



## **CITY OF POQUOSON**

**Office of the City Manager**  
**J. Randall Wheeler**

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June 13, 2022

**To:** City Council  
**From:** City Manager  
**Subject:** **Resolution Adopting the 2022 Hampton Roads Hazard Mitigation Plan Update**

Presented for your consideration is a resolution adopting the updated Hampton Roads Hazard Mitigation Plan which has been approved by FEMA Region III and in which the City of Poquoson's Plan will be incorporated. A summary of the update process is included with this item for your review. The City's Hazard Mitigation Plan Team consisted of Deputy Fire Chief Michael Bryant, Building Official Ken Somerset, Director of Public Works John Anderson, Planner Thomas Cannella, Finance Specialist Jessica Davis and Assistant City Manager Tonya O'Connell. The City's Team worked with Ms. Leigh Chapman of Salter's Creek Consultant to assist the City with our Plan update. Deputy Fire Chief Michael Bryant is present at the meeting to answer any questions you may have.

A copy of the full document can be accessed on the HRPDC web site at:  
<https://www.hrpdcva.gov/departments/emergency-management/2022-hampton-roads-hazard-mitigation-plan/>



## City of Poquoson Fire/Rescue

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To: City Council  
From: Michael D. Bryant, Deputy Fire Chief/ EM Coordinator  
Through: Randy Wheeler, City Manager

Date: June 13, 2022

### **RE: Executive Summary**

In order to reduce or eliminate the long term risk to human life and property from natural hazards, the City of Poquoson prepared a Regional Hazard Mitigation Plan comprised equally of citizens and government representatives for Poquoson and the region, the **Poquoson Hazard Mitigation Planning Committee (HMPC)** met during 2022 to generate the elements of this Plan. Salters Creek Consulting was contracted by VDEM to assist the Region throughout the planning process. Salters Creek's role included facilitating all meetings of the HMPC, preparing presentations for all public meetings, and instructing committee members about the role of mitigation in hazard preparedness. For the original plan and the update, Salters Creek Consulting coordinated the reviews and comments of committee members, and other state agencies including VDEM, and FEMA. This updated Plan was sent electronically to City Hall for review.

This Plan has been prepared and updated in accordance with the requirements of the Disaster Mitigation Act of 2000. This legislation reinforced the importance of pre-disaster infrastructure mitigation planning to reduce disaster losses nationwide, and was aimed primarily at streamlining federal disaster streamlining federal disaster relief and programs to promote mitigation activities.

The elements of this Plan coincide with the primary planning tasks performed by the HMPC. The Committee conducted a risk assessment by analyzing and prioritizing the critical natural hazards that threaten the region.

Armed with a detailed risk assessment, the HMPC set regional mitigation goals to address areas where improved capabilities could reduce vulnerability. Goals and objectives for achieving the goals, were further refined into mitigation alternatives.

With the adoption of this Plan, the HMPC is converted to a permanent advisory body referred to as the Mitigation Coordinating Committee (MCC) whose primary duty is to see the Plan successfully carried out. Plan maintenance must be an ongoing effort to

monitor and evaluate the implementation of the Plan, and update as necessary. Monitoring and updating will take place through an annual review by the MCC and a five-year written update to be submitted to the Virginia Department of Emergency Management and FEMA Region III, unless disaster or other circumstances lead to a different timeframe.

**RESOLUTION ADOPTING THE 2022 HAMPTON ROADS HAZARD MITIGATION PLAN UPDATE**

**WHEREAS**, the City of Poquoson, Virginia recognizes the threat that natural hazards pose to people and property within our community; and

**WHEREAS**, undertaking hazard mitigation actions will reduce the potential for harm to people and property from future hazard occurrences; and

**WHEREAS**, an adopted Hazard Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs; and

**WHEREAS**, the City of Poquoson, Virginia fully participated in the FEMA-prescribed mitigation planning process to prepare this Hazard Mitigation Plan; and

**WHEREAS**, the Virginia Department of Emergency Management and Federal Emergency Management Agency, Region III officials have reviewed the “**2022 Hampton Roads Hazard Mitigation Plan Update**” and approved it contingent upon this official adoption of the participating governments and entities.

**NOW, THEREFORE, BE IT RESOLVED**, by the Council of the City of Poquoson, Virginia adopts the “**2022 Hampton Roads Hazard Mitigation Plan**” as an official plan; and

**BE IT FURTHER RESOLVED**, the City of Poquoson, Virginia will submit this Adoption Resolution to the Virginia Department of Emergency Management and Federal Emergency Management Agency, Region III officials to enable the Plan’s final approval.

**Section 1:** That the “**2022 Hampton Roads Hazard Mitigation Plan**” is hereby adopted as an official regional plan.

**Section 2:** That this resolution shall become effective immediately upon its adoption.

**ADOPTED:** \_\_\_\_\_

**TESTE:** \_\_\_\_\_  
City Clerk

# POQUOSON

## POQUOSON MITIGATION ACTION 1

Continue participating in the National Flood Insurance Program and the Community Rating System, with a goal of becoming a Class 7 community. Continue enforcement of standards in existing floodplain management ordinance that meet and exceed NFIP minimum requirements. Encourage additional staff to become Certified Floodplain Managers.

Study feasibility of implementing additional floodplain management ordinance changes, including:

1. Changes to the definition of “substantial improvement” that would require accumulation of costs of improvements and repairs of buildings, based on issued building permits, over a set time period; and,
2. Coastal A Zone regulations that apply coastal high hazard area requirements in areas delineated by FEMA as subject to wave heights between 3 feet and 1.5 feet high.

### BACKGROUND INFORMATION

<b>Site and Location:</b>	Special Flood Hazard Areas of Poquoson
<b>Cost Benefit:</b>	Additional measures to manage floodplains can further reduce flood response needs in the long-term, and reduce flood insurance premiums through CRS rating changes in the near-term. The NFIP and related flood mapping and development regulations have proven benefits nationwide.

### MITIGATION ACTION DETAILS

<b>Hazard(s) Addressed:</b>	Flooding, Tropical/Coastal Storm, Sea Level Rise and Land Subsidence
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.1, 1.2, 1.5
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Moderate/High – the area has relatively moderate or relatively high NRI flood risk, which includes analysis of social vulnerability.
<b>Estimated Cost:</b>	Travel costs and staff time
<b>Potential Funding Sources:</b>	Existing budgets; HMGP 5% Initiative
<b>Lead Agency/Department Responsible:</b>	Building Inspections
<b>Implementation Schedule:</b>	Ongoing

### ADDITIONAL COMMENTS

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POQUOSON MITIGATION ACTION 2	
<p><b>Elevate, relocate, acquire, retrofit or floodproof structures in hurricane prone areas. Flood protection may include minor localized flood reduction projects, as well. Wind retrofit measures are also included and may be appropriate for some structures, especially publicly-owned structures. This action includes Mitigation Reconstruction projects.</b></p>	
BACKGROUND INFORMATION	
<b>Site and Location:</b>	Flood-prone areas Citywide, and Citywide for wind retrofits
<b>Cost Benefit:</b>	Retrofit measures that address flood- and wind-prone structures, particularly those designated as repetitive loss or severe repetitive loss by the NFIP, have quantifiable benefits by reducing future damages to the structures. FEMA will now fund hazard mitigation projects that include sea level rise estimates.
MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Flooding, Tropical/Coastal Storm, Sea Level Rise and Land Subsidence
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.1, 1.2; Goal 3
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Moderate/High – the area has relatively moderate or relatively high NRI flood risk, which includes analysis of social vulnerability.
<b>Estimated Cost:</b>	In multiple \$250,000 phases as grant money becomes available. Individual structure costs vary.
<b>Potential Funding Sources:</b>	DHS: BRIC, HMGP, FMA, RFC; USDA; Virginia CFPF
<b>Lead Agency/Department Responsible:</b>	Emergency Management and Building Inspections
<b>Implementation Schedule:</b>	Ongoing
ADDITIONAL COMMENTS	

<b>POQUOSON MITIGATION ACTION 3</b>	
<b>Implement the Shoreline Management Plan developed by Virginia Institute of Marine Science, as conditions warrant.</b>	
<b>BACKGROUND INFORMATION</b>	
<b>Site and Location:</b>	Shorelines Citywide
<b>Cost Benefit:</b>	Implementation is not costly and could be absorbed by existing department budgets. Materials to share with property owners and training for staff (and interested property owners) are available from VIMS at very low cost. Adding links from the City web page to the VIMS toolbox is low cost but would provide valuable information to property owners.
<b>MITIGATION ACTION DETAILS</b>	
<b>Hazard(s) Addressed:</b>	Flooding, Tropical/Coastal Storm, Sea Level Rise and Land Subsidence, Landslide/Coastal Erosion
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.3, 1.6; Goal 2, Objective 2.1; Goal 3, Objectives 3.1, 3.3, 3.4
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Impact on Socially Vulnerable Populations:</b>	Moderate/High – the area has relatively moderate or relatively high NRI flood risk, which includes analysis of social vulnerability.
<b>Estimated Cost:</b>	Staff time only
<b>Potential Funding Sources:</b>	Existing budgets; DHS: HMGP 5% Initiative
<b>Lead Agency/Department Responsible:</b>	Planning Department, Permitting, and Engineering
<b>Implementation Schedule:</b>	Ongoing
<b>ADDITIONAL COMMENTS</b>	
<p>Currently, Virginia’s Shoreline Erosion Advisory Service is not funded. Property owners need guidance on best management shoreline protection methods from reliable sources and not necessarily just from shoreline repair contractors.</p> <p>The <i>Poquoson Comprehensive Plan 2008-2028</i>, Environmental Management Element, Shoreline Sub-Element, states as its second goal, “Develop a shoreline management plan to ensure property shoreline protection and create a framework for incentive[s] based on programs to encourage less intrusive means of shoreline protection.” While permitting incentives were considered that might encourage living shorelines, City staff determined that permit fees and review times are already as low as possible.</p>	

**POQUOSON MITIGATION ACTION 4**

**Continue to increase flood and wind protection and flood access/egress for critical facilities and infrastructure. Elevate new critical facilities, retrofit existing facilities as necessary, and elevate roads to provide access to elevated critical facilities. Retrofits may include but are not limited to: installation of emergency backup power, elevation of structure or components, relocation or retrofit of building components, and installation of tidal/flap valves on drainage structures. Coordinate with public utilities to protect or retrofit transformers, critical infrastructure and overhead power lines.**

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Critical facilities Citywide.
<b>Cost Benefit:</b>	Benefits of mitigating flood damage to critical facilities are realized by all citizens through the city's ability to maintain the highest operational capabilities post-disaster. Flooding of roads prevents access to elevated critical facilities. Benefits are based on reduced response times, and longevity of critical infrastructure. Elevation of roads could reduce evacuation times once flooding begins, and protect roadbeds from erosion associated with sea level rise in the future.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	All
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.1, 1.2, 1.3, 1.4, 1.5
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Moderate/High – the area has relatively moderate or relatively high NRI flood risk, which includes analysis of social vulnerability.
<b>Estimated Cost:</b>	Cost will be based on measures chosen for each building
<b>Potential Funding Sources:</b>	DHS: BRIC, HMGP, HMGP 5% Initiative, FMA, RFC; Stafford Act Section 406 - post-disaster mitigation funds under Public Assistance for damaged public facilities; Virginia CFPF
<b>Lead Agency/Department Responsible:</b>	Public Works/Engineering, Fire Department, Police Department, Public Utilities
<b>Implementation Schedule:</b>	Ongoing

**ADDITIONAL COMMENTS**

Some vital infrastructure such as storm sewer and sanitary sewer are subject to flooding, and possibly vulnerable to sea level rise in the future.



**POQUOSON MITIGATION ACTION 5**

**Collect and share hazard-related data in GIS-compatible format, including but not limited to:**

- 1) add tide gauges for flood prediction and collect high water marks and calculate flood frequency for all coastal storms;**
- 2) continue to collect Elevation Certificates for each structure in the 100-year floodplain and post online for property owner use;**
- 3) use sidescan LIDAR to collect additional data regarding structure elevations Citywide;**
- 4) incorporate new software for the assessor’s database that includes flood elevation data;**
- 5) use drone-produced real-time storm surge/tidal conditions mapping developed in conjunction with NASA and ODU; and,**
- 6) inventory and prioritize low-lying secondary roads and intersections critical to evacuation.**

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Citywide
<b>Cost Benefit:</b>	Collection of elevation information and retention of Elevation Certificates can reduce surveying costs for property owners and buyers in the future. The partnership with NASA for real-time mapping has been a very successful and low-cost venture.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flooding, Tropical/Coastal Storm, Sea Level Rise and Land Subsidence, Landslide/Coastal Erosion, Winter Storm, Hazardous Materials Incident
<b>Goal(s) Addressed:</b>	Goal 3, Objectives 3.2, 3.3, 3.4
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Moderate/High – the area has relatively moderate or relatively high NRI flood risk, which includes analysis of social vulnerability.
<b>Estimated Cost:</b>	Staff time Post-disaster surveys could be used to collect structure elevations at approximately \$300/structure (for a large number of structures at once)
<b>Potential Funding Sources:</b>	NASA and ODU; HRPDC, USACE: FPMS; DHS: HMGP, HMGP 5% Initiative; USGS; Virginia CFPF
<b>Lead Agency/Department Responsible:</b>	Engineering, Building Inspections, Emergency Management
<b>Implementation Schedule:</b>	Ongoing

**ADDITIONAL COMMENTS**

The City Building Inspector continues to compile and digitize a collection of Elevation Certificates for existing structures, elevated/mitigated structures and new structures, and he maintains pertinent data from the forms in a digital format.

City has collected high water marks after recent floods and anticipates doing so again in the future. City notifies residents on low-lying roads of evacuation needs early via CodeRed, posts digital signage and advises them to move personal property early in the evacuation process.

<b>POQUOSON MITIGATION ACTION 6</b>	
<b>Review and update Pre-Disaster Debris Management Plan.</b>	
<b>BACKGROUND INFORMATION</b>	
<b>Site and Location:</b>	Citywide
<b>Cost Benefit:</b>	Pre-disaster debris management reduces damage to structures and infrastructure from flood and wind. Also, regular clean-up requirements can reduce the costs of post-disaster debris clean-up. City could also have access to the additional 5-percent cost incentive from FEMA's Public Assistance money.
<b>MITIGATION ACTION DETAILS</b>	
<b>Hazard(s) Addressed:</b>	Flooding, Tropical/Coastal Storm, Tornado, Winter Storm
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.1, 1.2, 1.3, 1.4, 1.5, 1.6; Goal 2, Objective 2.1
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Low
<b>Estimated Cost:</b>	Staff time
<b>Potential Funding Sources:</b>	Existing capital budgets; HMGP, BRIC or FMA (with very clearly articulated benefits for flood damage reduction); Virginia CFPF
<b>Lead Agency/Department Responsible:</b>	Public Works, Solid Waste
<b>Implementation Schedule:</b>	Ongoing
<b>ADDITIONAL COMMENTS</b>	
City recently purchased two new tractors for pre-event debris clearance.	

<b>POQUOSON MITIGATION ACTION 7</b>	
<b>Coordinate with public utilities, and use City resources to trim trees in the public right-of-way.</b>	
<b>BACKGROUND INFORMATION</b>	
<b>Site and Location:</b>	Citywide
<b>Cost Benefit:</b>	Benefits include reduced debris clean-up costs and increased utility service reliability.
<b>MITIGATION ACTION DETAILS</b>	
<b>Hazard(s) Addressed:</b>	Tropical/Coastal Storm, Tornadoes, Winter Storm
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.3, 1.5
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Low
<b>Estimated Cost:</b>	\$100,000, including contributions from utility providers
<b>Potential Funding Sources:</b>	Existing capital budgets, HMGP. In some cases, utilities may be eligible for some FEMA grant monies, as well.
<b>Lead Agency/Department Responsible:</b>	Public Works, utility providers; City has agreement with York County for keeping roadways clear to accommodate evacuations
<b>Implementation Schedule:</b>	Ongoing
<b>ADDITIONAL COMMENTS</b>	

**POQUOSON MITIGATION ACTION 8**

**Eliminate barriers to the orderly evacuation of citizens:**

- 1) Elevate and widen the causeway to Hampton (Wythe Creek Road);
- 2) Widen Victory Boulevard;
- 3) Continue car evacuation agreement with Langley Motor Speedway to allow citizens to park cars there prior to expected flooding; and,
- 4) Address low-lying roadways/intersections identified in Mitigation Action #5, including use of temporary flood barriers for critical resident evacuation routes and first responder access/egress.

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Wythe Creek Road and Victory Boulevard
<b>Cost Benefit:</b>	<p>These two roadways are considered critical infrastructure for the evacuation and protection of citizens in Poquoson. Wythe Creek Road floods regularly at high tide, cutting off the route and requiring all citizens to evacuate via Victory Boulevard.</p> <p>Providing a no-cost alternative for parking vehicles out of harm's way encourages people to consider the advantages and consequences of evacuating cars and people.</p>

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Flooding, Tropical/Coastal Storm, Sea Level Rise and Land Subsidence, Wildfire, Hazardous Materials Incident
<b>Goal(s) Addressed:</b>	Goal 1, Objective 1.5; Goal 3, Objectives 3.1, 3.3, 3.4
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Moderate/High – the area has relatively moderate or relatively high NRI flood risk, which includes analysis of social vulnerability.
<b>Estimated Cost to Poquoson:</b>	Wythe Creek Road - \$19.8 million Victory Boulevard - \$22.7 million
<b>Potential Funding Sources:</b>	VDOT, Hampton, York County and other partners; Virginia CFPF
<b>Lead Agency/Department Responsible:</b>	Engineering and City Manager's Office
<b>Implementation Schedule:</b>	Wythe Creek Road is scheduled for construction in 2022; Victory Boulevard widening is in the planning stages.

**ADDITIONAL COMMENTS**

The City also has emergency access roads which are normally closed but which can be linked together in case of evacuation or emergency.

<b>POQUOSON MITIGATION ACTION 9</b>	
<b>Support and maintain decal system for re-entry to the City following a disaster. Use social networking to strengthen the system.</b>	
<b>BACKGROUND INFORMATION</b>	
<b>Site and Location:</b>	Citywide
<b>Cost Benefit:</b>	Benefits accrue to: <ol style="list-style-type: none"> <li>1. property owners through reduced secondary damage (e.g., from car wakes on flooded streets); and,</li> <li>2. Police operating budgets through reduced traffic management costs, better response times and more efficient use of staff following a disaster.</li> </ol>
<b>MITIGATION ACTION DETAILS</b>	
<b>Hazard(s) Addressed:</b>	Flooding, Tropical/Coastal Storm, Tornadoes, Earthquake
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.4, 1.5; Goal 2; Goal 3, Objective 3.1
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Low
<b>Estimated Cost:</b>	\$2,500 annually
<b>Potential Funding Sources:</b>	Capital budget; DHS: HMGP 5% Initiative
<b>Lead Agency/Department Responsible:</b>	City Manager's Office; Emergency Management
<b>Implementation Schedule:</b>	Ongoing
<b>ADDITIONAL COMMENTS</b>	
Gawkers and sightseers from outside Poquoson are not cognizant of the added damage and inconvenience their visits can inflict. A low-cost decal system was put in place in 2010, and together with police presence at key entry points to the City, officials can now control re-entry.	

<b>POQUOSON MITIGATION ACTION 10</b>	
<b>Support and maintain Code Red, the City's Reverse 911 system. Prepare messages to release to citizens before and after a natural hazard event.</b>	
<b>BACKGROUND INFORMATION</b>	
<b>Site and Location:</b>	Citywide
<b>Cost Benefit:</b>	Other methods of notifying citizens require massive amounts of staff time which exceed budgetary restraints. Code Red quickly and efficiently uses existing infrastructure to notify property owners of appropriate pre- and post-disaster mitigation actions.
<b>MITIGATION ACTION DETAILS</b>	
<b>Hazard(s) Addressed:</b>	Flooding, Tropical/Coastal Storm, Tornado, Winter Storm, Earthquake, Wildfire, Hazardous Materials Incident, Drought, Extreme Heat, Pandemic Flu or Communicable Disease
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.4, 1.5; Goal 2
<b>Priority (High, Moderate, Low):</b>	High
<b>Impact on Socially Vulnerable Populations:</b>	Low
<b>Estimated Cost:</b>	\$10,000 to \$15,000
<b>Potential Funding Sources:</b>	Existing budgets; DHS: HMGP 5% Initiative
<b>Lead Agency/Department Responsible:</b>	Emergency Management
<b>Implementation Schedule:</b>	Ongoing
<b>ADDITIONAL COMMENTS</b>	
While the Code Red system is already functioning, an opportunity to use the system to urge property owners to take mitigative actions exists.	
Identification of persons with disabilities has been built into the dispatch notifications.	

**POQUOSON MITIGATION ACTION 11**

**Protect flood-prone natural resources as a buffer against sea level rise, including, but not limited to:**

- 1) Protect in perpetuity the 69 acres of natural land at the end of Poquoson Avenue donated to the City;**
- 2) Provide additional access points for the City's Blueway system, a series of canoe and kayak water trails in and around the City and Plum Tree Island; and,**
- 3) Provide opportunities for retail and residential development on land that is less prone to flooding and sea level rise, such as the Big Woods area.**

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Eastern portion of the City, especially undeveloped portions along the water.
<b>Cost Benefit:</b>	Just as damages from sea level rise are not easily quantifiable, the benefits of adjusting to sea level rise are also more abstract. These measures are relatively low in cost compared to the damages that flooding will continue to inflict in Poquoson if no adjustments are made.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Sea Level Rise and Land Subsidence, Flooding, Tropical/Coastal Storm, Landslide/Coastal Erosion
<b>Goal(s) Addressed:</b>	Goal 1, Objectives 1.2, 1.6
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Impact on Socially Vulnerable Populations:</b>	Moderate/High – the area has relatively moderate or relatively high NRI flood risk, which includes analysis of social vulnerability.
<b>Estimated Cost:</b>	<ol style="list-style-type: none"> <li>1) Existing budgets for legal and real estate costs.</li> <li>2) Access points on the Blueway may incur costs to the city as additional sites are identified. Costs would be dependent on site amenities.</li> <li>3) Staff time</li> </ol>
<b>Potential Funding Sources:</b>	Existing budgets; DCR: VRTF, L&WCF, VCWRLF; Virginia CFPF
<b>Lead Agency/Department Responsible:</b>	Parks, City Manager's Office, Planning
<b>Implementation Schedule:</b>	Ongoing



**ADDITIONAL COMMENTS**

A long-term plan of gradual adjustment begins with small steps. This action highlights the opportunity to identify additional ways to protect flood-prone areas with multiple benefits for citizens in the long- and short-term. While zoning regulations may protect land in the short-term, zoning can be altered by future officials. CRS points may be available for sub-action #1, especially for the recently protected 6 acres set aside for parks.

**POQUOSON MITIGATION ACTION 12**

**Continue to participate in coalition with Virginia Tech and others using drones for storm/event damage assessment and wildland fire management.**

**BACKGROUND INFORMATION**

<b>Site and Location:</b>	Eastern portion of the City, primarily
<b>Cost Benefit:</b>	This low-cost method of assessing damage after a storm or to assess wildfire potential in undeveloped areas has benefits for the reduction of spreading wildfire risk and the management of post-flood redevelopment.

**MITIGATION ACTION DETAILS**

<b>Hazard(s) Addressed:</b>	Sea Level Rise and Land Subsidence, Flooding, Tropical/Coastal Storm, Wildfire, Tornado, Landslide/Coastal Erosion
<b>Goal(s) Addressed:</b>	Goal 3, Objectives 3.1, 3.2, 3.3, 3.4
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Impact on Socially Vulnerable Populations:</b>	Low
<b>Estimated Cost:</b>	Staff time
<b>Potential Funding Sources:</b>	Existing budgets; DCR: VRTF, L&WCF, VCWRLF; DHS: HMGP 5% Initiative
<b>Lead Agency/Department Responsible:</b>	City Manager's Office
<b>Implementation Schedule:</b>	Ongoing

**ADDITIONAL COMMENTS**

The City has drones and trained drone operators available to implement this action.