

Office of Emergency Management

304 Albemarle Avenue
Chesapeake, Virginia 23322
(757) 382-6504
FAX (757) 382-8228

Regarding: Annual Community Rating System (CRS) Recertification for 2016,
City of Chesapeake, VA, CID 510034: CRS Activity 510
Floodplain Management Plan's Annual Progress Report on the
City of Chesapeake Hazard Mitigation Plan 2014

Date Report Prepared: November 02, 2016

Name of Community: City of Chesapeake, Virginia

Name of Plan: 2014 Hazard Mitigation Plan City of Chesapeake, Virginia

Date of Adoption of Plan: May 27, 2014

Five-Year CRS Expiration May 27, 2019

In response to the annual recertification requirements stated in the *CRS Coordinator's Manual*, edition 2013, Activity 510, Floodplain Management Planning, the City of Chesapeake must prepare the annual evaluation report on progress in implementing the mitigation actions stated in the 2014 Hazard Mitigation Plan (2014 HMP). Not only are annual evaluations required with the community's annual recertification, but also the process of conducting an annual evaluation gives the community a framework for monitoring the plan's effectiveness and the community's progress in implementing it. Failure to submit the evaluation report with the community's annual recertification will result in loss of the planning credit (i.e. FMP = 0). An annual evaluation report must be submitted to the governing body, released to the media, and made available to the public.

In accordance with the requirements the following questions are addressed:

1) How can a copy of the original plan or area analysis report be obtained?

The City of Chesapeake 2014 Hazard Mitigation Plan (HMP) includes the city's floodplain management plan and is available at the City of Chesapeake web site, below:

<http://www.cityofchesapeake.net/Assets/documents/departments/fire/em/pdf/2014-chesapeake-hazard-mitigation-plan.pdf>

Additionally, a copy is available in the Chesapeake Public Libraries and in the Fire Dept. Office of Emergency Management.

2) Describe how this evaluation report [on the 2014 HMP mitigation actions] was prepared and how it was submitted to the governing body of the City of Chesapeake and how it was released to the media and made available to the public.

In accordance with the adopted City of Chesapeake 2014 Hazard Mitigation Plan (2014 HMP), Section 8, Plan Maintenance Procedures, the Natural Event Mitigation Action Committee (NEMAC), a City Council appointed membership committee comprised on eight citizen members (five citizen members constitute a quorum) and nine city department members, and Emergency Management officials shall be responsible for determining additional implementation procedures beyond those listed within the Mitigation Action Plan. This includes integrating the Hazard Mitigation Plan into other local planning documents such as comprehensive or capital improvement plans, when appropriate. The members of NEMAC, which meets every-other month, remain charged with ensuring that the goals and strategies of new and updated local planning documents (such as Comprehensive Plans and Zoning Ordinances) are consistent with the goals and actions of the 2014 HMP, and shall not contribute to an increased level of hazard vulnerability in the City. Chesapeake shall integrate the tenets of this mitigation plan into relevant local government decision making processes or mechanisms. The 2014 HMP requires Chesapeake to incorporate existing planning processes and programs addressing flood hazard mitigation into this document by reference.

The NEMAC considers the mitigation action plans contained in the 2014 HMP during its every-other month meetings. Additionally, the following City of Chesapeake department directors or their assignees reviewed the progress on the goals and objectives of the city’s 2014 HMP which includes the floodplain management plan:

- Chesapeake Fire Dept./Office of Emergency Management
- Development and Permits
- Information Technology-GIS
- Libraries
- Public Works
- Planning Department

Upon completion of the 2016 review of the progress on the goals and objectives in the city’s 2014 HMP, Chesapeake Fire Department Fire Chief Ed Elliott sent the Annual Progress Report to the City Council for review and the same review was made available to the public via Chesapeake’s public information media resources, the Fire Dept. Office of Emergency Management web site, and the Annual Progress Report will also be filed with the minutes of the NEMAC November 2016 meeting, which are made available to the public by the City Clerk’s office.

3) Provide a review of each recommendation or action item in the action plan or area analysis report, including a statement on how much was accomplished during the previous year.

2014 HMP MITIGATION ACTIONS	Action Taken
Maintain participation in NFIP and CRS. Continue enforcement of standards in existing ordinance that meet	Completed and ongoing; completed 2015 and 2016 CRS recertification

and exceed NFIP minimum requirements	
Acquire, elevate, relocate, retrofit or flood proof structures in flood prone areas. Flood protection may include minor localized flood reduction projects, as well.	18 houses were acquired and/or elevated in Oct 01, 2015 through July 31, 2016. Five additional houses are approved for acquisition in the upcoming 2016/2017 year. Additionally, stormwater flood protection reduction projects are scheduled for numerous subdivisions in the SFHA.
I-Conduct detailed study of critical facilities relative to newly-identified repetitive flood loss areas and new FEMA 100-year floodplain elevations. Review detailed structural or facility vulnerability to flood and wind hazards using flood-frequency information and building elevation data. II- Replace structures or implement retrofits, which may include but are not limited to: installation of emergency backup power, elevation of structure or components, relocation or retrofit of building components.	Chesapeake is completing the new Public Safety building, a critical infrastructure, which meets the stated criteria. Generators were recently retrofitted to 3rd and 5th Police Precincts, and a generator was installed to back up the data center in Central Library. Last summer Chesapeake replaced a generator at the City Jail and special-ordered a fuel tank size upgrade to double the typical run-time before refueling. Chesapeake recently replaced the Animal Services Building that is storm-hardened and meets this objective. Chesapeake Facilities submitted in FY15 a \$4.025 million capital project proposal for FY18 to replace all windows and entryway glass storefront and reconfigure interior spaces in the Police and Fire HQ buildings for most efficient utilization. This project will make much less vulnerable to wind damage from storms and improve operational efficiency during emergency management evolutions.
Flow test and inspect existing City-owned and grant-funded dry hydrants annually to help maintain operability	Continues on a regular, annual maintenance schedule
Improve stormwater management infrastructure. Prepare and implement preventive maintenance schedule. Provide for replacement schedule for stormwater management and inspection equipment and vehicles, including purchases of plows for new trucks to assist with dual purpose of snow removal.	The city's Public Works and Public Utilities has a schedule of review of stormwater management infrastructure that is categorized by funded projects, unfunded projects, stormwater ops regular maintenance, and projects for capacity/study needed.
Support and maintain City's new Reverse -911 system. Prepare messages to release	The city's Everbridge and Alert system were enhanced in 2015/2016 for public outreach; there are two departments now dedicated to alerting

to citizens before and after a natural event.	citizens in advance of flooding, and a weather alert component has been added to Everbridge.
Prevent sanitary sewer inflows to the system during flood events. Smoke test public and private sanitary sewer infrastructure to determine priorities.	The Public Utilities (PU) has a goal set to smoke test 10% of its sanitary sewer system each year in order to identify defects that could lead to sanitary sewer overflows. This goal was met this past year, and PU is on track to meet the goal again this year.
Continue lease agreement and maintenance of facilities along the Dismal Swamp Canal Trail to accommodate recreational use of the floodplain.	Chesapeake Parks, Recreation and Tourism department has continued to adhere to the lease agreement as well as monitors the site daily and keeps drains and ditches clear of debris, keeps limbs, trash and other debris picked up to prevent it from becoming an issue by blocking drains/ditches or otherwise preventing the flow of runoff waters and to accommodate recreational use of the floodplain.
Continue outreach efforts through a strategically-developed Plan for Public Information (PPI) using the following seven steps: 1) Create a PPI committee 2) Assess Chesapeake's public information needs 3) Formulate message 4) Identify outreach projects to convey messages 5) Examine other public information initiatives 6) Prepare the PPI document 7) Implement, monitor and evaluate the program	PPI has not been created.
Participate in annual HRPDC Mitigation Funding Workshop (if available)	Not available
Continue to cross reference locations of manufactured homes and manufactured home parks relative to repetitive flood loss areas and new FEMA 100-year floodplains. Review their vulnerability to flood and wind hazards. Implement measures to retrofit, relocate, or acquire vulnerable units.	This action has not been undertaken.

<p>Seek and use additional revenue sources and local matching funds for mitigation planning and projects</p>	<p>Chesapeake has attained and continues to apply for grants for acquiring repetitive flood loss homes and has committed Capital Improvement Funds to mitigate flooding. Chesapeake has applied for HUD funds and other government agencies for mitigation purposes as well as it uses its emergency management grant funds to enhance its Alert and Everbridge system to warn citizens of flooding issues.</p>
<p>Develop & implement a Pre-disaster Homeowner Tree Preventive Maintenance & Hazard Awareness Program</p>	<p>This action has not been undertaken.</p>
<p>Part I: Maximize training and educational opportunities for NEMAC, City staff, elected officials, CERT members and citizen/neighborhood leaders regarding hazard mitigation, disaster preparedness and the relationship of mitigation to reduced recovery needs. Part II: Accommodate training and related support for at least two staff in the Dept. of Develop. & Permits to receive and maintain Certified Floodplain Manager (CFM) certification through the ASFPM</p>	<p>Two Development and Permits personnel and one Fire/Office of Emergency Management personnel attended EMI class E0273 Floodplain Management and Fire/OEM also took Managing the Floodplain Development through NFIP; D&P personnel will continue toward CFM certification. OEM personnel attended an additional class in NFIP & CRS to work towards CRS Coordinator status.</p>
<p>Conduct Hazardous Environmental Action Team (HEAT) program to industrial facilities, particularly hazardous facilities, to discuss hazards and mitigation alternatives</p>	<p>The HEAT Team is tasked with preventing and investigating environmental crimes such as illegal dumping of chemicals and waste, illegal transportation and/or storage of hazardous materials, chemical releases into the atmosphere and waterways, burial of hazardous materials, and failure to report chemical releases. Team members serve on the Local Emergency Planning Committee (LEPC) and help review emergency plans, hazardous materials management plans, and TIER II reports that are submitted. The Heat Team works closely with the Emergency Management Office, Department of Environmental Quality, Environmental Protection Agency and The United States Coast Guard. The program reduces the illegal handling, storage and discharge of hazardous materials, many which can</p>

	affect stormwater runoff and water quality. HEAT members are committed to educating residents and businesses on the negative impacts on the environment of illegal dumping and polluting.
--	---

4) Discuss why any objectives were not reached or why implementation is behind schedule.

- Chesapeake did not participate in annual HRPDC Mitigation Funding Workshop because it was not available.
- The PPI objective has not been implemented due to the lack of time necessary to execute the PPI, because our time has been used to implement other objectives.
- Develop & implement a Pre-disaster Homeowner Tree Preventive Maintenance & Hazard Awareness Program has not been implemented because we have worked on the other objectives and we still have three years to implement this objective.
- Continue to cross reference locations of manufactured homes and manufactured home parks relative to repetitive flood loss areas has not been undertaken because we have worked on the other objectives and we still have three years to implement this objective.

5) What are the recommendations for the new projects or revised recommendations?

The NEMAC is researching two positive floodplain actions for further consideration and future advisement: (1) A possible request from City Council for permission and funding if needed for reforestation or vegetative plantings on FEMA grant purchased properties (properties with severe repetitive loss program) for better stormwater runoff management, and (2) recalculating Chesapeake’s open space preservation areas for additional points that might have a positive impact on Chesapeake’s class for NFIP. These actions are being researched, data is being assembled by and for committee members, and will be finalized in 2017.