2 Elevated Observation Decks and 3 Resting Benches	100%	
96 Foot Extension of Port Royal Pier	100%	

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	3/31/2017	6/30/2017		

The HRPDC staff has continued to work with Isle of Wight County staff to finalize 306a documentation, acquire necessary permits, and finalize design documents and contracts.

Final Products	% Completion	Anticipated Completion Date
Construction of a Canoe/Kayak Launch	0%	March 31, 2017

Year: 2015

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

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 3/31/2017 6/30/2017		

The HRPDC staff and the City of Norfolk executed a Memorandum of Agreement for the project. The City of Norfolk issued a work order in June 2016 for additional design plans and specifications for the kayak launch under the city's existing indefinite quantity contract. The original Product 1 - Project Management, is no longer included in this report because HRPDC is now addressing this task through its technical assistance program. A budget amendment was approved to shift all project management funds to the contractual line item in order to provide additional funds for the City of Norfolk to complete the 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>	Submit w/next Semiannual Report
Closeout	Start: End: Closeout:		
	10/1/2015 9/30/2016 12/31/2016		

Product #1: Research & Inventory Current Locality Public Access Policies: MPPDC staff reviewed and generated a list of ordinances, reports, plans, and policies of Middle Peninsula localities associated with public access within their jurisdiction. Middle Peninsula localities had an opportunity to review inventory and make necessary additions to properly reflect their public access policies. This inventory was inserted into the Middle Peninsula Public Access Master Plan (Appendix H). MPPDC staff worked with Middlesex County to assess access sites throughout their jurisdiction. In part, MPPDC staff analyzed survey results and hired two Virginia Commonwealth University students to conduct site specific assessments. The completed assessments have been sent to Middlesex County staff and have prompted the scheduling of 7 neighborhood meetings that will focus on site specifics and will allow adjoining property owners to relay concerns and suggestions regarding each site. Information will be gathered and utilized to enhance the site assessments. A public meeting will also take place that will be incorporated into the assessment.

Product #2: Organize policies, tools, and regional case studies: MPPDC staff reviewed the PAA policies, management tools and case studies to comprehensively demonstrate the PAA efforts and management tools. With almost 1000 acres of public sites, the PAA has utilized and implemented a variety of management tools and policies to help manage use of the lands. While some of these tools and policies have been used in anticipation of public land use, others have been implemented in response to issues/conflicts that have occurred on PAA land. Tools and policies implemented by the PAA have included by-laws, operating agreements, land management and wildlife habitat management plans, harbor management plans, protocols and guidelines, policies, education & outreach, and a reservation and use management system. This gathered information has been incorporated into the public access master plan (Chapter 4).

Product #3: Middle Peninsula Public Access Master Plan: MPPDC staff organized the inventory of public access policies in Middle Peninsula localities, tools and policies utilized by the PAA, and developed a roadmap for public access in Middle Peninsula. The plan presents 8 recommendations that will improve public access in the Middle Peninsula.

Final Products	% Completion	Anticipated Completion Date
Research & Inventory Current Locality Public Access Policies	100%	September 2016
Organize policies, tools and regional case studies	100%	September 2016
Middle Peninsula Public Access Master Plan	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: 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>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2015    9/30/2016    12/31/2016		

Product #1 Declaration of a Need for Local Public Policy Discussion MPPDC staff obtained a declaration of need from Mathews Planning Commission for information and assistance in understanding the options available to local government in addressing recurrent flooding in high risk areas. MPPDC and Mathews County signed a letter of engagement to commence the study proposed by MPPDC which included a meeting schedule and regular coordination with Mathews County staff and the Mathews County Planning Commission. The Mathews Planning Commission during the project expressed a need for policy that would support: "Live with the water"

Product #2 Planning Techniques Commonly Used in Land and Natural Resource Protection MPPDC staff completed research and compiled data for a comprehensive toolkit outlining the various planning, regulatory and financial tools local governments may employ to manage development in high risk areas. Virginia Coastal Policy Clinic, located at the College of William and Mary Law School completed a final report focusing on designing and adapting a Transfer of Development Rights (TDR) program specific for Mathews County to combat recurrent flooding problems (including discussion of Purchase of Development Rights).

Product #3 A Mathews County Policy Analysis MPPDC staff completed a review of Mathews County Land Use Policy documents to determine how and if the County is currently using policy to address recurrent flooding and to what extent. Broad groupings were used: Planning, Regulatory, and Financial Incentives. Classifications were then assigned to include: in place, in practice to some degree, not in practice and which tools are being used or could be used to address recurrent flooding.

Product #4 The Use of Land Donations for Property Owner Assistance in High Risk Areas MPPDC staff and VCPC staff has completed research and compiled approaches and illustrative examples of leveraging waterfront land for economic benefit. Case Study of the legal mechanics of using donated waterfront property for matching funds for grant leveraging was completed by VCPC.

Final Products	% Completion	Anticipated Completion Date
Product #1 Declaration of a Need for Local Public Policy Discussion	100%	September 30, 2016
Product #2 Planning Techniques Commonly Used in Land and Natural Resource Protection	100%	September 30, 2016
Product #3 Mathews County Policy Analysis	100%	September 30, 2016
Product #4 The Use of Land Donations for Property Owner Assistance in High Risk Areas	100%	September 30, 2016

Year: 2015

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

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>	Project Period Open
Open	Start: End: Closeout:		
	10/1/2015 12/31/2016 3/31/2017		

Product #1: Revision of chapters in the digital file has been completed. The text has also been added to the www.NNKgreen.org website, with each chapter becoming a page on the site. A PDF version has been submitted to VA CZM.

Product #1: Printing 5,000 copies of the revised guide is pending: An extension and scope-modification request was submitted to VA CZM on 9/30/16 to replace this action with additional development and marketing of the NNKgreen.org website.

Product #2: Meetings with the Northern Neck Environmental Consortium, to coordinate development of an environmental website, took place on 4/26/16 and 8/23/16. Participants included representatives from Belle Isle State Park, Caledon State Park, Citizens Climate Education, Friends of Belle Isle, Springs Farm, Northern Neck Chapter of the National Audubon Society, Northern Neck Chapter of the Virginia Native Plant Society, Northern Neck Land Conservancy, Northern Neck Master Gardeners, Northern Neck Master Naturalists, Northern Neck Soil and Water Conservation, Northumberland Association for Progressive Stewardship, The Wetlands Project, Three Rivers Environmental Educators, Tidewater Oyster Gardeners Association, and Westmoreland State Park. Additional meetings have taken place with representatives from the Consortium to further develop the website. More meetings are scheduled for 10/18/16 and 11/10/16. The reasons for the extra meetings were addressed in a grant-extension request (to 12/31/16) that was approved by VA CZM.

Product #2: Development of an environmental website that will house a calendar of environmental education events in the region, as well as environmental information: The website has been set up at www.NNKgreen.org. Plans to expand it are in place, pending submittal of a budget amendment by NNPDC.

Product #2: Press release to announce the launch of the website, detailing the concept and the cooperative nature of the participating environmental organizations is pending. Although the website is live, it has not been officially launched.

Product #2: Design of a postcard announcing the new website, giving the web address and briefly describing the site's purpose, has been completed.

Product #2: Printing of 1,000 NNKgreen.org postcards is on hold, pending pending submittal of a budget amendment from NNPDC to 5,000 postcards instead of 1,000.

Final Products	% Completion	Anticipated Completion Date
Product #1	90%	12/31/16
Product #2	80%	12/31/16

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:		
	10/1/2015 3/31/2017 6/30/2017		

This task has not yet been contracted. The intent is to contract with the William and Mary Coastal Policy Center (CPD) to continue work developing narrative enforceable policies. After more work has been completed under FY 14 Task 91 - DGIF to the CPC, it will be easier to understand the level of effort necessary to develop new policies. A better informed scope of work can then be developed and contracted for this task.

Year: 2015

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

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>	Project Period Open
Open	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 met on May 7, 2016 and September 14, 2016. At the May meeting, the Committee discussed the Master Plan’s conclusion and recommendations for Federal, State, Regional and Local Governments as well as the private sector to consider. At the September meeting, there was discussion regarding a local government recommendation stating, “Extend local zoning provisions to cover land and water uses to avoid future conflicting water uses”, which was a concern for the Shellfish Growers of Virginia. Upon review by the Committee and discussion with the Shellfish Growers of Virginia, it was decided to make no substantive change to the body of the report, but to clarify a recent Virginia Supreme Court ruling (Jennings –v- Northumberland County) specific to local governments zoning authority over piers, docks and wharfs.

Product #2: State Wide Response Concerning Working Waterfront – 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 the 4th Chapter of the Virginia’s Working Waterfront Master Plan.

Product #3: Assembly of the Virginia WWF Master Plan – Neal Barber took the chapters submitted by the PDCs, the State-wide Response Chapter submitted by Don McCann, and added an acknowledgements page, an executive summary, introduction, and a conclusion with recommendation to complete the Virginia’s Working Waterfront Master Plan.

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 Planning District Commission has adopted the plan and MPPDC staff have presented the plan’s recommendations to the Board.

Product #5: Rural Chesapeake Bay/Seaside of Virginia Working Waterfront Coalition Summit #2 – At the very first meeting of the Committee, it was decided to join the Virginia Coastal Policy Clinic at William and Mary University and their efforts to put on their annual conference. MPPDC staff organized an email list of attendees that attended the previous Working Waterfront Summit which will be used as an invite list for the conference. To date, the following information is known: Conference Title - “Living with the Water – Too Much, and Too Little”; 9 AM Friday, December 2, 2016, at the Williamsburg Lodge in Williamsburg, VA. The morning session will be jointly held with the 2nd annual Working Waterfronts Summit, with presentation and discussion of the new Virginia Working Waterfront Master Plan. The afternoon session will focus 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.

Final Products	% Completion	Anticipated Completion Date
Working Waterfront Executive Committee Initial Report	90%	December 2016
State Wide Response Concerning Working Waterfronts	100%	April 2016
Assembly of the Virginia WWF Master Plan	100%	September 2016
Design of a Draft Working Waterfront Resolution	100%	September 2016
Rural Chesapeake Bay/Seaside of Virginia Working Waterfront Coalition Summit #2	60%	December 2016

Year: 2015

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

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> Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:	
	10/1/2015   9/30/2016   12/31/2016	

This project develops Shoreline Inventories, Shoreline Evolution Reports, and Shoreline Management Plans in an effort to provide guidance on policy implementation and enhanced shoreline best practices for local governments in the coastal zone of Virginia. To date, the following progress has been made toward completion of 3 Shoreline Evolution Reports (Norfolk, Chesapeake, and Prince George), 2 Shoreline Inventories (Accomack, Prince George), and 2 Shoreline Management Plans (Gloucester and Prince George).

Shoreline Inventories for Prince George and Accomack County have been completed and materials are now ready for delivery to the counties and DEQ.

Development of the Shoreline Evolution Reports are undergoing their final QA/QC before publication and posting.

Shoreline Management Plans are having their final review before they go to the VIMS publication office for formatting and printing.

Final Products	% Completion	Anticipated Completion Date
Shoreline Inventories	100%	September 30, 2016
Shoreline Evolution Reports	100%	September 30, 2016
Shoreline Management Plans	100%	September 30, 2016

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   3/31/2017   6/30/2017	

During this grant period, the HRPDC staff

-compiled existing comprehensive plans, hazard mitigation plans, and floodplain management ordinances for cities and counties in Virginia's Coastal Zone

-documented whether and how the comprehensive plans and hazard mitigation plans incorporated sea level rise and flood management

-documented the Community Rating System classification for coastal communities in Virginia, if applicable

-researched the highest rated coastal communities in the Community Rating System to determine which activities they were doing to obtain their ratings, with an emphasis on East Coast communities

Final Products	% Completion	Anticipated Completion Date
Assessment of Coastal Hazards in Current Local Plans and Policies in Virginia	75%	March 31, 2017
Coastal Hazards Planning Case Study Identification and Analysis	25%	March 31, 2017
Assessment of Best Practices for Addressing Coastal Hazards in Local Policies	10%	March 31, 2017
Education and Training on Best Practices Addressing Coastal Hazards	0%	March 31, 2017

Year: 2015

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

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

Product #1 Mathews County Board of Supervisors (BOS) reaffirmed a public policy need for technical analysis and strategic planning assistance for ditch maintenance in the County. The BOS is awaiting a special called meeting by Virginia Delegate Keith Hodges to convene and discuss policy alternatives. Community concern for a policy solution has become vocal and vitriolic. The meeting will include representatives from Virginia's Attorney General Office, VDOT Commissioner's office, Virginia Coastal Policy Clinic, DEQ Senior Management and MPPDC staff. A project no cost extension has been requested to allow more time for Delegate Hodges to convene the meeting.

Product #2 . Draper Aden Associates provided MPPDC and VCPC with maps of the designated areas in Mathews County with outfall ditches highlighted. These target areas were selected by Mathews County staff and the Ditch Committee. The VCPC is using this information to conduct research, compile deeds, and easement documentation to determine ownership and maintenance responsibility.

Product #3 The Virginia Coastal Policy Clinic (VCPC), Located at the William and Mary Law School, has completed a draft report intended to provided legal information and policy options useful to the Mathews County Board of Supervisors. The report particularly focuses on the allocation of maintenance responsibilities for the drainage ditches. The VCPC is awaiting the called meeting by Delegate Keith Hodges as described in Product #1.

Product #4 Draper Aden Associates (DAA) staff has completed a GIS geodatabase to house necessary ditch data (ownership, maintenance, aerial and lidar terrain surface maps). A spread sheet describing layer attributes has also been completed. Mathews county has been given several options for hosting the geodatabase, with the most likely option being ESRI's ArcGIS Online web service.

Final Products	% Completion	Anticipated Completion Date
Declaration of Public Policy Drainage Concern and Action	99%	3/31/17
Mathews Target Area Ditch Maps	100%	9/30/16
Research and Compile Land Records Data	95%	3/31/17
Design framework of a Ditch Maintenance Database	100%	9/30/16

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2015**

**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> Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:	
	10/1/2015   9/30/2016   12/31/2016	

**Campaign Promotional and Marketing Materials**

During this reporting period, many new promotional and marketing materials were developed for the campaign including; mailable kits for tabling events, additional handouts for consumers, postcards that can be handed out at events where the guide can't be sold, coloring banners for kids, social media posts (facebook, twitter, Instagram, and LinkedIn), on-line photo sharing folder, garden designs, materials for faith communities, volunteering ideas, and lists of native plant species that are easy to find at local garden centers. The website <http://www.plantnovanatives.org/home.html> is regularly updated with new information and promotional materials. The materials can be viewed here <http://www.plantnovanatives.org/nova-natives-toolkit.html>. Several of the promotional materials have been translated into different languages including Spanish, German, Vietnamese, Korean, French, Arabic, and Farsi so that the diverse population of Northern Virginia has access to the information. Promotional video ads have also been developed and plan to be piloted for social media use in Grant Year 2016.

**Community Leader Coordination**

NVRC has been organizing the campaign's corps of volunteer Community Leaders for various outreach events, providing logistical and administrative support, and working with volunteers on development of marketing and educational materials. NVRC also tracks the activities of volunteer Community Leaders so that the enormous effectiveness of the Community Leader program can be captured.

**Recommendations for Native Plant Enforceable Policy**

NVRC worked with a subcommittee of the Steering Team to develop a set of common definitions for managed natural landscapes, noxious weeds, turf grass, and native plants to be used in local weed ordinances. NVRC staff developed a resolution to be presented to the Commissioners and other local officials that recognizes the essential value and importance of Virginia native plants in a managed natural landscape and also acknowledges that managed natural landscape means a planned, intentional and maintained planting of native grasses, wildflowers, forbs, ferns, shrubs or trees, including but not limited to rain gardens, meadow vegetation, and ornamental plantings. To put the weed ordinance and resolution into a larger, landscape context, NVRC staff developed a document that includes "Tools for Preserving, Maintaining, and Increasing Indigenous Cover in Northern Virginia."

Final Products	% Completion	Anticipated Completion Date
Evaluation of Pilot Strategy and Launch	100%	9/30/2016
Campaign Promotional and Marketing Materials	100%	9/30/2016
Plant NoVA Natives Campaign Launch and Training Events	100%	9/30/2016
Community Leader Coordination	100%	9/30/2016



Year: 2015

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

Task: 95.01 Virginia Commonwealth University Virginia Ocean Plan	Current Federal Total: \$60,000.00	
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	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.

Early in the reporting cycle, the Coordinator provided technical assistance to a panelist on the Ocean Frontiers panel. Technical assistance was in the form of personal communication on the issues pertinent to the topic and to prepare the panelist for their requested role.

Mid-summer, the OPSE Coordinator attended the MARCO Open House Listening Session at the Virginia Aquarium & Marine Science Center. The MARCO requested the Coordinator to staff the offshore energy poster to interact with participants. During the session, BOEM staffed the poster and fielded the direct interaction. Attendance provided the Coordinator opportunities to directly interact with the attendees, specifically those in the commercial fishing sector. These opportunities continue to strengthen the relationship between the offshore commercial fishing industry and the VA Coastal Zone Management Program.

Mid-late in the reporting cycle, the OPSE Coordinator provided direct support for the Mid Atlantic Regional Council on the Ocean (MARCO) Marine Life Data Analysis Team (MDAT) in Baltimore for their workshop to improve access to those data. Preparation leading up to the meeting allowed for an understanding of the support role being requested by the MARCO Portal Team. Following the meeting, the Coordinator worked closely with a Research Analyst at the Duke University Marine Geospatial Ecology Lab to summarize the notes collected during the breakout session.

Late in the reporting cycle, the OPSEP Coordinator was requested to provide guidance to the VA Aquarium & Marine Science Center on a proposal to nominate the Norfolk Canyon as a National Marine Sanctuary. Specifically, the Coordinator outlined suggestions to engage the offshore commercial and recreational fishing sectors to communicate their proposal. Additionally in the same period, the OPSE Coordinator was nominated by the McAuliffe Administration to the BOEM Offshore Renewable Energy Task Force. The Coordinator attended the Task Force meeting in Virginia Beach on September 22 at the Virginia Beach Wyndham.

Final Products	% Completion	Anticipated Completion Date
Report on Ocean Stakeholder Engagement and VA Ocean Users Needs	90%	March, 2017

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

The original budget for this task was \$44,400. \$5,393 was transferred to Task 95.03 for planning for a 2017 Social Marketing training for marine debris. \$39,007 remained in this task until a scope of work was submitted to NOAA and approved in September for \$20,121 for incorporating data collected through Mid-Atlantic Ocean planning efforts into a Virginia Marine Mammal Conservation Plan. \$18,886 remains to be reprogrammed into a new Ocean Resources Strategy task.

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> <span style="float: right;"><u>Final deliverable(s) status:</u> Project Period Open</span>
Open	Start:      End:      Closeout: 10/1/2015   3/31/2017   6/30/2017

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 and CZM staff consulted with many groups regarding marine debris-prevention topics including:

1. Continued discussions with MARCO about possible regional approaches to prevent or remove marine debris.
2. Cigarette litter prevention campaign designed to reach resort visitors: CVW, with several partners in VA Beach & 20+ hotels conducted a second year of pilot research funded partly by a Keep America Beautiful Cigarette Litter Prevention grant. The project is designed to reach hotel guests and day visitors to the beach. Cigarette butts are cited in the VMGRP as being of high concern. There are plans underway to further test this program in other communities, for example beach cottage rental areas.
3. Further discussions were held during this period with stormwater managers regarding their concerns with "floatable" pollutants including litter and polystyrene pellets from construction sites. Planning for a webinar to be held in Spring 2017 is underway.
4. Building capacity: planning is underway for an "Introduction to Social Marketing" workshop to be held June 5-6, 2017 to build the capacity to conduct research & implement campaigns to promote positive environmental attitudes and behaviors and also increase voluntary compliance with anti-litter laws. The workshop will be taught by Dr. Doug McKenzie-Mohr. The workshop is being funded partly by this grant, partly by FY16 Task 94.03, and partly by a modest registration fee to cover meals. Representatives from MARCO states, NOAA Marine Debris Program, Ocean Conservancy, and other partners will be invited to attend the workshop and/or a 90-minute executive summary that will be offered on the morning of June 6.

**Product #2. Balloon Release Reduction Campaign: Evaluation & Supplies.** This product is shared between the NOAA Marine Debris Program grant and NOAA/Virginia CZM Program FY15 grant to CVW. Findings from our first critical stage in designing a social marketing campaign were summarized, and presented by Katie Register (CVW), Virginia Witmer (CZM) and Steve Raabe (OpinionWorks) to all interested partners, including NOAA Marine Debris Program staff, in a webinar that was offered on June 6, 2016. The webinar can be viewed: <https://drive.google.com/file/d/0B95MAcp2XlsmblRXTjZlb3BGYkE/view>. Katie Register spoke about this project during an interview for Capitol Hill Ocean Week 2016 (CHOW), a webinar for Booz Allen Hamilton employees, and three civic groups. Christina Trapani, one of the contractors contributing research on this project, spoke about this research to more than five government agencies and NGOs in VA Beach.

**Product #3. Balloon Debris Monitoring.** This product supports the NOAA Marine Debris Program grant. Researchers Christina Trapani and Kathy O'Hara (sub-contracted by CVW to conduct monitoring of balloon litter on barrier islands) and others (including Laura McKay, CZM) monitored False Cape, Hog Island and Fisherman Island. They recorded 541 incidences of balloons that included 628 balloons (latex and foil), 68 ribbons that likely had been attached to balloons, and three weather balloons.

**Product #4. Second Virginia Marine Debris Summit Report.** CVW and CZM staff wrote and submitted a report that summarized the 2nd VA Marine Debris Summit held March 7-9, 2016 at VIMS in Gloucester. The report included input from the 116 marine debris experts, state and local resource managers, and community educators who attended the Summit and its "Deep Dive" sessions.

**Product #5: Final Report for A Rising Concern: Reducing Balloon Releases and Debris through a Social Marketing Campaign.** This will be completed under the NOAA Marine Debris grant when the NOAA Marine Debris grant ends in September 2017.

Final Products	% Completion	Anticipated Completion Date
Product #1: Refinement and Implementation of Phase 2 of the VA Marine Debris Reduction Plan	85%	3-31-17
Product #2: Balloon Release Reduction Campaign: Evaluation & Supplies	10%	3-31-17
Product #3: Balloon Debris Monitoring Report	60%	3-31-17
Product #4: Second VA Marine Debris Summit Report	100%	
Product #5: Final Report for A Rising Concern: Reducing Balloon Releases and Debris through a Social Marketing Campaign	0%	9-30-17 (see above for explanation)