1978 - Grandy Village Living Shoreline

Application Details

Funding Opportunity:	1447-Virginia Community Flood Preparedness Fund - Project Grants - CY23 Round 4	
Funding Opportunity Due Date:	Nov 12, 2023 11:59 PM	
Program Area:	Virginia Community Flood Preparedness Fund	
Status:	Under Review	
Stage:	Final Application	
Initial Submit Date:		
Initial Submit Date.	Nov 12, 2023 6:15 PM	
Initially Submitted By:	Nov 12, 2023 6:15 PM Justin Shafer	
Initially Submitted By:		

Contact Information

Primary Contact Information

Active User*:	Yes	
Туре:	External User	
Name*:	Mr.JustinMiddle NameShaferSalutationFirst NameLast Name	
Title:	Project Manager, Water Quality and Green Infrustructure	
Email*:	justin.shafer@norfolk.gov	
Address*:	2223 McKann Avenue	

		Virginia State/Province	23505 Postal Code/Zip
Phone*:	(757) 82	23-4048 Ext.	
	Phone		
	###-###	<i>t-11 </i>	
Fax:	####=####		
Comments:			

Organization Information

Status*:	Approved
Name*:	NORFOLK, CITY OF
Organization Type*:	Local Government
Tax ID*:	546001455
Unique Entity Identifier (UEI)*:	RS6DCM873FA3

Organization Website: Address*:	https://www.norfolk.gov/ 810 Union Street Suite 1101
	Norfolk Virginia 23510- City State/Province Postal Code/Zip
Phone*:	(757) 282-8383 Ext.
Fax:	####~####
Benefactor:	
Vendor ID:	
Comments:	

VCFPF Applicant Information

Project Description	
Name of Local Government*:	City of Norfolk
Your locality's CID number can be found at the f	ollowing link: Community Status Book Report
NFIP/DCR Community Identification Number (CID)*:	510104
If a state or federally recognized Indian tribe,	
Name of Tribe:	
Authorized Individual*:	PatrickRobertsFirst NameLast Name
Mailing Address*:	810 Union Street Address Line 1
	Suite 1101 Address Line 2
	Norfolk Virginia 23510 City State Zip Code
Telephone Number*:	757-664-4242
Cell Phone Number*:	757-664-4242
Email*:	city.manager@norfolk.gov
Is the contact person different than the authorize	d individual?
Contact Person*:	Yes
Contact:	Justin Shafer First Name Last Name
	501 Boush St Address Line 1
	Address Line 2
	Norfolk Virginia 23510 City State Zip Code
Telephone Number:	757-282-8383
Cell Phone Number:	757-282-8383
Email Address:	justin.shafer@norfolk.gov
Enter a description of the project for which yo	u are applying to this funding opportunity

Project Description*:

The Grandy Village Living Shoreline project will restore or protect over four acres of tidal marsh along approximately 1900 linear feet of eroding shoreline. The project is located in the Grandy Village public housing community. A rock sill with sand backfill will be installed, including significant oyster reef habitat on the channelward side. Invasive species will be removed from existing riparian forest behind the marsh.

Low-income geographic area means any locality, or community within a locality, that has a median household income that is not greater than 80 percent of the local median household income, or any area in the Commonwealth designated as a qualified opportunity zone by the U.S. Secretary of the Treasury via his delegation of authority to the Internal Revenue Service. A project of any size within a low-income geographic area will be considered.

Is the proposal in this application intended to benefit a low-income geographic area as defined above?

Benefit a low-income geographic area*:	Yes
Information regarding your census block(s) can be	found at census.gov
Census Block(s) Where Project will Occur*:	Tract 46 - Blocks 200, 2001, 2002
Is Project Located in an NFIP Participating Community?*:	Yes
Is Project Located in a Special Flood Hazard Area?*:	Yes
Flood Zone(s) (if applicable):	AE
Flood Insurance Rate Map Number(s) (if applicable):	5100340009D

Eligibility CFPF - Round 4 - Projects

Eligibility

Is the applicant a local government (including counties, cities, towns, municipal corporations, authorities, districts, commissions, or political subdivisions created by the General Assembly or pursuant to the Constitution or laws of the Commonwealth, or any combination of these)?

Local Government*:	Yes	
	Yes - Eligible for consideration	
	No - Not eligible for consideration	
Does the local government have an approved resilie	nce plan and has provided a copy or link to the plan with this application?	
Resilience Plan*:	Yes - Eligible for consideration under all categories	
	No - Eligible for consideration for studies, capacity building, and planning only	
If the applicant is not a town, city, or county, are letters	s of support from all affected local governments included in this application?	
Letters of Support*:	N/A	
	Yes - Eligible for consideration	
	No - Not eligible for consideration	
	N/A - Not applicable	
Has this or any portion of this project been included i	n any application or program previously funded by the Department?	
Previously Funded*:	No	
	Yes - Not eligible for consideration	
	No - Eligible for consideration	
Has the applicant provided evidence of an ability to provide the required matching funds?		
Evidence of Match Funds*:	Yes Yes - Eligible for consideration No - Not eligible for consideration N/A - Match not required	

Scoring Criteria for Flood Prevention and Protection Projects - Round 4

Category Scoring:

Hold CTRL to select multiple options

Project Category*:

Living shorelines and vegetated buffers

Is the project area socially vulnerable? (based on ADAPT Virginia?s Social Vulnerability Index Score)

Social Vulnerability Scoring:

Very High Social Vulnerability (More than 1.5) High Social Vulnerability (1.0 to 1.5) Moderate Social Vulnerability (0.0 to 1.0) Low Social Vulnerability (-1.0 to 0.0)

Very Low Social Vulnerability (Less than -1.0)

Socially Vulnerable*:

Very High Social Vulnerability (More than 1.5)

Is the proposed project part of an effort to join or remedy the community?s probation or suspension from the NHP?

No

Yes

NFIP*:

Is the proposed project in a low-income geographic area as defined below?

"Low-income geographic area" means any locality, or community within a locality, that has a median household income that is not greater than 80 percent of the local median household income, or any area in the Commonwealth designated as a qualified opportunity zone by the U.S. Secretary of the Treasury via his delegation of authority to the Internal Revenue Service. A project of any size within a low-income geographic area will be considered.

Low-Income Geographic Area*:

Projects eligible for funding may also reduce nutrient and sediment pollution to local waters and the Chesapeake Bay and assist the Commonwealth in achieving local and/or Chesapeake Bay TMDLs. Does the proposed project include implementation of one or more best management practices with a nitrogen, phosphorus, or sediment reduction efficiency established by the Virginia Department of Environmental Quality or the Chesapeake Bay Program Partnership in support of the Chesapeake Bay TMDL Phase III Watershed Implementation Plan?

Reduction of Nutrient and Sediment	Yes
Pollution*:	
Does this project provide ?community scale? benef	its?
Community Scale Benefits*:	More than one census block
Expected Lifespan of Project	
Expected Lifespan of Project*:	Over 20 Years
O	

Comments:

Social Vulnerability Score was based off Virginia Flood Risk Information System viewer. The ADAPT viewer uses older data that only delineates to the census tract level. In Norfolk social vulnerability can vary greatly between blocks within a tract.

Scope of Work - Projects - Round 4

Scope of Work

Upload your Scope of Work Please refer to Part IV, Section B. of the grant manual for guidance on how to create your scope of work

Scope of Work*:

Grandy Village Living Shoreline- Scope of Work.docx

Comments:

Budget Narrative

Budget Narrative Attachment*:

Grandy Village Living Shoreline Budget Narrative.docx

Comments:

Scope of Work Supporting Information - Projects

Supporting Information - Projects

Provide population data for the local government in which the project is taking place

Population*:

232995.00

Provide information on the flood risk of the project area, including whether the project is in a mapped floodplain, what flood zone it is in, and when it was last mapped. If the property or area around it has been flooded before, share information on the dates of past flood events and the amount of damage sustained

Historic Flooding data and Hydrologic Studies*:

Norfolk Flooding Data and Hydrologic Studies Link.docx

Include studies, data, reports that demonstrate the proposed project minimizes flood vulnerabilities and does not create flooding or increased flooding (adverse impact) to other properties

No Adverse Impact*:

No Adverse Impacts Assessment of Living Shorelines.docx

Include supporting documents demonstrating the local government's ability to provide its share of the project costs. This must include an estimate of the total project cost, a description of the source of the funds being used, evidence of the local government's ability to pay for the project in full or quarterly prior to reimbursement, and a signed pledge agreement from each contributing organization

Ability to Provide Share of Cost*:

CFPF FY24 - Document Transmittal Form.pdf

A benefit-cost analysis must be submitted with the project application

Benefit-Cost Analysis*:

Benefit Cost Analysis Narrative_Grandy Village.docx

Provide a list of repetitive loss and/or severe repetitive loss properties. Do not provide the addresses for the properties, but include an exact number of repetitive loss and/or severe repetitive loss structures within the project area

Repetitive Loss and/or Severe Repetitive Grandy Village Living Shoreline - Repetitive Loss Data.docx Loss Properties*:

Describe the residential and commercial structures impacted by this project, including how they contribute to the community such as historic, economic, or social value. Provide an exact number of residential structures and commercial structures in the project area

Residential and/or Commercial Structures*:

66 multi-family residential and three non-residential properties are within the project area. The community is a public housing complex with a mixture of townhouses and apartment style units. Nonresidential properties include the Grandy Village Learning Center, Grandy Village Recreation Center, and a facility maintenance building.

If there are critical facilities/infrastructure within the project area, describe each facility

Critical Facilities/Infrastructure*:

No critical facilities are located within the project area, although the Grandy Village Learning Center is an important facility for the surrounding lowincome community due to the educational and after-school services provided.

Explain the local government's financial and staff resources. How many relevant staff members does the local government have? To what relevant software does the local government have access? What are the local government's capabilities?

Financial and Staff Resources*:

The City of Norfolk has numerous professional and operational staff across multiple departments to provide support for project and grant management. In particular, the Office of Resilience and Division of Environmental Storm Water Management have more than 15 engineers, scientists, and inspectors who focus on design, construction, and monitoring of flood reduction, water quality projects, and green infrastructure projects. Storm Water has a two crews dedicated to maintenance of Best Management Practices, including living shorelines. The Department of Public Works has a dedicated Financial Management team who assist with project budget management, including a staff member who focuses on grants. Additional staff from the Bureau of Environmental Services support project inspection and staff from the Department of Parks and Recreation support project maintenance. Additional contracting, budget, and grant support is provided by staff in the City Manager's Office, Budget Office, Grant Management Office, and Public Works Design Division.

The City uses a variety of specialized software to manage all aspects of projects.

Overall project management is through the E-Builder web application. Budgets are managed in the AFMS web application. Grants are managed through the E-Civis web application. Contracting is managed through the OpenGov web application. Assets and maintenance work orders are managed in the Lucity application and ArcGIS.

Identify and describe the goals and objectives of the project. Include a description of the expected results of the completed project and explain the expected benefits of the project. This may include financial benefits, increased awareness, decreased risk, etc.

Goals and Objectives*:

Goal 1: Halt erosion of shoreline along Grandy Village from Ballentine Blvd to the eastern end of the community Goal 2: Restore lost and damaged tidal wetland habitat along the waterfront Goals 3: Enhance existing riparian and subtidal habitats adjacent to the shoreline for greater ecosystem services

Objective 1: Finalize the project design within 1 year of grant agreement signing Objective 2: Construct the living shoreline and other improvements within 3 years of the grant agreement signing Outline a plan of action laying out the scope and detail of how the proposed work will be accomplished with a timeline identifying expected completion dates. Determine milestones for the project that will be used to track progress. Explain what deliverables can be expected at each milestone, and what the final project deliverables will be. Identify other project partners

Approach, Milestones, and Deliverables*: Grandy Village Living Shoreline- Approach Milestone and Deliverables.docx

Where applicable, briefly describe the relationship between this project and other past, current, or future resilience projects. If the applicant has received or applied for any other grants or loans, please identify those projects, and, if applicable, describe any problems that arose with meeting the obligations of the grant and how the obligations of this project will be met

Relationship to Other Projects*:

The Grandy Village Living Shoreline meets goals of Norfolk's Resilience Strategy, Green Infrastructure Plan, Climate Action Plan, Comprehensive Plan, and TMDL Action Plan. The City has nearly 15 years experience implementing living shorelines and other nature based solutions to meet multiple goals. Nearby projects include shoreline, flood protection barriers, and a resilience park installed during the Ohio Creek Watershed Project, as well as numerous oyster reefs installed by community partners. The proposed Steamboat Creek living shoreline project is immediately across the river.

Norfolk has successfully applied for several projects and studies under the CFPF grant, including several studies, a living shoreline project at Riverside Memorial Cemetery, and support for the Coastal Storm Risk Management project. These awards are in various stages of completion. Norfolk does not anticipate any delays that would impact the schedule of the proposed project,

For ongoing projects or projects that will require future maintenance, such as infrastructure, flood warning and response systems, signs, websites, or flood risk applications, a maintenance, management, and monitoring plan for the projects must be provided

Maintenance Plan*:

Living Shoreline Maintenance Plan.docx

Describe how the project meets each of the applicable scoring criteria contained in Appendix B. Documentation can be incorporated into the Scope of Work Narrative

Criteria*:

Eligible Projects: The planned project is a living shoreline

Social Vulnerability Index Score: The project area has Very High SVI and a score of 2.82 per the Virginia Flood Risk Information System viewer

Community Scale of Benefit: The project provides direct benefits to three blocks within Block Group 2 of Tract 46 and indirect benefits city-wide to the many residents who use the Grandy Village Learning Center facilities.

Expected Lifespan of Project: The project is being designed with sea level rise in mind and is expected to survive for more than 20 years. The City also continues to research options to sustain green infrastructure assets in the long-term.

Remedy for NFIP probation or suspension: The City is not in probation or suspension status.

Proposed project part of a low-income geographic area: The project is in a low-income area. Norfolk as a whole is low-income compared to the state and the project area has even greater socioeconomic risk.

Budget

Budget Summary

Grant Matching Requirement*:	LOW INCOME - Projects that will result in nature-based solutions - Fund 95%/Match 5%
I certify that my project is in a low-income geographic area:	Yes
Total Project Amount*:	\$2,443,948.00
REQUIRED Match Percentage Amount:	\$122,197.40

BUDGET TOTALS

Before submitting your application be sure that you meet the match requirements for your project type.

5.00%

Match Percentage:

Verify that your match percentage matches your required match percentage amount above.

Total Requested Fund Amount:	\$2,321,750.00	
Total Match Amount:	\$122,198.00	
TOTAL:	\$2,443,948.00	
Personnel		
Description	Requested Fund Amount	Match Amount Match Source
	No Data for Table	
Fringe Benefits		
Description	Requested Fund Amount	Match Amount Match Source
	No Data for Table	
T		
Travel	Deres de l'Ere d'Ausserd	
Description	Requested Fund Amount	Match Amount Match Source
	No Data for Table	
Equipment		
Description	Requested Fund Amount	Match Amount Match Source
	No Data for Table	
	No Data for Table	
Supplies		
Description	Requested Fund Amount	Match Amount Match Source
	No Data for Table	
Construction		
Description	Requested Fund Amount	Match Amount Match Source
Construct Living Shoreline	\$2,269,468.00	\$0.00 N/A
	\$2,269,468.00	\$0.00
Contracts		
Description	Requested Fund Amount	Match Amount Match Source
Design living shoreline	\$52,282.00	\$122,198.00 Resilience CIP Fund
	\$52,282.00	\$122,198.00
	402,202.00	÷.12,:00.00
Maintenance Costs		
Description	Requested Fund Amount	Match Amount Match Source
	No Data for Table	
Des Annuel and Official Conf		
Pre-Award and Startup Costs		

No Data for Table Other Direct Costs Description Requested Fund Amount Match Amount Match Source No Data for Table No Data for Table Long and Short Term Loan Budget - Projects - VCFPF State Source Source Budget Summary Are you applying for a short term, long term, or no loan as part of your application? Kit Amount Source If you are not applying for a short term long term, or no loan as part of your application? Kit Amount Source Source Total Project Amount: Source Source <thsource< th=""> Source <thsou< th=""><th>Description</th><th></th><th>Requested Fund Amount</th><th>Match Amount Match Source</th></thsou<></thsource<>	Description		Requested Fund Amount	Match Amount Match Source
Sher Direct Costs Description Requested Fand Amount Match Amount Match Source No Data for Table No Data for Table No Data for Table Budget Summary Match Amount Match Source Match Amount Match Source Budget Summary No Data for Table No Data for Table Budget Summary No Adapting for a short term, long term, or no loan as part of your application? No Adapting for Loan Total Requested Fund Amount 0.00 No Data for Table Data for Table 0.00 No Data for Table Starios 0.00 No Data for Table Starios No Data for Table No Data for Table Fringe Benefits No Data for Table No Data for Table Travel No Data for Table No Data for Table Fringe Benefits No Data for Table No Data for Table Starios No Data for Table No Data for Table Fringe Benefits No Data for Table No Data for Table Starios No Data for Table No Data for Table Starios No Data for Table No Data for Table Starioption No Data for	Description			Match Amount Match Source
Description Requested Fund Amount Match Amount Match Source No Data for Table No Data for Table Budget Summary Are you applying for a short term, long term, or no loan as part of your application? If you are not applying for loan' and leave all other fields on this screen blank. Long of Short Term: No Applying for Loan No Applying for Loan Total Project Amount: S0.00 Sole for Table Sole TotAl: S0.00 Requested Fund Amount: Sole for Table Fringe Bonofits Sole for Table Requested Fund Amount: Sole for Table Fringe Bonofits Sole for Table Requested Fund Amount: Sole for Table Fringe Bonofits Sole for Table Requested Fund Amount: Sole for Table Fringe Bonofits Sole for Table Sole for Table Sole for Table Sole for Table Fringe Bonofits Sole for Table S			No Data for Table	
No Data for Table Long and Short Term Loan Budget - Projects - VCFPF Budget Summary Are you applying for a hort term, one tool on as part of your application? Way are not applying for a hort term, is not term, one tool on as part of your application? Way are not applying for a hort term, is not term, one tool on as part of your application? Way are not applying for Loan Total Project Amount: S0.00 Total Requested Fund Amount: S0.00 Total Requested Fund Amount: S0.00 Salaries Description Requested Fund Amount: No Data for Table Fringe Benefits Requested Fund Amount No Data for Table Requested Fund Amount No Data for Table Requested Fund Amount Travel Requested Fund Amount No Data for Table Requested Fund Amount No Data for Table Requested Fund Amount Supplies Requested Fund Amount No Data for Table Requested Fund Amount No Data for Table Requested Fund Amount No Data for Table Requested Fund Amount Supplies Requested Fund Amount No Data for Table Requested Fund Amo	Other Direct Costs			
Budget Summary Are you appying for a hort term, ion term, or to kan appling for loan' and leave all other fields on this screen blank Long of Shoft Term' Net Applying for a loan, seled 'hot applying for Loan' Total Project Amount: SU00 Total Project Amount: SU00 Total Project Amount: SU00 Salaries No Data for Table Fringe Benefits No Data for Table Benefition No Data for Table Fringe Benefits No Data for Table Benefition No Data for Table Supplies No Data for Table Supplies No Data for Table Supplies No Data for Table No Da	Description		Requested Fund Amount	Match Amount Match Source
Budget Summary Are you applying for a short term, long term, or no loss are of your application? If you are not applying for a loan, select 'not applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan Total Peoject Amount: Stort Term': Stort Term': Not Data for Table Fringe Benefits Description Fringe Benefits Description Equipment Description Description Description Description No Data for Table Supplies Supplies Supplies Construction Description Description Description Description No Data for Table No Data for Table Construction No Data for Table No Data for Table No Data for Table No Data for Table Construction No Data for Table No Data for Table No Data for Table Construction No Data for Table Construction No Data for Table No Da			No Data for Table	
Budget Summary Are you applying for a short term, long term, or no loss are of your application? If you are not applying for a loan, select 'not applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan Total Peoject Amount: Stort Term': Stort Term': Not Data for Table Fringe Benefits Description Fringe Benefits Description Equipment Description Description Description Description No Data for Table Supplies Supplies Supplies Construction Description Description Description Description No Data for Table No Data for Table Construction No Data for Table No Data for Table No Data for Table No Data for Table Construction No Data for Table No Data for Table No Data for Table Construction No Data for Table Construction No Data for Table No Da				
Budget Summary Are you applying for a short term, long term, or no loss are of your application? If you are not applying for a loan, select 'not applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan' and Leave all other fields on this screen blank Loang or Short Term': Not Applying for Loan Total Peoject Amount: Stort Term': Stort Term': Not Data for Table Fringe Benefits Description Fringe Benefits Description Equipment Description Description Description Description No Data for Table Supplies Supplies Supplies Construction Description Description Description Description No Data for Table No Data for Table Construction No Data for Table No Data for Table No Data for Table No Data for Table Construction No Data for Table No Data for Table No Data for Table Construction No Data for Table Construction No Data for Table No Da	Long and Short Te	erm Loan Budg	get - Projects - VCFPF	
Are you applying for a bort term, long term, or your application? Total Project Amount: 0.00 Total Project Amount: 0.00 Total Requested Fund Amount: 0.00 Total: 0.00 Tot				
tyo use not applying for a loan, select "not applying for Loan Not Applying for Loan Total Project Amount: 0.00 Total Requested Fund Amount: 0.00 Salaries Discription No Data for Table Fringe Benefits Discription No Data for Table Trave/ Description No Data for Table Trave/ Description No Data for Table Supplies Equipment Description No Data for Table Construction Supplies Supplies Supplies Construction Construction No Data for Table	Budget Summary			
Long or Short Term*: Not Applying for Loan Total Project Amount: \$0.00 Total Requested Fund Amount: \$0.00 Staries Image: Staries Description Requested Fund Amount: Pringe Benefits Image: Staries Fringe Benefits Image: Staries Description No Data for Table Travel Image: Staries Description No Data for Table Travel Image: Staries Equipment Image: Staries Supplies Image: Staries Supplies Image: Staries Construction Image: Staries Construction Image: Staries	Are you applying for a short te	erm, long term, or no loa	an as part of your application?	
Total Project Amount: 900 Total Requested Fund Amount: 900 Total: 900 Staries Image: Staries Description Image: Staries Pringe Benefits Image: Staries Description Image: Staries Pringe Benefits Image: Staries Pringe Benefits Image: Staries Description Image: Staries Trave/ Image: Staries Description Image: Staries Equipment Image: Staries Staries Image:				
Total: 50.00 Total: 50.00 Salaries Requested Rund Amount Description Requested Rund Amount No Data for Table No Data for Table Fringe Benefits No Data for Table Travel No Data for Table Description Requested Rund Amount Particle No Data for Table Travel No Data for Table Description Requested Rund Amount No Data for Table Requested Rund Amount Supplies No Data for Table Supplies No Data for Table Supplies No Data for Table Construction No Data for Table Supplies No Data for Table Supplies No Data for Table Supplies No Data for Table Construction Requested Rund Amount No Data for Table Requested Rund Amount No Data for Table Requested Rund Amount Supplies No Data for Table Construction Requested Rund Amount No Data for Table Requested Rund Amount No Data for Table R				
TOTAL: \$0.00 Salaries Requested Fund Amount No Data for Table No Data for Table Fringe Benefits Requested Fund Amount Description No Data for Table Travel No Data for Table Description No Data for Table Travel Requested Fund Amount Description No Data for Table Equipment No Data for Table Supplies No Data for Table Supplies No Data for Table Construction No Data for Table Supplies No Data for Table Construction Requested Fund Amount No Data for Table No Data for Table				
Salaries Description Descripti				
Description Requested Fund Amount No Data for Table Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Travel No Data for Table Description Requested Fund Amount Requested Fund Amount No Data for Table Equipment No Data for Table Supplies No Data for Table Description Requested Fund Amount No Data for Table No Data for Table Construction Requested Fund Amount No Data for Table No Data for Table			\$0.00	
No Data for Table Fringe Benefits Description Requested Fund Amount No Data for Table Travel Description Requested Fund Amount No Data for Table Equipment Description Requested Fund Amount No Data for Table Supplies Description Requested Fund Amount No Data for Table Supplies Description Requested Fund Amount No Data for Table Supplies Description Requested Fund Amount No Data for Table Construction Requested Fund Amount Description Requested Fund Amount				
Fringe Benefits Requested Fund Amount Description No Data for Table Travel Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Equipment Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Supplies No Data for Table Description Requested Fund Amount No Data for Table Requested Fund Amount Requested Fund Amount	Description			Requested Fund Amount
Description Requested Fund Amount No Data for Table Requested Fund Amount Description Requested Fund Amount No Data for Table No Data for Table Equipment Requested Fund Amount Description Requested Fund Amount Supplies Requested Fund Amount No Data for Table Requested Fund Amount Construction Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Supplies Requested Fund Amount No Data for Table Requested Fund Amount Requested Fund Amount No Data for Table Requested Fund Amount No Data for Table			No Data for Table	
Description Requested Fund Amount No Data for Table Requested Fund Amount Description Requested Fund Amount No Data for Table No Data for Table Equipment Requested Fund Amount Description Requested Fund Amount Supplies Requested Fund Amount No Data for Table Requested Fund Amount Construction Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Supplies Requested Fund Amount No Data for Table Requested Fund Amount Requested Fund Amount No Data for Table Requested Fund Amount No Data for Table	Fringe Renefits			
No Data for Table Travel Description Requested Fund Amount No Data for Table Equipment Description Requested Fund Amount No Data for Table Supplies Description Requested Fund Amount No Data for Table Construction Description Requested Fund Amount No Data for Table				Requested Find Amount
Travel Description Requested Fund Amount Description No Data for Table Equipment No Data for Table Supplies Requested Fund Amount Description Requested Fund Amount No Data for Table No Data for Table Supplies No Data for Table Construction Requested Fund Amount Description Requested Fund Amount No Data for Table No Data for Table	Description			requested rund Priodin
Description Requested Fund Amount No Data for Table Requested Fund Amount Equipment Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Supplies Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Construction Requested Fund Amount Description Requested Fund Amount			No Data for Table	
Requested Fund Amount Description Requested Fund Amount No Data for Table Supplies Description Requested Fund Amount No Data for Table Construction Description Requested Fund Amount Requested Fund Amount No Data for Table	Travel			
Equipment Requested Fund Amount Description Requested Fund Amount Supplies Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Construction Requested Fund Amount Description Requested Fund Amount Description Requested Fund Amount	Description			Requested Fund Amount
Equipment Requested Fund Amount Description Requested Fund Amount Supplies Requested Fund Amount Description Requested Fund Amount No Data for Table Requested Fund Amount Construction Requested Fund Amount Description Requested Fund Amount Description Requested Fund Amount			No Data for Table	
Description Requested Fund Amount No Data for Table No Data for Table Description Requested Fund Amount No Data for Table No Data for Table Construction Requested Fund Amount Description Requested Fund Amount				
No Data for Table Supplies Description Requested Fund Amount No Data for Table Construction Description Requested Fund Amount Description Requested Fund Amount	Equipment			
Supplies Requested Fund Amount Description No Data for Table Construction Requested Fund Amount Description Requested Fund Amount	Description			Requested Fund Amount
Description Requested Fund Amount No Data for Table Requested Fund Amount Construction Requested Fund Amount Description Requested Fund Amount			No Data for Table	
Description Requested Fund Amount No Data for Table Requested Fund Amount Construction Requested Fund Amount Description Requested Fund Amount				
No Data for Table Construction Description Requested Fund Amount	Supplies			
Construction Description Requested Fund Amount	Description			Requested Fund Amount
Description Requested Fund Amount			No Data for Table	
Description Requested Fund Amount	_			
No Data for Table	Description			Requested Fund Amount
			No Data for Table	

Contracts		
Description		Requested Fund Amount
	No Data for Table	
Other Direct Costs		
Description		Requested Fund Amount
	No Data for Table	
Supporting Documentation		

Supporting Documentation

Named Attachment	Paguirad	Description	File Name	Туре	Sizo	Upload Date
Nameu Altachiment	Requireu	Description		Type	Size	Date
Detailed map of the project area(s) (Projects/Studies)	t	The attached map shows the proposed shorelines for design and the area reviewed as part of the project.	Grandy Village Living Shoreline - Project Area Map.docx	docx	2 MB	11/10/2023 03:42 PM
FIRMette of the project area(s) (Projects/Studies)		The attached map shows flood zones within the project area	Grandy Village Flood Hazard Area.pdf	pdf	1 MB	11/10/2023 03:42 PM
Historic flood damage data and/or images (Projects/Studies)	1	Map and photos showing shoreline erosion	Grandy Village Living Shoreline - Damage Photos.docx	docx	2 MB	11/12/2023 06:14 PM
A link to or a copy of the current floodplain ordinance		A link to Norfolk's floodplain ordinance is provided in the attached file.	Norfolk Floodplain Ordinance.docx	docx	12 KB	11/09/2023 05:07 PM
Maintenance and management plan for project		Ageneral description of living shoreline maintenance is attached and an SOP is provided in supporting documents.	Living Shoreline Maintenance Plan.docx	docx	12 KB	11/12/2023 06:05 PM
A link to or a copy of the current hazard mitigation plan		In 2022, the Hampton Roads Planning District Commission updated the Hampton Roads Hazard Mtigation Plan. The City of Norfolk worked with other local communities to develop the plan and it serves as the Hazard Mtigation Plan for Norfolk. Links to the plan and Norfolk's latest annual report are in the attached file.	Hazard Mtigation Plan.docx	docx	12 KB	11/09/2023 05:07 PM
A link to or a copy of the current comprehensive plan		Alink for Norfolk's comprehensive plan is found in the attached word document.	Norfolk Comprehensive Plan Link.docx	docx	12 KB	11/09/2023 05:07 PM
Social vulnerability index score(s) for the project area		The attached map shows the Very High Social Vulnerability of the surrounding community	Grandy Village- Social Vulnerability Map.pdf	pdf		11/10/2023 03:43 PM
Authorization to request funding from the Fund from governing body or chief executive of the local government Signed pledge agreement from each contributing	I	The attached Transmittal Form provides permission from the City Manager for the grant application and approval of use of CIP funds as match.	CFPF FY24 - Document Transmittal Form.pdf	pdf	1 MB	11/09/2023 05:07 PM
organization						
Maintenance Plan		Living shorelines are consider BMPs in the City of Norfolk and are inspected and maintained annually by the Division of Environmental Storm Water Management as part of their routine BMP programs. When necessary, guidance and more detailed monitoring and maintenance are provided by additional environmental staff from the Office of Resilience and Bureau of Environmental Services.	SOP 654 Storm Water BMP Inspection_Finalized 2020.pdf	pdf		11/09/2023 05:07 PM
		ed with project applications over \$2,000,000. in lieu of using the FEMA benefit-cost and and value. The narrative must explicitly indicate the risk reduction benefits of a flood m				
Benefit Cost Analysis		A narrative of the benefit cost analysis is included and a spreadsheet with further details is included in supporting documents	Benefit Cost Analysis Narrative_Grandy Village.docx	docx		11/12/2023 06:06 PM

A spreadsheet with additional benefit cost analysis details is attached

Other Relevant Attachments

Letters of Support

Grandy Village Cost xlsx 1 11/12/2023

Estimate and MB 06:07 PM

BCAxIsx

Description	File Name	Туре	Size	Upload Date	е	
	No files attached.					
Resilience Plan						
Resilience Plan						
Description		File Na	ime	Тур	e Size	Upload Date
	e descriptions and links for all required elements o as approved by DCR in August 2021.		ence Planning Ove < - DCR Approved /	rview for the City of pdf Aug 2021.pdf	288 KB	11/09/2023 05:07 PM

Resilience Planning Overview for the City of Norfolk

In response to the resilience planning requirements of the **Community Flood Preparedness Fund** ("the CFPF" or "Fund") outlined within the <u>2021 CFPF Grant Manual</u> (Appendix G: Elements of Resilience Plans), the City of Norfolk ("the City") has prepared the following Resilience Planning Overview of formal and relevant plans utilized for resilience planning efforts by the City to prioritize potential projects and to assist the City is its efforts to secure funding for such critical resilience plans, studies and projects.

The **Elements of Resilience Plans** taken from Appendix G of the 2021 CFPF Grant Manual, from which communities are expected to highlight the stated resilience planning contents as they related to CFPF grant applications, are as follows:

- 1. It is project-based with projects focused on flood control and resilience.
- 2. It incorporates nature-based infrastructure to the maximum extent possible.
- 3. It includes considerations of all parts of a locality regardless of socioeconomics or race.
- 4. It includes coordination with other local and inter-jurisdictional projects, plans, and activities and has a clearly articulated timeline or phasing for plan implementation.
- 5. Is based on the best available science, and incorporates climate change, sea level rise, storm surge (where appropriate), and current flood maps.

Norfolk's resilience planning elements are not contained within an adopted "stand alone" plan. However, Norfolk's utilizes various plans within a resilience repertoire, which altogether serve multiple needs for various audiences; from technical to public-facing to operational. This Resilience Planning Overview will expressly identify to the grant reviewer, and to the public, how various resilience planning documents of the City of Norfolk satisfy all the CFPF Resilience Plan elements.

The following plans for the City of Norfolk will contribute to this Resilience Planning Overview:

- *plaNorfolk2030* (2013, as amended)
- <u>Vision2100</u> (2016)
- <u>Hampton Roads Hazard Mitigation Plan</u> (2017)
- <u>Combined Coastal and Precipitation Flooding Master Plan</u> (2017)
 - Appendix A: <u>Norfolk Preliminary City-wide Coastal Flooding Mitigation Concept</u> <u>Evaluation and Master Plan Development</u> (Fugro Atlantic)
 - Appendix B: *City-wide Drainage and Watershed Master Plan* (Timmons Group)
- <u>A Green Infrastructure Plan for Norfolk</u> (2018, as amended)
- <u>USACE Coastal Storm Risk Management (CSRM) Feasibility Study and Environmental Impact</u> <u>Statement</u> (2019)
- Zoning Ordinance of the City of Norfolk (2018, as amended)

Responses are provided below in red based on the various Norfolk plans for the following example resilience elements outlined in Appendix G of the 2021 CFPF Grant Manual:

• Equity based strategic polices for local government-wide flood protection and prevention. The <u>Hampton Roads Hazard Mitigation Plan</u> recommends the highest priority of protection to be reserved towards protection projects for severe repetitive loss areas (Mitigation Actions 8 & 11) in Norfolk. Research in Norfolk has shown that these areas are often places where the most vulnerable residents are housed.

Additionally, Mitigation Action 12 recommends Norfolk begin risk/hazard mitigation efforts equitably by first implementing a major flood control project within the historically black community of Chesterfield Heights; implementation of a \$112M HUD project awarded through the National Disaster Resilience Competition (construction currently underway).

• Proposed projects that enables communities to adapt to and thrive through natural or human hazards.

The <u>Combined Coastal and Precipitation Flooding Master Plan</u> (Norfolk's "Flooding Master Plan") is based on a major multi-year study effort supported by technical analyses and recommendations from Fugro Atlantic within the <u>Norfolk Preliminary City-wide Coastal Flooding Mitigation</u> <u>Concept Evaluation and Master Plan Development</u> (the "Fugro report"). The Flooding Master Plan is also supporting by a thorough analysis and priority ranking technical guide of the City's drainage conveyance system, <u>City-wide Drainage and Watershed Master Plan</u> by Timmons Group.

Together, with this technical supporting documentation, the <u>Flooding Master Plan</u> provides the framework for Norfolk to intelligently review and prioritize flood protections project to enable Norfolk to adapt and thrive to current and future flood threats.

• Documentation of existing social, economic, natural, and other conditions present in the local government.

The <u>USACE Coastal Storm Risk Management (CSRM) Feasibility Study and Environmental Impact</u> <u>Statement</u> presents a robust analysis of the best recommendations for City-wide flood protection measures for the City of Norfolk. This report includes 10% engineered designs for the various flood protection measures recommended throughout the entire community, and a preliminary Environmental Impact Statement is included outlining the existing social, economic, natural conditions, vulnerabilities and stressors within the natural and social environment, as well as proposed impacts. See the various CSRM appendices for these detailed conditions and impact reports.

- Review of the vulnerabilities and stressors, both natural and social in the local government. See CSRM comment above. Additional overview of the vulnerabilities and stressors can be found in the *Hampton Roads Hazard Mitigation Plan*.
- Forward-looking goals, actionable strategies, and priorities through as seen through an equitybased lens.

Norfolk remains committed to presenting all action plans through an equity-based lens, as found within the actionable strategies of <u>A Green Infrastructure Plan for Norfolk</u> and the <u>Hampton</u> <u>Roads Hazard Mitigation Plan</u>. Both plans are tactical, and recommendation are based on a 5year forward-looking outlay. Recommendations of the Fugro report are based on a 50-year outlay, and recommendations of <u>Vision2100</u> geared towards the year 2100. • Strategies that guides growth and development away from high-risk locations that may include strategies in comprehensive plans or other land use plans or ordinances or other studies, plans or strategies adopted by a local government.

<u>Vision2100</u> is serves a land use guide for the City. The plan divides Norfolk up into four main areas by which the City will focus new investments and make necessary steps to prepare for a changing environment:

- ✓ Purple: Low Flood Risk / Low Degree of Civic Assets: Establishing Neighborhoods of the Future
- ✓ Green: Low Flood Risk / High Degree of Civic Assets: Designing New Urban Centers
- ✓ Yellow: High Flood Risk / Low Degree of Civic Assets: Adapting to Rising Waters
- ✓ Red: High Flood Risk / High Degree of Civic Assets: Enhancing Economic Engines (protect!)
- Proposed acquisition of land or conservation easements or identification of areas suitable for conservation particularly areas identified as having high flood attenuation benefit by *ConserveVirginia* or similar data driven tools.

<u>Vision2100</u> provides the framework for selecting the areas suitable for conservation easements. The <u>Norfolk Zoning Ordinance</u> provides the mechanism for purchasing land conservation easement credits from the <u>Coastal Resilience Overlay</u> through transferring <u>Resilient Quotient</u> points to the <u>Upland Resilience Overlay</u> (requires extinguishment of a density unit – developable dwelling unit). The conservation easement, while recorded on the deed and kept on file with the Planning Department, can be held by the property owner, the Zoning Ordinance also permits it to be placed in a land trust.

- Identification of areas suitable for property buyouts in frequently flooded areas.
 See <u>Vision2100</u> "Yellow" areas (High Flood Risk / Low Degree of Civic Assets: Adapting to Rising Waters) and Coastal Resilient Overlay areas on the <u>Norfolk Zoning Map</u>.
- Identification of critical facilities and their vulnerability throughout the local government such as water and sewer or other types identified as "lifelines" by FEMA.

A list of all critical facilities is contained within the *Norfolk Emergency Operations Manual* (2020). See Mitigation Action 5 from <u>Hampton Roads Hazard Mitigation Plan</u>: "Purchase and install generators or other continuous power sources for critical facilities and infrastructure. This action may include, but is not limited to pump stations, EOC (Emergency Operations Center), shelters, underpasses and important traffic signals." The critical facilities list is available upon request.

• Identified ecosystems/wetlands/floodplains suitable for permanent protection.

See <u>A Green Infrastructure Plan for Norfolk</u>, this includes an Action Plan Appendix for Threatened and Endangered Species within critical floodplain habitats, as well as a detailed ecological inventory with recommendations for floodplain protection measures within an connected open space corridor network.

- Identified incentives for restoring riparian and wetland vegetation.
 - The City's Public Works Division of Stormwater Management offers the <u>Stormwater Fee</u> <u>Reduction Program</u> for homeowners and businesses who opt to implement water quality improvements on their private property including riparian buffer and shoreline management improvement.
 - Environmental Conservation Consulting Norfolk annually funds a contract to coordinate with residential property owners for implementation of water quality improvements on their private property including riparian buffer and shoreline management improvement through a cost-share program. Property owners get a percentage of the project paid through the contractor via the Environmental Conservation Consulting services contract.
 - Norfolk regularly applies for grants to partner with community organizations for implementation of green infrastructure of public lands – projects are reviewed by the Watershed Management Task Force to ensure that projects are furthering the goals and objectives of the adopted <u>Green Infrastructure Plan for Norfolk</u>.
- A framework for implementation, capacity building and community engagement.
 - The **Watershed Management Task Force** and the recently created Program for Public Information committee are two groups made up of joint staff/citizen/technical expert members, which collectively drive the City's ongoing programing for green infrastructure projects and flood mitigation messaging. Capital Improvement Project funding recommendations from the <u>Green</u> <u>Infrastructure Plan for Norfolk</u> are also reviewed monthly by the Watershed Management Task Force.
- Strategies for creating knowledgeable, inclusive community leaders and networks.

The 12-member Norfolk Coastal Management Review Board (CMRB) provides recommendations to the 7-member Erosion Advisory Commission, which is partially comprised of members of the CMRB. The CMRB is made up of elected leaders, civic league presidents/community leaders and technical experts from the Virginia Institute of Marine Science, Virginia Marine Resources Commission, Army Corp of Engineers, Old Dominion University Department of Ocean, Earth and Atmospheric Sciences, and city technical staff, providing workshops, seminars and project assessments of coastal mitigation and erosion projects; specifically intended to build grassroots technical capabilities and citizen champions within the community. The Norfolk CMRB and Erosion Advisory Commission is established by <u>City Code</u> and guided by the City's adopted <u>Sand Management Plan</u>.

• A community dam safety inventory and risk assessment posed by the location and condition of dams.

Not applicable in Norfolk – not at dam risk.

 A characterization of the community including population, economics, cultural and historic resources, dependence on the built environment and infrastructure and the risks posed to such infrastructure and characteristics by flooding from climate change, sea level rise, tidal events or storm surges or other weather.

This general characterization is well documented within the general/comprehensive plan for the City of Norfolk – *plaNorfolk2030*. This includes dozens of resiliency recommendations for flood risk reduction and communication.

- Strategies to address other natural hazards that would cause, affect or result from flooding events including:
 - Earthquakes.
 - Storage of hazardous materials
 - Landslides/mud/debris flow/rock falls.
 - Prevention of wildfires that would result in denuded lands making flooding, mudslides or similar events more likely.
 - Preparations for severe weather events including tropical storms or other severe storms, including winter storms.

The *Hampton Roads Hazard Mitigation Plan* is a FEMA-accredited all-hazards plan.

SOP 654



DEPARTMENT OF PUBLIC WORKS DIVISION OF ENVIRONMENTAL STORM WATER MANAGEMENT STORM WATER BMP INSPECTIONS

DATE WRITTEN: DATE REVISED:	March 8, 2005 June 28, 2017; September 18, 2018; November 25, 2019; February 10, 2020
PREPARED BY:	Kyle Quick, Environmental Specialist; June Whitehurst, Environmental Programs
<u>REVIEWED BY:</u> FILE PATH:	Manager John M. White, Storm Water Engineer Enter Link Here
DISTRIBUTION:	Operations Personnel

PURPOSE / OBJECTIVE:

To define guidelines for the inspection and enforcement for the installation and maintenance of all private and city-owned storm water structural best management practices (BMPs). BMPs reduce unwanted contaminants and/or the volume of storm water entering the City MS4 system and local waterways. BMPs are regularly inspected to ensure they are working as designed and maintained in such a manner to not cause flooding, become a nuisance, or impose a threat to health and safety.

RESPONSIBILITIES:

Division – The Department of Public Works, Division of Environmental Storm Water Management is the administrator of the MS4 VPDES Permit, VA0088650. Environmental staff ensures compliance with the VPDES permit associated with BMP inspections to the storm water system. State law requires BMPs to be inspected once every 5-years. The City's MS4 permit requires city-owned BMPs be inspected and maintained once per year.

Environmental Staff develop and maintain a list of BMPs within the geographic boundary of the City of Norfolk. This list is routinely updated following site plan review. Environmental staff conduct routine inspections of both private and public storm water BMPs.

OTHER:

BMPs are used to reduce pollution in and/or volume of storm water runoff, thereby protecting area waterways. Some examples of structural storm water BMPs include infiltration trenches, grass swales, detention basins, retention ponds, oil/grit separators, bioretention basins, manufactured BMPs, etc.

REQUIREMENTS:

- BMPs are approved for installation after an extensive site plan review by a designated storm water engineer. All pertinent information pertaining to the BMPs are entered into the current BMP tracking database.
- 2. As part of the site plan approval process, a Declaration of Covenants for Storm and Surface Water Facility and System Maintenance (BMP Maintenance Agreement) should be signed and notarized by the owner or responsible party of the private property being developed to maintain the BMP after construction. That party will remain responsible for all maintenance until the property is sold; at which time the new owner is responsible for maintaining the BMP. A copy of the agreement is filed with the clerk of the court by the owner or responsible party. A copy of the agreement is also maintained in the site plan file at the Division.
- 3. Storm water management (SWM) facilities or BMPs are required to be installed in accordance with the approved plans, and manufacturers' specifications where applicable. The City of Norfolk Planning Department, Building Safety Bureau will inspect the installation of onsite stormwater piping and structures. The Department of Public Works, Environmental Storm Water Management

SOP 654



DEPARTMENT OF PUBLIC WORKS DIVISION OF ENVIRONMENTAL STORM WATER MANAGEMENT STORM WATER BMP INSPECTIONS

staff will inspect the installation of BMPs. Additionally, they also inspect stormwater piping and structures within the City Right-of-Way and piping that ties into the City's MS4 system. During construction, environmental staff will have completed the following procedures:

- a. A pre-construction meeting will be scheduled to go over expectations. Preconstruction meetings will be documented.
- b. Follow up inspections with the contractor will occur throughout the construction process to verify that the BMPs are installed in accordance with the approved plans. These inspections should take place before any backfilling occurs and should include pictures for documentation. If there is a tie-in to the city system, a storm water inspector will inspect the tie-in.
- c. A construction record drawing ("As-built" submission) signed and sealed by a professional registered in Virginia will be reviewed by a storm water engineer or their designee to verify the SWM facilities have been installed per the approved plan.
- d. A final inspection will be performed by the environmental staff to ensure that the BMP and contributing drainage areas are stabilized. The inspector will also ensure that the site is free of excessive litter or debris, sediment build up, or erosion, and no deviations from the approved construction record drawing.
- e. Upon approval of the construction record drawing and the final inspection, the environmental staff will approve the release of the Certificate of Occupancy (if required) and approval to terminate bonds for stormwater improvements.
- 4. All privately-owned and city-owned BMP inspections are tracked in the current BMP tracking database. The database enables the Division to maintain inspection data and to ensure inspections are completed on a routine schedule.
- 5. When an inspection is conducted, the following items are checked to ensure that the BMP will consistently perform its water quality improvement and/or runoff reduction functions.
 - a. *Sediment Buildup*: Sediment buildup can reduce the effectiveness of the BMP by blocking inlets and outlets, reducing infiltration rates, and reducing effectiveness of pretreatment practices.
 - b. *Erosion*: Erosion can lead to reduced volume of the BMP and/or structural failure. Erosion is a common problem around inlets and outlets of BMPs, and may also be caused by roots of woody vegetation and animal burrows.
 - c. *Debris and Litter Removal*: Regular removal of litter and debris is essential to ensure the BMP is working properly. The BMP must be free from debris and litter in or around the BMP structure.
 - d. *Vegetation*: Vegetation must be established and maintained to guard against erosion and sediment buildup, and to maintain designed pollutant removal rates where applicable. Excessive vegetation clippings must be removed from the BMP and disposed of properly.
 - e. Deviation from the Construction Record Drawing: Verify a property owner, tenant, or other responsible party has not modified a post-construction BMP without written approval from the City of Norfolk Department of Public Works storm water engineer, or their designee.

SOP 654



DEPARTMENT OF PUBLIC WORKS DIVISION OF ENVIRONMENTAL STORM WATER MANAGEMENT STORM WATER BMP INSPECTIONS

- f. *Manufactured BMPs*: The owner or responsible party are required to maintain manufactured BMPs in accordance with the manufacturer's specifications, and to provide evidence of continued maintenance by copies of maintenance records and/or photographic proof.
- g. Other Maintenance Concerns: Refer to the Virginia Department of Environmental Quality Stormwater Design Specifications for other BMP maintenance concerns.
- 6. The environmental staff will complete an inspection report and track inspections in the current BMP tracking database. The responsible party will either be sent an email or a letter that lists the BMP maintenance discrepancies and includes a copy of the inspection report, if necessary. The responsible party will have a specified time-period to complete the maintenance after the report has been sent. A re-inspection will occur after the allotted time-period to ensure all corrections have been made. If the inspector has had no contact from the property owner, if letters have been returned, or if the discrepancies have not been addressed a Notice of Violation (NOV) may be sent or issued. If no progress occurs after the NOV has been issued, further legal actions should be taken. The City also holds the right to conduct the corrections after proper warning, and then charge the responsible party for any financial obligations. If the BMP is working properly and does not appear to have any maintenance discrepancies, a note will be made in the file and no report will be sent to the responsible party.
- 7. Routine maintenance for any City-owned BMP is conducted by the Division which is submitted in a service request and put into the work management tracking system. The City-owned BMPs must also follow all the guidelines established above.
- 8. The Norfolk Public Schools BMPs are inspected by the environmental staff, however, the school board facilities manager is the main point of contact for any discrepancies regarding BMP maintenance at school facilities. The school board is responsible for maintaining the BMPs and if major work is required beyond the capabilities of facilities personnel, then they will hire a contractor.

Approved:

Jøhn M. White Storm Water Engineer Public Works, Division of Environmental Storm Water Management

-DS

ÐL

-DS

CS



For CM Office use only: DTS #_____

Use for All City Documents Which Require the City Manager's Staff Approval

Due Date: <u>11/10/23 (submittal by 11/12/23)</u>	Return Completed Document To: <u>Justin Shafer</u>
DEPARTMENT	OFFICE OF RESILIENCE
A. TO BE COMPLETED FOR CONTRACTS, AGREEMEN	NTS, RFPS, AND GRANTS:
Τιτιε	FY24 Community Flood Preparedness Fund Grant
PARTY (Company and principal's names with which the City is entering into the agreement.)	Virginia Department of Conservation and Recreation
EFFECTIVE DATES (Start & end dates)	March 15, 2024 – March 15, 2027 (estimated based on expected award announcement and agreement dates)
TOTAL DOLLAR VALUE	\$6,695,610 (\$6,360,829 grant award & \$334,781 match)
FUNDING SOURCE (Operating or capital budget; budget year; grant or other source. Show account information)	SOURCE: RESILIENCE CIP ACCOUNT: 4000-2-4361-5501-FY24
TYPE (New or extension)	New
SUMMARY OF SCOPE OF SERVICE/ PROGRAM	Grant to support design and construction of living shorelines at Grandy Village and East Ocean View Community Center, and design of living shorelines in the Steamboat Creek area of Campostella. Projects will support resilience, water quality, and green infrastructure goals, including CSRM and Bay TMDL.
CALL OUTS (Indicate any unique circumstances regarding provisions such as procurement protest pending, emergency purchase or other time sensitivity, so forth, along with any other pertinent information)	
B. TO BE COMPLETED FOR HUMAN RESOURCES DO	DCUMENTS:
TYPE OF DOCUMENT:	N/A
BRIEF DESCRIPTION: N/A	
the contents and implications of the attached document in	easonable due diligence has been performed to sufficiently develop in a manner to protect and account to the public. Further, all City fore, I (we) recommend the City Manager execute this document. <u>Matt Simmers</u> 11/8/2023 Department Signature Date
Review.by.DCM Approve Disapprove	□ <u>Reviewaby CM</u> Approve □ Disapprove □
II I	
Douglas Beaver 11/8/2023	6 31 PM EST 11/9/2023 4:2



