A-NPDC Technical Assistance Program & Coastal Resiliency Planning

NOAA Grant: NA20NOS4190207 Grant Year 2020, Task 41



Virginia Coastal Zone Management Program

Accomack-Northampton Planning District Commission

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Fiscal Year 2020 Technical Assistance Annual Report

November, 2021

Prepared For:

Virginia Coastal Zone Management Program

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Acknowledgements

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A-NPDC Staff – Jessica Steelman, 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.

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).





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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, viable, and prosperous 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, 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 FY2020 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 aguifers 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 facilitate a native garden clean-up. Native plants offer protection for our local water supply and wildlife, yet the Native Gardens are not being maintained and taken care of. These native plants are often more resistant to insects and disease, requiring less to no fertilizing, which results in less to no run off or leaching; their need for less watering means conserving potable water supplies. These native plants are resistant to occasional salt-water stress and provide critical habitats and food for migratory birds and butterflies. Overall, these Native Gardens play a key role in preserving diversity, beauty, and function of the Eastern Shore's natural ecosystems.

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 some on-going COVID-19 restrictions, the A-NPDC was able to reach over 200 people with 6 training and outreach

events covering groundwater, coastal hazards and resiliency, land use management, and more. Over \$2 Million 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 FY2020.

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 FY2020. 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.

Table 1: Training and Outreach Events

Event Title	Date(s)	Outcomes		
Discover EE Information Share	12/18/2020	Staff shared outreach education materials virtually; materials were developed and provided by TNC, VESLT, & Virginia Coast Reserve LTER		
Groundwater use on the Eastern Shore	12/2020	Staff educated and shared resources with the EDC on groundwater use, hydrogeologic framework, and USGS model.		
National Association for Interpreters	2/25/2021	A-NPDC staff presented during the National Association for Interpreters (NAI) Region 2 Conference on the local and regional benefits of the Virginia Water Trails assets.		
BMP Warehouse Use Training	4/6/2021	Staff provided training on how to utilize the DEQ BMP Warehouse; this included entering data into the template, identifying HU6 zones, and submitting data to the warehouse.		
River Management Society	4/15/2021	A-NPDC staff presented during the River Management Society (RMS) Symposium on the benefits of collaborative projects.		

Event Title	Date(s)	Outcomes
RAFT Virtual Workshop	4/23/2021	A-NPDC staff presented and participated in the RAFT Virtual Workshop Update.
ESVA Business Resiliency Training	5/18- 5/19/2021	Staff facilitated and provided a training on how businesses can assess their resiliency in the face of natural and man-made hazards; guest speakers also included Chambers of Commerce to address changes since COVID-19 and how tourism relates to resiliency; hazard mitigation; and economic development in the face of adversity.
Coastal PDC Meeting	6/4/2021	Staff hosted the Summer Coastal PDC Meeting in Cape Charles, VA. The Cape Charles NAP was toured, identifying challenges the NAP is facing with nearby development; past CZM resiliency projects were toured (i.e. dunes at the Cape Charles Beach and accompanying signage); and working waterfronts were visited for first-hand experience of their success and contribution to the local economy and ecotourism.

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 FY2020. 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 15 government and NGO organizations during FY2020 to complete projects aimed to complete the Scope of Work. **Table 2** summarizes A-NPDC partnerships for FY2020. In-person activities continued to be reduced due to the impacts of COVID-19.

Table 2: FY2020 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.

ID	Agency/Group	Partnership Activity		
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. A-NPDC staff also managed the development of the CEDS Plan update and facilitation of the A-N EDC.		
4	ESVA Environmental Education Council	A-NPDC staff served on the regional council to further environmental education efforts within the region.		
5	Eastern Shore Rail Trail Work Group	A-NPDC staff coordinated with the ES Rail Trail Work Group on the continued development of the bike and hike trail along the railway corridor.		
6	VDCR A-NPDC kept in touch with VDCR to provide upon progress of the Virginia Water Trails effort a Virginia Certified Ecotour Guide Course.			
7	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.		
8	VDWR	A-NPDC coordinated with local and state VDWR staff to organize for the installation of interpretive signage Red Bank Public Access boat ramp. A-NPDC staff updated DWR name and website URLs for the Birding and Wildlife Trails asset included in the Virginia Water Trails asset, highlighting trails in the coastal region that are along the many water trails.		
9	VDEQ & SERCAP	A-NPDC worked closely with VDEQ on groundwater resource concerns, Phase III WIP meetings, and in septic BMP planning and implementation. Additional support from SERCAP continued.		
15	A-NPDC staff worked with this KAB Affiliate no			
16	ESVA Regional Navigable Waterways Committee			

ID	Agency/Group	Partnership Activity		
		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: Adaptive Land Management Strategies and provide projects to include in the Wetlands Watch Project Database with CZM.		

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 FY2020. Over \$2 Million was leveraged in FY2020 utilizing NOAA /VCZMP grant funds.

Table 3: FY2020 Leveraged Funds

ID	Group/ Event	Activity	FY2020 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	GreenWorks	GreenWorks local funding from the Counties, contribute towards proper waste management, litter reduction, and thus reduced marine debris.	\$8,501
5	VCZMP	The Virginia Oyster & Water Trail Eco-Tourism Collaboration will support and generate direct, indirect,	

ID	Group/ Event	Activity	FY2020	
	Group, Event	receivity	Amount	
		and induced jobs – jobs that rely on the natural resources of the rural coastal areas.		
6	VDEQ and SERCAP Septic BMPs	Two unique contracts with VDEQ continued 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	
7	Electromagnetic Logging contract to monitor			
Dredging and beneficial use planning funds from the Virginia Waterway Maintenance Fund for Folly Creek, Wachapreague Channel, Hungars Creek, Nassawadox Creek, & Red Bank Channel				
Total Leveraged Funds FY2020: \$2,220,976,00				

Total Leveraged Funds FY2020: \$2,220,976.00

Information Requests

The A-NPDC responded to more than 35 information requests from private, local, state, and federal organizations and private citizens during FY2020. These requests are summarized in **Table 4**.

Table 4: FY2020 Information Requests

ID	Date	Agency/Group	Contact	Request Description
	10/16/202	AcCo Planning		
1	0	Commission	Jim Crunk	Groundwater Resources
	10/20/202	NoCo Planning		Groundwater Preservation Plan &
2	0	Commission	Janet Sturgis	WWF Master Plan
	11/16/202			Christmas Tree Recycling on the
3	0	ESSWCD	Julie Head	ESVA
	11/18/202	Resident		
4	0	(County?)	Tim Getek	Water Testing Agencies
		University of		
		Pittsburgh,		
		Johnstown &		
		Indiana University	Mitzy & Chris	
5	12/2/2020	of Pennsylvania	Schaney	Intern Research Project Opps

ID	Date	Agency/Group	Contact	Request Description
		Resident	Elizabeth	Recognition of Quinby public
6	12/6/2020	(County?)	Pinder	access being fixed
	12/10/202			Groundwater
7	0	DEQ	Scott Kudlas	reports/presentations
		Kutztown		
		University &	Adrienne	
	12/10/202	Shippensburg	Oakley & Sean	
8	0	University	Cornell	Provided internship opportunities
	12/15/202			
9	0	EDC		Groundwater supply and use
	12/16/202			
10	0	ESRNWC		Perdue Draft Permit
		Cape Charles		
		Town Council &		
	12/23/202	Planning		
11	0	Commission	Paul Grossman	Groundwater info request
		Advocate for		
12	1/12/2021	Saxis	Darryl Nixon	Living Breakwater Diamonds
				TA for grant funding for new
13	1/27/2021	AcCo Resident	Chris Cadena	aquaculture business
		Worcester		
		County, MD		TA for grant seeking and
		Resident & VCEG		developing a similar asset to VWT
14	2/1/2021	Participant	Laura Scharle	for Maryland's Eastern Shore
15	2/18/2021	Ecotour Guide	Suzanne Moss	Recertification Process
			Dixon	
16	3/4/2021	NoCo Resident	Leatherbury	Contact information for J.Joeckel
				\$250k budget seed money for
17	3/14/2021	AcCo Resident	Jean Steelman	Children's Harbor
18	3/15/2021	AcCo Resident	Bill McCarter	Rail to Trail; connecting Onancock
		Kutztown	Adrienne	
19	3/22/2021	University	Oakley	Paid internship opps
				PDC input on documentary that is
20	3/31/2021	H2O Project	Clelia Sheppard	being created
21	4/2/2021	NoCo Resident	Damion Geist	TA for establishing a 501(c)3

ID	Date	Agency/Group	Contact	Request Description
22	4/19/2021	Kutztown University & Shippensburg University	Adrienne Oakley & Sean Cornell	TA for contact to gain permissions for project in Saxis
23	5/13/2021	Institute for Coastal Adaptation & Resilience, ODU	Carol Considine	Invitation to serve on the Coastal Virginia Consortium Steering Committee
24	5/18/2021	ESGWC	Paul Muhly	Appointment of PDC Staff to the EVGMAC
25	5/19/2021	Virginia Coast Reserve LTER	Cora Baird	Invitation to serve on the Eastern Shore Climate Equity Atlas Advisory Committee
26	5/21/2021	University of Pittsburgh, Johnstown & Indiana University of Pennsylvania	Chris & Mitzy Schaney	Present research project being conducted in Saxis
27	5/25/2021	Tyson	Sarah Harrison	Request for Litter Pick Up Temp Permits
28	5/27/2021	DCR	Aaron Wendt	Inquiry for continued support for awarded NFWF INSR project in Coastal VA to observe and expand living shorelines
29	6/2/2021	AcCo Resident	Elizabeth Omps	Inquiry for Special Olympics Recycling Bin
30	6/23/2021	ESCC	Scott Hall	Request for DCR contact info
31	7/2/2021	Chincoteague COC	Joanne Moore	Request for brochure creative files
32	7/12/2021	ESCC	Scott hall	Request for census data on household income distribution
33	8/2/2021	NoCo Resident	Ken Dufty	Request for USGS contact re: Randy McFarland Paleochannel report
34	8/9/2021	Resident (County?)	Chris Leitch	Request for information on how to dispose of gasoline
35	8/11/2021	Accawmacke Indian	Cynthia Manley	Request for assistance identifying funding for tribal recognition

ID	Date	Agency/Group	Contact	Request Description
				Request for VWT on ES to go out
36	8/16/2021	Virginia Green	Tom Griffin	on
				Request for assistance on HMA
37	8/18/2021	AcCo Staff	Sarah Dickey	grant survey
			Hayley	
		Silver Beach	Mathews &	Request for funding for living
38	8/27/2021	Resident	Barry Shpil	shoreline project
				Request for information on
		Cape Charles		upcoming DCR Community
39	9/16/2021	Planner	Katie Nunez	Meeting in October
		Earth Systems		Request for info on 2017 EM Logging
40	9/22/2021	Management, LLC	Joseph Betit	Results

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 FY2020. Committee Officers elected for FY2020 were as Mr. Paul Muhly (Accomack County Supervisor) Chairman and Mr. John Coker (Northampton County Supervisor) as Vice Chairman.

Summary of Accomplishments

A-NPDC staff coordinated ground water compliance reviews with DEQ and sharing information regarding the USGS Electromagnetic Logging. A-NPDC staff also maintained and updated the Ground Water Committee web site (where all published materials and resources can be found). During FY2020, the Ground Water Committee held 7 meetings, continued to provide review input on the General Permit for Use of Surficial Aquifer on the Eastern Shore (9 VAC 25-910) documents 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, developed a draft Ground Water Committee Statement of Principle, and reviewed multiple environmental reviews, poultry permits for groundwater withdrawal, and regulatory items. The Ground Water Committee prioritized study and project needs for the sole source aquifer on the Eastern Shore of Virginia; identifying responsible party and potential level of cost to complete the study or project. The Committee hydrologist is working with USGS to further identify and address Committee concerns as USGS updates the Eastern Shore Groundwater Model. The Ground Water 2019 and 2020 Awards were announced and sent to the winners - Scott Kudlas of DEQ and his team for their efforts on the Eastern Shore Surficial Aquifer

General Permit RAP. 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 <u>Ground Water Committee page</u> of the <u>A-NPDC web site</u>. Many additional resources can be found on the site as well. The committee met on the third Tuesday of each month, October 2020, February, March, April, May, July, and September 2021.

Eastern Shore Native Garden Revitalization

Native plants offer protection for our local water supply and wildlife, yet the Native Gardens are not being maintained and taken care of. These native plants are often more resistant to insects and disease, requiring less to no fertilizing, which results in less to no run off or leaching; their need for less watering means conserving potable water supplies. These native plants are resistant to occasional salt-water stress and provide critical habitats and food for migratory birds, butterflies, and other pollinators. Overall, these Native Gardens play a key role in preserving diversity, beauty, and function of the Eastern Shore's natural ecosystems.

There are many native gardens on the Eastern Shore, including six in Accomack County and three in Northampton County. Many of these native gardens are in desperate need of revitalization and maintenance in order to perpetuate their many benefits for our wildlife, environment, water, and community as a whole. In an effort to sustain the Eastern Shore Native Gardens, one garden in need of revitalization will be selected. The A-NPDC worked with nonprofit partners Historic Onancock School and Master Gardeners to facilitate a native garden clean-up and preparation of site for future planting. Due to unforeseen infrastructure obstacles, the planting of the native garden was unable to be completed. However, an old native garden that had been overtaken by invasive vines and weeds was rehabilitated and prepared for future planting of a native garden. Intentions to replant the native garden once the infrastructure for watering is in place have been discussed by the nonprofit partners and the A-NPDC staff. This task implements Executive Order Goals 1, 2, 4, and 6.



Above: Before picture of overrun native garden

Right: After picture of rehabilitated and prepared native garden.



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; meeting 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 complete development of and distribute flyers for the Eastern Shore Convenience Centers. GreenWorks Committee staff coordinated with Accomack County Department of Public Works to inventory public access sites with and without trash barrels. The GreenWorks Committee staff planned and facilitated a town-wide cleanup in Exmore, VA for Clean the Bay Day in honor of the Great American Cleanup; the event was featured in the Eastern Shore Post on page 38.

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

Table 5. VCZIVIF Deficits Accided			
VCZM Grant #	NOAA Grant #	Project Title	Description of Benefits Accrued
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 enhance 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.

VCZM Grant #	NOAA Grant #	Project Title	Description of Benefits Accrued
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.
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.

VCZM Grant #	NOAA Grant #	Project Title	Description of Benefits Accrued
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.
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

VCZM Grant #	NOAA Grant #	Project Title	Description of Benefits Accrued
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.

VCZM Grant #	NOAA Grant #	Project Title	Description of Benefits Accrued
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.
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.

VCZM Grant #	NOAA Grant #	Project Title	Description of Benefits Accrued
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.

VCZM Grant #	NOAA Grant #	Project Title	Description of Benefits Accrued
FY2020, Task 41	NA19NOS4190207	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 rehabilitate a native garden and prepare the site for future planting.
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.

VCZM Grant #	NOAA Grant #	Project Title	Description of Benefits Accrued
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.
FY2020, Task 72	NA19NOS4190207	Promoting Ecotourism to Support Conservation of Conserved Lands and Resilient Communities – Year 1 (Continuation of Virginia Oyster & Water Trail Eco- Tourism Collaboration)	Part of a new three-year effort, this project continued to build on the efforts of the previous three years in developing similarly designed and presented assets across the Eastern Shore, Middle Peninsula, and Northern Neck with a focus on resiliency through ecotourism.
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.

Regional Resiliency Coordination

The Accomack-Northampton Planning District Commission plays a critical role by providing technical assistance and coordination to their local governments, while also serving as liaisons to state and federal agencies in charge of developing new policies and

regulations. In the realm of resiliency planning, we have done this through the Climate Adaptation Working Group (CAWG), which we have organized with partners since 2013. Following the conclusion of the TNC-lead, NFWF-funded Coastal Resilience project and then The Resilience Adaptation Feasibility Tool (The RAFT), the PDC planned a strategic retreat in the spring of 2020 to guide the collaborative group so that it could adapt to meet the emerging needs of the communities on the Eastern Shore of Virginia. The A-NPDC continued to lead this reinvigorated regional resiliency stakeholder group and conducted two (2) stakeholder meetings this project year. The first meeting, held on January 12, 2021 (virtually) brought together a large group of stakeholders across the region to identify coastal resiliency needs and projects (all levels from proposed to in progress to near completion). CAWG partners worked to develop a living comprehensive Coastal Resiliency Projects Database from stakeholder contributions; found here. This database guided projects that would later be submitted for the Virginia Coastal Resource Master Plan (CRMP). The second meeting, held on July 28, 2022 at the Brownsville Preserve focused largely on educating stakeholders on the Community Flood Preparedness Fund, identifying localities in need of resilience plans, and locality interest in applying for funds with assistance from the CAWG. Agendas and meeting notes can be found here. This task implements Executive Order Goals 8, 9, and 10.

Regional Resiliency Priorities

The A-NPDC work with the CAWG to identify regional resiliency needs, such as data gaps, local capacity, etc., establish regional resilience priorities (such as identifying areas to protect/relocate/adapt, natural resource protection, planning for migration of flora and fauna, etc.), and develop a list of projects – ultimately resulting in the <u>Coastal Resiliency Projects Database</u>. The A-NPDC provided technical assistance to localities as needed/able. This included providing guidance to the town of Keller for preparing an application to the Community Flood Preparedness Fund. This task implements Executive Order Goals 8-10.

CZM Resilience Database Support

The A-NPDC worked with CZM resilience database team by providing feedback on structure, usability, procedures, etc. and by providing a list of 84 regional projects and data on those projects to be included in the CZM/Wetlands Watch Resilience Database. The A-NDPC coordinated on recommendations on database structure and procedures, providing feedback to CZM during the Summer Coastal PDC Meeting, hosted by the A-NPDC June 4, 2021. A-NPDC staff input projects, as guided by the CAWG, when the database was finalized. This task implements Executive Order Goals 8, 9, and 10.

Virginia Coastal Resilience Master Plan

The A-NPDC will participated in the development of master plan by attending Technical Advisory Committee meetings and providing information to state entities, as requested. The A-NPDC hosted Rear Admiral Ann Phillips and her Dewberry Team for the regional charette on August 11, 2021 at the Eastern Shore Community College. Additionally, A-NPDC staff, with support from CAWG partner TNC, input 84 coastal resiliency projects in the data call for the CRMP. Throughout the CRMP process, A-NDPC staff remained in contact with Rear Admiral Phillips and her team, providing input for the CRMP and acting as liaison between this team and localities. This task implements Executive Order Goals 8, 9, and 10.

Kings Creek Maintenance and Beneficial Use Planning

Waterway Surveys & Engineering, Ltd. was procured to complete all planning, design, and permitting activities for an area of Kings Creek in Northampton County by the end of March, 2021. Although not all of these pre-implementation activities will be reported here, they are to include surveying, sediment sampling, site investigation, public and stakeholder engagement, full engineering design, permit application development and submittal, and development of the associated bid documents. A-NPDC staff organized and facilitated a public meeting with the engineering contractor to review site design and beneficial use of the dredged material plan at 100% completion. The project includes plans, design, and permitting for the beneficial use of any dredged materials in the surrounding area, ideally either Cape Charles public beach to the south, or Cherrystone Family Campground Resort to the north. The plan and design will depend upon the quality and quantity of the material to be dredged. Maintaining navigability of our waterways, particularly in an economically vital are such as this, is imperative to economic resiliency and benefits working waterfronts along the Creek. Beneficial use of the material is meant to both enhance habitat for plants and wildlife and increase resiliency of properties behind and adjacent to the project area. This project is funded by the Virginia Waterway Management Fund, as managed by the Virginia Port Authority. The portion of the project being reported on here includes: part of the dredged material management planning, the joint permit preparation and submittal, and the design and construction documents for bidding for full project implementation in a future year.

Kings Creek serves as the north boundary of the Town of Cape Charles. Located about 1-mile north of Cape Charles Harbor and east of Sandy Island, this Northampton County bayside creek has depths of 3.5 feet for 1 mile upstream. The shoal that extends out from the north side of the entrance bares at low water; a light marks the entrance. The creek is

used extensively by fishermen and pleasure craft. Gasoline, diesel fuel, berths, and marine supplies are available at a marina just inside the entrance.

According to the survey, completed by Waterway Surveys and Engineering, work will be done from station 13+46.26 to 77+00 for a total area of 516,340 square feet (sf) or 11.85 acres. The channel depth has been designed at -7 ft MLW with a 1 ft allowable over depth for a total permitted depth of -8 ft MLW. Approximately 28,025 cubic yards (cy) of sandy material from the channel will be placed on the Cape Charles public beach as a beneficial use project. This includes two small areas of new work dredging to improve the channel. First is to widen between Stations 31+80 and 38+20. 23,200 sf / 0.53 acres which provides some advance maintenance from a developing shoal. Second, will be to extend the permitted channel to a depth of -8 ft MLW at 73+88 to 77+00. This section of new work impacts 24,920 sf or 0.57 acres.

Dredged material was placed along approximately 2,400 ft of public beach at varying widths to an elevation of 6 ft MLW with a 1:10 (V:H) slope to the existing bottom. The proposed project design will accommodate approximate 35,000 cy of sandy dredged material. There is not sufficient sand to completely fill the template and the intent is to start filling at the north end of the project and progress to the south. This task implements Executive Order Goals 1, 2, 4, 8, 9, and 10.