



Accomack–Northampton Coastal Resources Technical Assistance Program



Virginia Coastal Zone Management Program

Accomack-Northampton Planning District Commission

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Grant Year 2019 Task 41

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Fiscal Year 2019 Technical Assistance Annual Report

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Virginia Coastal Zone Management Program

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A-NPDC Staff – Jessica Steelman, Shannon Alexander, Clara Vaughn, Grayson Williams, Brenette Hinmon, Leslie Mason, Melissa Matthews, Sandy Taylor, and Elaine Meil.

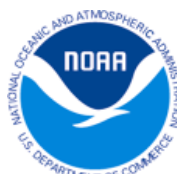
Virginia Coastal Zone Management Program – Laura McKay, Virginia Witmer, Shep Moon, April Bahen, Jefferson Flood, and Nick Meade

Commented [VP1]: Beth left the program in Feb 2018.

On the cover – Photograph taken by Shannon Alexander of the A-NPDC during the Eastern Shore Natives Campaign garden tour from the Willis Wharf observation platform. Willis Wharf is an active working waterfront area, public water access facility (with floating dock constructed by the A-NPDC with VCZMP funding), and the location for new interpretive panels (also a VCZMP project).



Virginia Coastal Zone
MANAGEMENT PROGRAM



This project was funded by the Virginia Coastal Zone Management Program at the Department of Environmental Quality through Grant #NA19NOS4190163 of the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, under the Coastal Zone Management Act of 1972, as amended.

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Introduction

The Accomack-Northampton Planning District Commission (A-NPDC) was formed in 1970 to provide planning and housing services on the Eastern Shore of Virginia. A-NPDC is a regional commission consisting of Accomack and Northampton Counties and the Town of Chincoteague. In addition to Chincoteague, the A-NPDC assists 18 incorporated towns on the Eastern Shore.

The Eastern Shore of Virginia is an approximately 70-mile long peninsula between the Atlantic Ocean and the Chesapeake Bay that has remained as one of the few remaining rural regions on the Atlantic seaboard. The region is unique for its vast wealth of coastal resources. The threats of development and constant changes to the region's dynamic coastal environment put the socio-economic, natural, and built environments on the Eastern Shore at risk. As result, A-NPDC has championed several efforts focusing on ensuring a sustainable future for local economies and the environment.

Executive Summary

During the Fiscal Year (FY), A-NPDC offered coastal management training opportunities for local government staff, and coordinated public education efforts, continued to staff the [Eastern Shore of Virginia Ground Water Committee](#) and the [Eastern Shore Regional Navigable Waterways Committee](#), provided GIS services, conducted state and federal environmental reviews, and worked with local governments and organizations to address coastal management issues. The A-NPDC's focal project for FY2019 was to offer coastal management training opportunities for local government staff, coordinate public education efforts, and continue to staff the Eastern Shore of Virginia Ground Water Committee. The Ground Water Committee, which has successfully managed the region's EPA-designated sole source aquifers since 1990, are working to ensure a productive and sustainable future for Eastern Shore residents and the natural environment. The A-NPDC worked with local government and nonprofit partners to develop an improper disposal of waste impact assessment, which can be used in education and outreach to ensure attention is given to this multipronged problem. Roadside litter and marine debris negatively impact the quality of life of human and animal inhabitants on the Shore and negatively impact the economy; better understanding the severity of the problem and its impact will allow for better management and development of solutions.

As part of the overall mission, the A-NPDC maintains a coastal program with the assistance and support of the Virginia Coastal Zone Management Program and the National Oceanic and Atmospheric Administration (NOAA). Despite in-person restrictions during the COVID-19 pandemic, the A-NPDC was able to reach over 200 people directly (prior to the pandemic) with 4 training and outreach events covering groundwater, coastal hazards and resiliency, land

use management, and more. Over \$800,000 in grant funds, local funds, staff and volunteer time were leveraged to aid the completion of multiple projects related to the goals presented in the scope of work for FY2019.

Products and Outcomes

The following sections describe the activities completed during FY2019 and their current and anticipated outcomes.

Coastal Management Training

The A-NPDC coordinated four training and outreach events during FY2019. While more events were intended, the restrictions put in place due to the COVID-19 pandemic effected the ability to host and attend such events. The events are summarized in the following sections. This task implements Executive Order 35, Goals 2, 6, 8, 9, and 10. Overall, we strive to not only provide educational and training opportunities and relevant reports, but also safe places to discuss vital issues on the Shore, including, but not limited to coastal access, cultural heritage, conservation and recreation, hazard mitigation and resiliency, tourism and economics, health and the outdoors, and collaboration and corroboration among existing entities on the Shore. The table below identifies specific events and includes existing and anticipated outcomes. The sign in sheets and similar materials for the educational and training activities are available upon request.

Table 1: Training and Outreach Events

Event Title	Date(s)	Outcomes
Positive Aquaculture PR Panel Discussion, Building Community to Avoid user Conflict - Virginia Aquaculture Conference	11/16/2019	Educated about 200 participants about ongoing projects and efforts towards reducing use conflicts for aquaculture growers. Open conversation among panelists and participants led to connections between individuals to meet to discuss further and improve their respective business practices.
Lead the Coast in Delmarva – interactive conference call/webinar	12/06/2019	Connecting adaptation planners across Delmarva with one another and with experts from Louisiana in order to incorporate lessons learned during the Louisiana Resilience Master Plan development into local and regional outreach and planning efforts.

<u>Event Title</u>	<u>Date(s)</u>	<u>Outcomes</u>
Shoreline Erosion – Accomack County Wetlands Board	12/19/2020	A-NPDC staff presented to 15 participants at the Accomack County Wetlands Board about shoreline erosion and the impacts it has on the Eastern Shore, along with leading a short Q&A on potential steps forward.
Resiliency Funding Opportunities – Climate Adaptation Working Group (CAWG) Workshop	01/22/2020	A-NPDC staff facilitated the CAWG workshop (30 participants) to explore resiliency funding opportunities. Guest speakers included Elizabeth Andrews, William & Mary VCPC, Rear Admiral Ann C. Phillips, Rear Admiral, US Navy (Ret.) and Special Assistant to the Governor for Coastal Adaptation and Protection, among others.

Technical Assistance

The A-NPDC provided technical assistance to local, state, and federal organizations on numerous occasions including environmental review, GIS, and information services during FY2019. Technical assistance activities are summarized in the following sections. This task implements Executive Order 35, Goals 1, 2, 4, 6, 9 and 10.

Partnerships

The A-NPDC partnered with over 20 government and NGO organizations during FY2019 to complete projects aimed to complete the Scope of Work. **Table 2** summarizes A-NPDC partnerships for FY2019. Activities with during the spring of 2020 were reduced due to the impacts of COVID-19.

Table 2: FY2019 Partnerships

ID	Agency/Group	Partnership Activity
1	34 Agencies, Governments, and NGOs	A-NPDC staff continued to facilitate the Eastern Shore CAWG under a collaboration with TNC, which brings together 34 partnering groups quarterly to address climate change and sea level rise in the region.
2	TNC, VESLT, DGIF, Ducks Unlimited, NWR, VDCR, & more	The Virginia Eastern Shore Conservation Alliance (VESCA), formerly known as the Southern Tip Partnership (STP), collaborates to ensure the effective conservation of lands on the Eastern Shore.
3	Accomack-Northampton Economic Development Committee	A-NPDC maintained the Regional Economic Development Plan, which includes an Economic Resilience chapter.

ID	Agency/Group	Partnership Activity
4	The Nature Conservancy	A-NPDC staff partnered with TNC to continue to promote the Eastern Shore of Virginia Coastal Resilience Tool and provide input on TNC's new website: https://exploreourseaside.org/
5	VDCR NHP, ESSWCD, Town of Onancock, Chincoteague, and Cape Charles	A-NPDC staff worked to coordinate potential opportunities to implement the Shore Big Trees Program. A-NPDC staff is working with locality staff to develop a program to provide home-owner assistance to siting, choosing, and sourcing their own native tree.
6	ESVA Environmental Education Council	A-NPDC staff served on the regional council to further environmental education efforts within the region.
7	Eastern Shore Watersheds Roundtable	A-NPDC staff served on the Steering Committee of the ESVA Watersheds Network. The network is a local watershed group that began meeting annually in 2001 to address pollution reduction strategies for ESVA watersheds through public education and outreach, data sharing, and research communication.
8	Eastern Shore Disaster Preparedness Coalition	A-NPDC staff followed and attended meetings as possible for this regional coalition focused on disaster preparedness and emergency management.
9	Eastern Shore Healthy Communities	A-NPDC staff coordinated with ESHC on their trails and potential linking to the Seaside Trail, etc.
10	VDCR	A-NPDC kept in touch with VDCR to provide updates on progress of the Virginia Water Trails effort and the Virginia Certified Ecotour Guide Course.
11	USGS	The Ground Water Committee continues to contract USGS to complete annual electromagnetic-Induction logging of all relevant regional wells to be used primarily to determine changes in salinity of our ground water.
12	VDWR	A-NPDC coordinated with local and state VDWR staff to organize for the installation of interpretive signage at the Queen Sound Boat ramp and in the content development for Bayside interpretive signage that focuses on nearby Natural Area Preserves. A-NPDC staff incorporated the DWR Birding and Wildlife Trails asset into the Virginia Water Trails asset, highlighting trails in the coastal region that are along the many water trails.
13	VDEQ & SERCAP	A-NPDC worked closely with VDEQ on groundwater resource concerns, Phase III WIP meetings, and in septic BMP implementation planning and implementation. Additional support from SERCAP was secured.
14	VDOT	A-NPDC worked closely with VDOT to manage the Sponsor-A-Road Pilot Program and met with VDOT contractor, VIMS, in order to contribute towards their 5-year project to incorporate resiliency into planning efforts.

ID	Agency/Group	Partnership Activity
15	Waste Watchers of the Eastern Shore	A-NPDC staff worked with this KAB Affiliate non-profit organization towards increasing recycling and reducing littering, and thus land-based marine debris, through various projects.
16	ESVA Regional Navigable Waterways Committee	A-NPDC staff worked with the Committee to develop applications for the Waterway Maintenance Fund, and presented to the Virginia Port Authority for dredging and beneficial use projects.
17	VA Department of Historic Resources	A-NPDC staff continue to work to incorporate FY18 recommended historic assets from VDHR in the water trail maps for each of the three rural coastal Virginia regions.
18	Wetlands Watch	A-NPDC served on the following workgroups, facilitated by Wetlands Watch: CRS, FEMA Acquisition, and Adaptive Land Management Strategies.

Leveraged Funds

The A-NPDC used NOAA/VCZMP grant funds to leverage services and complete projects aimed at improving coastal management on the Eastern Shore of Virginia. **Table 3** summarizes instances where NOAA/VCZM grant funds were leveraged during FY2019. Over \$800,000 was leveraged in FY2019 utilizing NOAA /VCZMP grant funds.

Table 3: FY2019 Leveraged Funds

ID	Group/ Event	Activity	FY2019 Amount
1	Arcadis	Eastern Shore Ground Water Committee funds used to support consulting hydrogeologist to the Eastern Shore Ground Water Committee.	\$21,000
2	Ground Water Committee	Eastern Shore of Virginia Ground Water Committee members' in-kind	\$10,151
3	Navigable Waterways Committee	ESVA Regional Navigable Waterway Committee members' in-kind	\$3,922
4	Accomack County	County staff posted positive antilitter campaign signage at local water access facilities. Staff coordinate with County staff and the Accomack County Solid Waste Committee to help with efficient outreach and management.	\$2,000
5	ESVA Climate Adaptation Working Group	VCZMP previous funding of CAWG fostered a relationship between A-NPDC and CAWG, leading to TNC funding of continued efforts for this regional group focused on developing adaptation and outreach strategies for improving	\$15,000

ID	Group/ Event	Activity	FY2019 Amount
		the Eastern Shore's ability to prepare and manage climate change and sea level rise.	
6	GreenWorks	GreenWorks local funding from the Counties, contribute towards proper waste management, litter reduction, and thus reduced marine debris.	\$8,501
7	VCZMP	The Virginia Oyster & Water Trail Eco-Tourism Collaboration will support and generate direct, indirect, and induced jobs – jobs that rely on the natural resources of the rural coastal areas - Year 3.	\$210,603
8	VDEQ and SERCAP Septic BMPs	Two unique contracts were secured with VDEQ to implement septic BMPs, pump outs, repairs, replacements, etc. These efforts were matched with funds from SERCAP to help residents most in need.	\$143,000
9	USGS	Electromagnetic Logging contract to monitor conductivity, and thus salt water intrusion at twelve wells regionally.	\$16,000
10	VPA	Dredging and beneficial use planning funds from the Virginia Waterway Maintenance Fund for Kings Creek and Quinby Channel.	\$385,000
11	VDH	Household Hazardous Waste Collection Facility regional program technical assistance and outreach/education supplemental material development for Accomack and Northampton Counties.	\$6,000
Total Leveraged Funds FY2019: \$821,177.00			

Information Requests

The A-NPDC responded to more than 20 information requests from private, local, state, and federal organizations and private citizens during FY2019. Some, but not all, of these requests are summarized in **Table 5**.

Table 4: FY2019 Information Requests

ID	Date	Agency/Group	Contact	Request Description
1	2/3/2020	Northampton Resident	Kathy Payne	Water Testing inquiry
2	2/3/2020	Arlington Plantation HOA	Michelle Cowling, Secretary HOA	Significant erosion (especially since Dorian), looking for loan/grant program
3	2/4/2020	John Hopkins University	Farangmeher Ghadiali (Farang)	Ches Bay Islands/SLR/CC
4	2/4/2020	Washington Post	Jim Morrison	Resilience & Retreat article

ID	Date	Agency/Group	Contact	Request Description
5	2/21/2020	Holy Trinity Church	Dave Vaughn	Grant funds for tree planting
6	2/27/2020	Town of Onley	Jayne Salazar	Comp Plan, CBPA compliance
7	2/27/2020	Arlington Plantation HOA	Michelle Cowling, Secretary HOA	Follow up; NFWF NCRF application development TA
8	3/3/2020	Parksley resident	Cara Burton	CBPA, Rue Gut
9	3/3/2020	Accomack County Planning Commission	Rich Morrison	AFID Planning Grant Assistance
10	4/27/2020	Accomack County Resident	Mary E.	Household hazardous waste questions
11	5/3/2020	Consultant/Contractor	Darryl Nixon	Resilience projects, specifically Saxis
12	6/10/2020	Christopher Newport University	Kathrine Whitmere	Watermen interviews re: Climate Change
13	7/10/2020	Chincoteague Bay Field Station	Sean Cornell & Adrienne Oakley	Stakeholder Group & Grant Application Development
14	8/1/2020	CBES	Sue Mastyl	Grocery store recycling of plastic bags
15	8/12/2020	Northampton County Planning Commission	Janet Sturgis	Working Waterfronts data, etc.

Ground Water Committee

The A-NPDC staffed the Eastern Shore of Virginia Ground Water Committee and managed the Ground Water Committee's consulting hydrogeologist during FY2019. Committee Officers elected for FY2019 were Mr. John Coker (Northampton County Supervisor) as Chairman and Mr. Paul Muhly (Accomack County Supervisor) as Vice Chairman.

Summary of Accomplishments

A-NPDC staff coordinated ground water compliance reviews with DEQ and sharing information regarding the USGS Hydrogeologic Framework and tTEM. A-NPDC staff also maintained and updated the [Ground Water Committee web site](#) (where all published materials and resources can be found), developed and distributed Water Quality Degradation During Times of Building Disuse flyers, and presented to the Master Gardeners course participants. During FY2019, the Ground Water Committee held only 4 meetings due to the COVID-19 pandemic, participated in the Eastern Shore Surficial Aquifer Regulatory Advisory Panel for

development of policy for a General Permit for groundwater withdrawal, commented on multiple regulatory actions, maintained the *Eastern Shore of Virginia Ground Water Supply Protection and Management Plan*, and reviewed multiple environmental reviews, poultry permits for groundwater withdrawal, and regulatory items.

The Ground Water Committee Report implements Executive Order 35, Goals 1, 2, 8, 9, and 10.

Packets and Minutes for the Monthly Meetings

The minutes present activities related statutory, regulatory, and permit tracking/review; research and investigation; and implementation of ground water protection. Minutes for the Committee meetings can be found on the [Ground Water Committee page](#) of the [A-NPDC web site](#). Many additional resources can be found on the site as well. The committee met on the third Tuesday of each month, October and November 2019, and February and June 2020.

Improper Disposal of Waste Impact Assessment

Roadside litter and marine debris take a toll on the wildlife and the economy on the Eastern Shore. From increased risk of mosquito-borne illness, increased stormwater flooding, and negative impacts to property value to the negative impacts to aquaculture and commercial fisheries once land-based litter becomes marine debris, this problem is highly misunderstood. The intent is to have the annual Keep America Beautiful Litter Survey results, the Sponsor-A-Road Pilot Program areas, active VDOT Adopt-A-Highway Program road segments, VDOT mowing contract covered routes (those that include litter pick up), and the data from Accomack and Northampton (as available) Counties tracking probationer and litter truck efforts all compiled into a [map resource](#) that is easily accessible and will reveal service and data gaps. Having all of this information in one map can help show where attention is needed and help with more strategic planning on all fronts. As more information is released, staff intends to update the report and map product, using the GreenWorks funding mechanism.

Efforts on the ground with the GreenWorks Committee, the A-NPDC collaboration with Waste Watchers of the Eastern Shore of Virginia – A Keep America Beautiful Affiliate, helped to have successful clean up events (prior to the pandemic) on the Eastern Shore through the supply of gloves, bags, vests, buckets, signage, awards for the youth that win the annual essay contest, transportation for the annual litter survey, and management of the Sponsor-A-Road Pilot Program. These efforts have continued and are included in the [Eastern Shore of Virginia Litter Impact Assessment](#) (Product #2).

To many the thought is that this is simply a NIMBY (not in my back yard) aesthetic issue. Presenting an assessment of the larger impacts of the problem will help to ensure that local resources are allocated appropriately to tackle this issue. This report will complement the

efforts of our GreenWorks Committee and the final product be presented to the Accomack County Solid Waste Committee and the Northampton County Department of Public Works. A one-page summary fact sheet will be created for public use with follow up education and outreach to the FY18 Virginia Department of Health Wellhead Protection Implementation Grant that established a Regional Household Hazardous Waste Collection Facility in calendar year 2019. This task implements Executive Order 35 Goals 1, 8, 9, and 10.

GreenWorks Committee Report

The GreenWorks Committee was established via a memorandum of understanding between the A-NPDC and the Waste Watchers of the Eastern Shore, the region's Keep America Beautiful Affiliate. The A-NPDC manages county funds allocated for specific direct litter collection tasks, annual Committee work plan educational goals, and providing technical assistance. The two main pillars of focus are increasing recycling and decreasing littering. Particularly on the Eastern Shore, all land-based litter becomes marine debris in our seaside bays or the Chesapeake Bay and its tributary creeks. This collaboration leads to improved outreach and education by the counties, Commission, schools, and local nonprofits, ultimately reducing marine debris. This task implements Executive Order 35 Goals 1, 2, 4, 6, 9, and 10.

The GreenWorks Committee meets twice annually, however due to COVID-19, the Committee only met once this grant year; meeting agenda and minutes can be found [here](#). During this grant year, the GreenWorks Committee collaborated with the Accomack County Department of Public Works, Accomack County Solid Waste Committee, and Northampton County staff to develop and distribute brochures for the [Household Hazardous Waste Collection \(HHWC\) Facility](#). The GreenWorks Committee also provided outdoor brochure holders to both counties to install at convenience centers so that HHWC brochures are easily accessible to the public. Additionally, GreenWorks funds were used toward the purchase of a new building for the HHWC Facility to enable safer work conditions and all-season operation. GreenWorks Committee staff developed a 1-page flyer (in English and in Spanish) of all the convenience centers on the Eastern Shore, highlighting addresses, hours, accepted materials, and a map. Lastly, GreenWorks Committee staff coordinated with staff at the Virginia Aquarium and Marine Science Center to provide education on the Keep It Beachy Clean campaign and distribute campaign materials (including large stickers for public access site trash barrels.)

Benefits Accrued from Prior VCZMP Grants

Below is a table naming and describing A-NPDC projects funded by VCZMP in previous years. The table highlights the projects that have produced measurable benefits in subsequent years and/or have served as a foundation for additional projects. Information

about each TA Program Grant year, from FY2002 to present, can be found on the A-NPDC web site at the following address: <http://www.a-npdc.org/accomack-northampton-planning-district-commission/coastal-resources/technical-assistance-program/>

Table 5: VCZMP Benefits Accrued

<u>VCZM Grant #</u>	<u>NOAA Grant #</u>	<u>Project Title</u>	<u>Description of Benefits Accrued</u>
FY2002, Task 12.09	NA17OZ2355-01	Seaside Heritage Program: Ecotourism Access Improvements	Two floating docks were constructed in Chincoteague and Wachapreague resulting in enhanced access for paddlers. This infrastructure has been critical for the Seaside Water Trail and Camping Accommodation Implementation Plan
FY2003, Task 12.11	NA03NOS4190104	Seaside Heritage Program: Ecotourism Access Improvements	One floating dock was constructed in Willis Wharf resulting in enhanced access for paddlers. The infrastructure has been critical for the Seaside Water Trail and Camping Accommodation Implementation Plan
FY2004, Task 11.10	NA04NOS4190060	Seaside Heritage Program: Ecotourism Access Improvements	Supplies purchased for the Willis Wharf Observation Deck led to construction using VCZM funds in FY05. The project also funded the construction of a floating dock in Quinby resulting in enhanced access for paddlers. This infrastructure has been critical for the Seaside Water Trail and Camping Accommodation Implementation Plan
FY2004, Task 83.06	NA04NOS4190060	Chesapeake Bay Buffer Land Classification Project	Project outcomes were built upon during FY06 TA Grant. Is regularly used for land use decisions by localities and available on Coastal GEMS
FY2004, Task 41	NA04NOS4190060	A-NPDC Technical Assistance Program	The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2005, Task 41	NA05NOS4191180	A-NPDC Technical Assistance Program	The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2006, Task 41	NA06NOS4190241	A-NPDC Technical Assistance Program	The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.

<u>VCZM Grant #</u>	<u>NOAA Grant #</u>	<u>Project Title</u>	<u>Description of Benefits Accrued</u>
FY2007, Task 41	NA07NOS4190178	A-NPDC Technical Assistance Program	The Seaside Water Trail Historic Resources Project has leveraged additional VCZM Grants associated with the trail.
FY2008, Task 14	NA08NOS4190466	Wachapreague Seaside Park Plant ES Natives Demonstration Garden	A sub-program for Plant ES Natives, called Shore Big Trees, was established and a native tree was leveraged in the Wachapreague.
FY2008, Task 41	NA08NOS4190466	A-NPDC Technical Assistance Program	The Chincoteague Tour Training Guide was leveraged into additional work during TA Program grants in subsequent years. The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2009, Task 41	NA08NOS4190163	A-NPDC Technical Assistance Program	The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2010, Task 41	NA10NOS4190205	A-NPDC Technical Assistance Program	The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2010, Task 41	NA10NOS4190205	A-NPDC Technical Assistance Program	The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2010, Task 96.01	NA10NOS4190205	Seaside SAMP Phase 3 Technical Assistance	This project led to additional VCZM grants related to assessing Recreational & Commercial uses on the Seaside to enhance coastal management. The work also led to VCZM funding for the establishment of restoration goals for SAV on the Seaside.
FY2011, Task 41	NA11NOS4190122	A-NPDC Technical Assistance Program	The Boating and Marina Needs Enhancement Assessment was leveraged into subsequent VCZM grants related to Working Waterfronts
FY2011, Task 96	NA11NOS4190122	Seaside SAMP Recreational Use Assessment and SAV Restoration Goals	This work was leveraged into subsequent VCZM funding for an assessment of commercial use and exploration of state-policy for establishment of SAV restoration set-aside areas for Seaside.

<u>VCZM Grant #</u>	<u>NOAA Grant #</u>	<u>Project Title</u>	<u>Description of Benefits Accrued</u>
FY2012, Task 41	NA12NOS4190168	A-NPDC Technical Assistance Program	The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2012, Task 96	NA12NOS4190168	Seaside SAMP Recreational & Commercial Use Assessment and SAV Restoration Goals	The Commercial Fishing Use Assessment was leveraged into additional planning work funded by BOEM and VDMME regarding commercial and recreational fishing activities within the Virginia Wind Energy Area
FY2012, Task 51	NA12NOS4190168	Eastern Shore Water Trails Association Development & Seaside Water Trail Camping Accommodation Implementation Plan	No work leveraged from grant to date.
FY2013, Task 41	NA13NOS4190135	A-NPDC Technical Assistance Program	The Proceedings of the Eastern Shore Land Protection Working Group Report identified additional economic impact studies needed in the region. The work has been leveraged for FY15 through a VCZMP grant. The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2013, Task 53	NA13NOS4190135	Eastern Shore Transportation Infrastructure Inundation Vulnerability Assessment	The report has been regularly utilized to leverage and enhance federal and state transportation funding applications. The report is being used in the Coastal Resilience Tool.
FY2014, Task 41	NA14NOS4190141	A-NPDC Technical Assistance Program	The special project, Shore Big Trees Implementation Plan, has led to native tree plantings in local communities. The ES Ground Water Committee leveraged work from this year's grant to complete additional and ongoing tasks during the subsequent year's grant.
FY2015, Task 41	NA15NOS4190164	A-NPDC Technical Assistance Program	The Coastal Resilience collaboration is serving as a major data resource for the EFC resilience finance strategy and planning development project.

<u>VCZM Grant #</u>	<u>NOAA Grant #</u>	<u>Project Title</u>	<u>Description of Benefits Accrued</u>
FY2015, Task 41	NA15NOS4190164	A-NPDC Technical Assistance Program	The special project, Regional Dredging Needs Assessment, is leading to a Section 22 initiative with the U.S. Army Corps of Engineers, in collaboration with the Eastern Shore Regional Navigable Waterways Committee.
FY2016, Task 41	NA16NOS4190171	A-NPDC Technical Assistance Program	The special project, Chincoteague historic Walking & Biking Brochure, has been updated and reprinted by the COC during FY2018 and is anticipated to continue to be managed by the Town entities and help drive business and raise visitor awareness.
FY2017, Task 41	NA17NOS4190152	A-NPDC Technical Assistance Program	The A-NPDC's focal project was to develop draft operating documents for the establishment of the Eastern Shore Water Access Authority (ESWAA) as authorized by the Virginia General Assembly (VA GA) in 2014, present to the local jurisdictions, and report on the level of success of adoption.
FY2018, Task 41	NA18NOS4190152	A-NPDC Technical Assistance Program	The A-NPDC's focal project was to establish and staff the Eastern Shore Water Access Authority (ESWAA), however, local counties chose not to create the Authority. Staff continues to provide technical support with regards to public access and resilient management of coastal access properties and potential properties.
FY2019, Task 41	NA19NOS4190163	A-NPDC Technical Assistance Program	The A-NPDC's focal project was to offer coastal management training opportunities for local government staff, coordinate public education efforts, and continue to staff the Eastern Shore of Virginia Ground Water Committee. The Ground Water Committee, which has successfully managed the region's EPA-designated sole source aquifers since 1990, are working to ensure a productive and sustainable future for Eastern Shore residents and the natural environment. The A-NPDC worked with local government and nonprofit partners to develop an improper disposal of waste impact assessment, which can be used in education and outreach to insure attention is given to this multipronged problem.

<u>VCZM Grant #</u>	<u>NOAA Grant #</u>	<u>Project Title</u>	<u>Description of Benefits Accrued</u>
FY2017, Task 73.02	NA17NOS4190152	New Eastern Shore Kiosks: Atlantic Coast and Bayside Interpretive Signage	Replacing the interpretive panels installed with VCZMP NOAA funding over a decade previous, this project will be completed in collaboration with TNC, local experts, and locality staff.
FY2017, Task 72	NA17NOS4190152	Virginia Oyster & Water Trail Eco-Tourism Collaboration – Year 1	Based on FY2013 efforts of a different VCZMP grantee and connections made over the years of implementing the TA Program, this project is a three-region collaboration
FY2018, Task 72	NA18NOS4190152	Virginia Oyster & Water Trail Eco-Tourism Collaboration – Year 2	Part of a three-year effort, this project developed similarly designed and presented assets across the Eastern Shore, Middle Peninsula, and Northern Neck.
FY2019, Task 72	NA19NOS4190163	Virginia Oyster & Water Trail Eco-Tourism Collaboration – Year 3	Part of a three-year effort, this project continued to build on the efforts of the previous two years in developing similarly designed and presented assets across the Eastern Shore, Middle Peninsula, and Northern Neck.
FY2018, Task 93.06	NA18NOS4190152	Working Waterfronts Rural Coastal Enhancement Authority	Working with our Middle Peninsula partners, this effort convened the RCVCEA Summit.
FY2018, Task 93.05	NA18NOS4190152	Rural Chesapeake Bay/Seaside of Virginia WWF Master Plan Implementation	Working with both the Middle Peninsula and the Northern Neck, this project developed outreach materials (video and StoryMaps) for working waterfronts.