NDRC Project Proposal Template

Name of Locality Proposing Project:	*City of Newport News*
Target Area To Be Served By Project:	*Newmarket Creek Watershed*

Project Description	
A. Project Description *(provide short narrative)*	Flooding due to rainstorm events such as hurricanes and nor'easters within the watershed affect personal and private property, commercial areas and businesses, and emergency response/access to areas using local roadways. The watershed is within the oldest section of the City and is mostly developed with the majority being residential areas with a few zones of commercial properties. The area was developed prior to any regulations and restrictions regarding stormwater management thus design of drainage systems was to a very low standard (if any). There are sections where development was allowed to occur prior to the establishment of Base Flood Elevations (BFE) within the creek. Due to inefficient drainage, City streets and intersections can become impassible creating a dilemma for City emergency responders such as fire and police to access areas within the watershed. The City is investigating projects, programs, and plans to improve drainage systems and stormwater management, to detect significant events and quickly address the safety of community residents, and to enhance the quality of life and sense of community within the watershed.
B. Project Product(s)/Deliverable(s)/Outcomes	Computer analysis of the overall watershed to determine specific flooding issues/locations for project implementation; improvements to drainage systems within the residential community; evacuation procedures for specific sites; safety of City's residents; enhancement of communal facilities/features; redevelopment designed to embrace water features.
C. Alternatives Considered *(NOFA, p.43)*	
D. Key Project Objectives – How does it fit with the approach, *thRIVe: Resilience In Virginia*? *(Appendix H, p.5)*	Foster a continued relationship with the City of Hampton for solving flooding issues within the watershed and not have a boundary define the limits of programs and projects. Provide ways to assist the community residents before, during, and after rainfall events that cause flooding issues.

		Analyze, plan, and implement projects to improve water quality and quantity within the watershed. Work with local businesses and developers for retrofitting or providing better design of properties to enhance stormwater management to work with water and not against.
E.	**Metric(s) for Resiliency Value - provide at least one** *(NOFA, p. 43*) *Examples may include: value of protection from the effects of future/repeat disasters, including, but not limited to, flood, wind, fire, earthquakes; Reduction of expected property damages due to future/repeat disasters; Reduction of expected casualties from future/repeat disasters; Value of reduced displacement caused by future/repeat disasters; Reduced vulnerability of energy and water infrastructure to large-scale outages*	Reduction in cost of property damage Better preparation for when rainfall events occur
F.	**Metric(s) for Environmental Value - provide at least one** *(NOFA, p. 43*) *Examples may include: Ecosystem and bio diversity effects (e.g. from wetlands restoration or reforestation); Reduced energy use; Noise levels; Climate change – Reduced Greenhouse Gas emissions; Air Quality – Reduced criteria pollutants (nitrogen dioxide (NO2), ozone (03), sulfur dioxide (SO2) and particulate matter of aerodynamic diameter of the micrometers or fewer (PM-10); Water quality – reduced storm water runoff; Reduced urban heat-island effect*	Promote 'living with water'; better designs in stormwater management Reduce quantity issues and increase quality controls
G	**Metric(s) for Social Value** (provide at least one; *NOFA, p. 43*) *Examples may include: Reductions in human suffering (lives lost, illness from exposure to environmental contamination, asthma and cancer rates in low income and minority populations living in areas with greater environmental risk); Benefit to low- and moderate-income persons and/or households;* *Improved living environment (such as elimination of slum and blight conditions, improved community identity and social cohesion, improve recreational value, greater access to Cultural, historic, archaeological sites and landscapes, equal access to resilient community assets); Greater housing affordability*	Reduce flooding, mold accumulation, health issues Enhance community amenities/recreational sites
H.	**Metric(s) for Economic Revitalization - provide at least one** *(NOFA, p. 43*) *Examples may include: Direct effects on local or regional economy (e.g. tourism revenue) net of opportunity costs; Value of property other than through enhanced flood protection, independent of increases in property value captured by other*	Renewed viability of commercial/business sector in watershed

benefits in the BCA or that might otherwise have occurred without the proposed project.	
I. **Timeline for Completion** *(NOFA, p. 43; Crosswalk Checklist, p. 3)* **- A program schedule for completion of the project within 24 months is required (5 Points)**	Dutch Dialogues Workshop - completed Computer Modeling of the Watershed - completed Newmarket South Drainage Improvements – design completed; Phase 1 construction (dates); Phase 2 construction (dates). Drainage Improvements for additional storage and water quality – assessment/feasibility study. City of Newport News Emergency Evacuation Plan for City Line Apartments – complete and enacted by May 2016. Early Warning Detection System - design Redevelopment of commercial/business properties – assessment/feasibility.
Project Information Required for Phase Two Application	
J. **Discuss how the project has been informed by citizen input and public engagement**	Southeast Neighborhood Watch Group – City employees from multiple departments attend this quarterly meeting in the community to discuss issues and problems within the community and the programs and projects that the City will and have implemented. Staffs from the Engineering and Public Works Departments typically attend these meetings for input from and give updates to the community residents. Dutch Dialogues – A 4-day event where the public was invited to view the *(tasks, expectations, goals, locations-one being Newmarket Creek)* on the first day and the presentations of the work, findings, and results on the last day. All information and work done during the workshop is available online.
K. **Discuss how the project was coordinated with other Community Entities** (Business, Military, etc.) **and Neighboring Jurisdictions** (Cities, Counties, and States)	Management of the City Line Apartments has been in constant contact with City staff for ways to offset repetitive losses, flood-proofing of property, and alternate means of early warning and/or detection of high water levels. City of Hampton is downstream of Newport News and experiences similar issues/problems with private and commercial property owners as well as response/access to parts of Hampton. Staffs of both Cities maintain regular contact regarding potential improvement projects of both small and large scale endeavors.
L. **Evidence of tieback to Hurricane Irene Disaster**	

M.	**Discuss how project meets one of the 3 CDBG National Objectives:** - *Benefits low- and moderate-income persons.* - *Prevents or eliminates blight.* - *Meets other urgent community development needs because existing conditions pose a serious and immediate threat to the health or welfare of the community, and other financial resources are not available.*	5.5 percent (9,981 people) of the city's total population (181,025) lives in the project area. 78.1% of the population identify as minority, with almost 71.2% identifying as African-American. 12.1 percent of the eligible workforce in the project area is unemployed. The unemployment rate for the project area is higher than the citywide rate at 7 percent. Median Household Income for the project area is $33,388, which is well below that of the city as a whole at $51,027. Median Family Income for the project area is $43,647, which is again well below that for the city as a whole at $59,514.
N.	**Explain how this project ties back to the approach, *thRIVe: Resilience In Virginia***	*Unite the Region* – the City's of Newport News and Hampton are working together to solve flooding issues along the creek from both stormwater and tidal effects. *Create Coastal Resilience* – the City has performed computer modeling of the watershed and participated in the Dutch Dialogues workshop that studied the creek and provided a vision of what the waterway could become. *Strengthen Vulnerable Neighborhoods* – the City is preparing to implement an Emergency Evacuation Plan for an apartment complex, which can be a model for a plan for the entire southeast community. *Build Water Management Solutions* – the City is evaluating warning systems as well as designing and constructing drainage improvement projects to reduce flooding issues and risk to community residents.
O.	**How does the proposed project respond to and address Unmet Recovery Need(s) And Framed Recovery Issues identified?** *(NOFA, p. 43; Crosswalk Checklist, p. 3)*	
P.	**How does this project increase resilience of the MID-URN Target Area, and Region or State?** *(NOFA, p.43; Crosswalk Checklist, p.3)*	
Q.	**How will this project decrease risk to identified vulnerable populations?** *(NOFA, p.43)*	

R.	**Is the project replicable – how is it a model for other communities?** *(NOFA, p. 43; Crosswalk Checklist, p. 3)*	
S.	**Risks if the project is not implemented** *(Appendix H, p.5)* **at 5, 20, 50 years?** **What would be the impact on the community as a whole and any vulnerable populations identified?**	
T.	**Describe project feasibility and effectiveness in providing protection from current and future threat(s)/hazard(s), including those associated with climate change.** *(NOFA, p. 43-44)* **Include the following:** • **Expected level of protection once completed** • **Expected useful life of project** • **How does the project conform to accepted design practices, established codes, standards, modeling techniques or best practices?** • **Estimate resources by type and amount needed to maintain project and the source of those resources**	
Budget For Project *(NOFA, p. 43; Crosswalk Checklist, p. 3)*		
U.	**Project Cost**	Watershed Analysis $655,430 (already spent) Newmarket South Drainage Improvements $5,000,000 Drainage Improvements for Water Quality & Quantity (assessment) $50,000; (design) $500,000; (construction) $10,000,000 Early Warning Detection System $100,000 Retrofit Existing Infrastructure $5,000,000
V.	**Amount of NDRC funds needed for project**	$20,000,000

W.	**Committed and Potential <u>LEVERAGE</u> Sources and Status** *(For <u>direct leverage</u>, the documentation must also indicate that the funding is available to you for the activities directly related to undertaking your CDBG-NDR proposal.)*	
X.	**Sources of Committed and Potential <u>SUPPORTING COMMITMENTS</u> and Status** *(For <u>supporting leverage</u>, the documentation must indicate that the funds are available to you or to your Partners to carry out activities that directly support the overall proposal.)*	
Y.	**Describe Approaches to Scaling/Scoping/Phasing Of Project** *(NOFA, p. 43)*	
Z.	**Attach the Map of MID-URN Target Area with the project's location marked. On the map, outline or shade all tracts (with and without target population) that will benefit from the project.**	

NDRC Project Proposal Template

Name of Locality Proposing Project:	City of Newport News
Target Area To Be Served By Project:	South East Neighborhood Improvements

Project Description: Chesapeake Avenue Seawall, Chesapeake Avenue Bike Trail and Sidewalk, Peterson Yacht Basin Dredging, Hampton Avenue Channel Improvements and Constructed Wetlands, Salter Creek Stream Restoration, Flood Assistance Program.	
A. Project Description *(provide short narrative)*	To enhance and stabilize shorelines and roadway embankments along Chesapeake Ave, reduce impact and risk of flooding to private and public properties. Increase quality of water by implementing dredging and stream restoration projects, and minimizing erosion and sediment transport. To improve the safety and appearance of the neighborhood, attract recreational as well as commuter pedestrians and cyclists in order to improve the quality of life for citizens. To connect with access throughout the City to create a more sustainable and safe pedestrian atmosphere. **Chesapeake Avenue Seawall:** The seawall is approximately 3,550 lf in length. It extends from Monitor Merrimac Overlook Park to the south of Hampton/Newport News city limits. The seawall protects the shoreline adjacent to Chesapeake Avenue from Hampton Roads body of water. The water body has semidiurnal tides with fluctuations of 2 to 3 feet between high and low tides. It is not known when the original Chesapeake Ave seawall was constructed. In 1984, the original stone rip-rip was covered with a layer of concreted reinforced with wire-mesh. In September of 2003 hurricane Isabel destroyed a 540 lf section of the seawall. The damaged section was removed and replaced in 2004 at approximate cost of $1,000,000.00 **Chesapeake Avenue Bike Trail and Sidewalk:** The City is planning on constructing a separated bike path and a sidewalk along the shoreline of Chesapeake Avenue. The bike trail and sidewalk of 0.64 miles will improve the safety of the cyclists and pedestrians by removing them from interfering with the 1,694 vehicles per day traveling along Chesapeake Ave.

	Peterson Yacht Basin Dredging: Channel for boat access is in need of dredging. The dredging operations remove accumulated material such as sediment and decayed vegetation from the bottom of main channel. The material is removed to establish previous depths within the channel. Typical operations involve use of a barge in the channel to remove the material and deposit into trucks for hauling to an approved site. **Hampton Avenue Channel Improvements and Constructed Wetlands** Restoration and stabilization of an existing open drainage channel along an existing City right-of-way. Improvements range from hard and soft stabilization, such as stone riprap, channel benching, wetlands vegetation, and adding bends to the channel flow. Replacement of the culverts under Buxton, Poplar, and Maple Avenues will be included with the overall project. Project also includes the construction of tidal wetlands as part of the channel improvements, and constructed wetlands as water quality BMPs for TMDL credits. The new channel will provide improved flow of stormwater runoff as well as flood control in the area. Area will become more aesthetically pleasing and reduce nuisances of undesirable animal life. An additional benefit with the BMP and a natural channel design is the City can take credit for the reduction of pollutants such as sediment, nitrogen, and phosphorus from entering the Chesapeake Bay. Replacing the culvert increases the stability and lifespan of the structure which will reduce the cost for maintenance and repair. The length of the channel is approximately 1300 LF. **Salter Creek Stream Restoration** Restoration and stabilization of an existing open drainage channel along an existing City right-of-way. Improvements range from hard and soft stabilization, such as stone riprap, channel benching, wetlands vegetation, and adding bends to the channel flow. The new channel will provide improved flow of stormwater runoff. Area will become more aesthetically pleasing and reduce nuisances of undesirable animal life. An additional benefit with the BMP and a natural channel design is the City can take credit for the reduction of pollutants such as sediment, nitrogen, and phosphorus from entering the Chesapeake Bay. The length of the channel is approximately 1400 LF.

	Flood Assistance Program: The City Council established a Flood Assistance Program in July 1999. This program is funded annually in the City's Stormwater Operating budget at $200,000.00 for voluntarily acquiring properties located at the City's lowest lying areas with a goal of reducing or eliminating losses, reducing flood insurance costs and restoring wetlands.
B. Project Product(s)/Deliverable(s)/Outcomes	*Chesapeake Avenue Seawall, providing a better armored shoreline protection structure. *Chesapeake Avenue Bike Trail and Sidewalk, to improve the safety and appearance of the neighborhood and enhance the quality of life of its residents *Peterson Yacht Basin Dredging, enhancing water quality quantity by increasing depth of water and volume of we pond. Removal of the sediment and decayed vegetation keeps the main boat channel operational. *Hampton Avenue Channel Improvements and Constructed Wetlands, to stabilize the channel, enhance the quality of the natural environment and reduce flooding. * Salter Creek Stream Restoration, to stabilize the channel, enhances the quality of the natural environment, and reduces flooding. *Flood Assistant Program, buying properties in the floodplain areas.
C. Alternatives Considered *(NOFA, p.43)*	Yes, using hard in lieu of soft nourishment for stream restoration will be associated with higher costs.
D. Key Project Objectives – How does it fit with the approach, *thRIVe: Resilience In Virginia*? *(Appendix H, p.5)*	This area's component improvements will create coastal resilience by improving stability of shorelines along the roadway, and reduce neighborhood flooding through construction of stream restorations and wetland areas. Strengthens appearance, quality of life and safety of the area by providing better protected shorelines, sidewalks and bike trail.
E. Metric(s) for Resiliency Value - provide at least one *(NOFA, p. 43)* *Examples may include: value of protection from the effects of future/repeat disasters, including, but not limited to, flood, wind, fire, earthquakes; Reduction of expected property damages due to future/repeat disasters;*	Seawall stabilization will increase resistance against future storms similar to Isabel (September 2003), where the City removed and replaced a 540 ft section of the damaged seawall at approximate cost of $1,000,000. Improving streams and creating wetlands reduces flooding and increases water quality.

	Reduction of expected casualties from future/repeat disasters; Value of reduced displacement caused by future/repeat disasters; Reduced vulnerability of energy and water infrastructure to large-scale outages	
F.	**Metric(s) for Environmental Value - provide at least one** *(NOFA, p. 43*) *Examples may include: Ecosystem and bio diversity effects (e.g. from wetlands restoration or reforestation); Reduced energy use; Noise levels; Climate change – Reduced Greenhouse Gas emissions; Air Quality – Reduced criteria pollutants (nitrogen dioxide (NO2), ozone (03), sulfur dioxide (SO2) and particulate matter of aerodynamic diameter of the micrometers or fewer (PM-10); Water quality – reduced storm water runoff; Reduced urban heat-island effect*	Parts of the area's components are Channel Restoration, Dredging and wetland construction, which will enhance ecosystem and bio diversity for the creeks and channels, and ultimately to the Hampton Roads body of water and Chesapeake Bay.
G	**Metric(s) for Social Value** (provide at least one; *NOFA, p. 43*) *Examples may include: Reductions in human suffering (lives lost, illness from exposure to environmental contamination, asthma and cancer rates in low income and minority populations living in areas with greater environmental risk); Benefit to low- and moderate-income persons and/or households;* *Improved living environment (such as elimination of slum and blight conditions, improved community identity and social cohesion, improve recreational value, greater access to Cultural, historic, archaeological sites and landscapes, equal access to resilient community assets); Greater housing affordability*	*Improved living environment (The bike trail along Chesapeake Avenue will improve the safety and appearance of the neighborhood and enhance the residents' quality of life *Improved living shoreline (The Chesapeake Avenue Seawall repair will protect a more than 3,500 foot of a roadway that conveys a traffic volume of 1,694 vehicles per day, including private properties and future bike trial/sidewalk)
H.	**Metric(s) for Economic Revitalization - provide at least one** *(NOFA, p. 43*) *Examples may include: Direct effects on local or regional economy (e.g. tourism revenue) net of opportunity costs; Value of property other than through enhanced flood protection, independent of increases in property value captured by other benefits in the BCA or that might otherwise have occurred without the proposed project.*	All of this area's components will contribute to increased property values by providing a more stabilized structure against storm surges and wave actions, less conflict of pedestrians and bike riders with a roadway that carries 1,694 vehicles per day. Also, a better quality of life by increasing ecosystem and stream restoration using soft nourishment techniques.

I.	**Timeline for Completion** *(NOFA, p. 43; Crosswalk Checklist, p. 3)* **- A program schedule for completion of the project within 24 months is required (5 Points)**	*Chesapeake Avenue Seawall, future project will be in construction within 2-yrs depending upon availability of funds. *Chesapeake Avenue Bike Trail/Side walk is under design (to be complete in 2016), and construction to be complete in 2017. *Hampton Avenue Channel Improvements and Constructed Wetlands, design and construction to be complete within 2-years. *Salters Creek Steam Restoration, future project, design to be complete within 2 years.
Project Information Required for Phase Two Application		
J.	**Discuss how the project has been informed by citizen input and public engagement**	Southeast Neighborhood Watch Group – City employees from multiple departments attend this quarterly meeting in the community to discuss issues and problems within the community and the current and future City programs and projects. Staffs from the Engineering and Public Works Departments typically attend these meetings for input from and give updates to the community residents.
K.	**Discuss how the project was coordinated with other Community Entities** (Business, Military, etc.) **and Neighboring Jurisdictions** (Cities, Counties, and States)	Most of the planned projects were addressed in City's Project Status Report, which is available to the public through the City's Engineering website. The Project Status Report addresses all the start/finish dates of the projects' preliminary, design and construction.
L.	**Evidence of tieback to Hurricane Irene Disaster**	Hurricane Irene came after Isabel and the unrepaired portion of the Chesapeake Avenue Seawall, which is approximately is 3,000 lf in length, is the same situation as it was after Isabel and has been through all subsequent storms and Hurricanes. Pictures of the Hurricane Irene related Chesapeake Avenue Seawall damages are attached to this document.
M.	**Discuss how project meets one of the 3 CDBG National Objectives:** - *Benefits low- and moderate-income persons.* - *Prevents or eliminates blight.* - *Meets other urgent community development needs because existing conditions pose a serious and immediate threat to the health or welfare of the community, and other financial resources are not available.*	10.4 percent (18,910 people) of the city's total population (181,025) lives in the project area. 91.7% of the population identify as minority, with 85.5% identifying as African-American. 12.2 percent of the eligible workforce in the project area is unemployed. The unemployment rate for the project area is higher than the citywide rate at 7 percent. Median Household Income for the project area is $25,917, which is well below that of the city as a whole at $51,027. Median Family Income for the project area is $31,076, which is again well below that for the city as a whole at $59,514.

N.	**Explain how this project ties back to the approach, *thRIVe: Resilience In Virginia***	This area's component improvements will create coastal resilience by improving stability of shorelines along the roadway, and reduce neighborhood flooding through construction of stream restorations and wetland areas. Strengthens appearance and safety of the area by providing better shoreline structures and bike trail.
O.	**How does the proposed project respond to and address Unmet Recovery Need(s) And Framed Recovery Issues identified?** *(NOFA, p. 43; Crosswalk Checklist, p. 3)*	The project area needs a better stabilized shoreline, better access and management of green area along the roadway, more improved and enhanced basins and streams. All of these area's requirements (Unmet) and more are framed and identified in this project.
P.	**How does this project increase resilience of the MID-URN Target Area, and Region or State?** *(NOFA, p.43; Crosswalk Checklist, p.3)*	Through construction of a better seawall, more stabilized shorelines and streams, the area will be more strengthened to resist significant storms and hurricanes.
Q.	**How will this project decrease risk to identified vulnerable populations?** *(NOFA, p.43)*	Residences and properties along Chesapeake Avenue, including the roadway, will be in a safer situation and sustainable going forward.
R.	**Is the project replicable – how is it a model for other communities?** *(NOFA, p. 43; Crosswalk Checklist, p. 3)*	The City of Newport News used the same or similar techniques in other areas of the City for stream and channel restoration. The same techniques were used for replacing the portion of the Chesapeake Avenue Seawall that was damaged by Hurricane Isabel.
S.	**Risks if the project is not implemented** *(Appendix H, p.5)* **at 5, 20, 50 years?** **What would be the impact on the community as a whole and any vulnerable populations identified?**	The area will subject to more storm surges and wave actions, more shoreline and stream erosion will happen, then the risk of flooding, undermining of roadways and loss of properties will increase.
T.	**Describe project feasibility and effectiveness in providing protection from current and future threat(s)/hazard(s), including those associated with climate change.** *(NOFA, p. 43-44)* **Include the following:** • **Expected level of protection once completed** • **Expected useful life of project** • **How does the project conform to**	Once this project is complete: 1. A more stabilized seawall will be in place, 2. Improved access and use of citizens to the green area along the roadway, 3. Improved quality of environment and life, 4. Less transport of sediment to US water, 5. Stabilized and improved property values, Expected useful life of the project ranges from 5 to 50-yrs depending of the size and magnitude of the hurricane/storm events. All project components will be designed by licensed Professional

accepted design practices, established codes, standards, modeling techniques or best practices? • **Estimate resources by type and amount needed to maintain project and the source of those resources**	Engineers, and acceptable design techniques and codes will be implemented.
Budget For Project *(NOFA, p. 43; Crosswalk Checklist, p. 3)*	
U. Project Cost	*Chesapeake Avenue Seawall, $5,000,000.00 *Chesapeake Avenue Bike Trail and Sidewalk, $1,500,000.00 *Peterson Yacht Basin Dredging, $1,000,000.00 *Hampton Avenue Channel Improvements and Constructed Wetlands $1,200,000.00 * Salter Creek Stream Restoration, to stabilize the channel, $1,800,000.00 *Flood Assistant Program, buying properties in the floodplain areas. $12,000,000.00 Total $22,500,000.00
V. Amount of NDRC funds needed for project	$19,300,000.00
W. Committed and Potential <u>LEVERAGE</u> Sources and Status *(For <u>direct leverage</u>, the documentation must also indicate that the funding is available to you for the activities directly related to undertaking your CDBG-NDR proposal.)*	Leverage for few of the area's improvement projects $1,500,000.00 for design and construction of Chesapeake Avenue Bike Trail and Sidewalk, $300,000.00 for dredging, $1,200,000.00 for design and construction of Hampton Avenue Channel Improvements and Constructed Wetlands $200,000.00 Flood Assistance Program Total $3,200,000.00

X.	**Sources of Committed and Potential <u>SUPPORTING COMMITMENTS</u> and Status** *(For <u>supporting leverage</u>, the documentation must indicate that the funds are available to you or to your Partners to carry out activities that directly support the overall proposal.)*	
Y.	**Describe Approaches to Scaling/Scoping/Phasing Of Project** *(NOFA, p. 43)*	
Z.	**Attach the Map of MID-URN Target Area with the project's location marked. On the map, outline or shade all tracts (with and without target population) that will benefit from the project.**	

Shar, Mohammad H.

From: Williams, Stephen L.
Sent: Monday, August 29, 2011 11:51 AM
To: Shar, Mohammad H.; Lewis, Brian D.
Cc: Davis, Joseph L.; Everton, Jeffrey W.
Subject: FW: Seawall 16th Street

FYI

From: Davis, Joseph L.
Sent: Monday, August 29, 2011 11:34 AM
To: Williams, Stephen L.
Subject: Seawall 16th Street

Storm Damage Irene 024

Storm Damage Irene 026

Storm Damage Irene 028

Storm Damage Irene 029

Thanks,
Joe
757-269-2483 office
757-269-2477 fax

757-592-2079 cell