



Floodplain Management Services Baltimore District Studies

U.S. ARMY CORPS OF ENGINEERS

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FACT SHEET as of December 31, 2014

AUTHORIZATION: Floodplain Management Services (FPMS)

TYPE OF PROJECT: Flood Risk Management (Technical Services)

CONTRIBUTIONS TO CHESAPEAKE BAY: Directly contributes to achieving protection and restoration goals established by the 2009 Executive Order 13508 and the 2014 Chesapeake Bay Program Agreement by restoring clean water.

PROJECT PHASE: Study/technical services

CONGRESSIONAL INTEREST: PA – Sens. Casey and Toomey (PA), Rep. Platts (PA-19) and Rep. Marino (PA-10), MD – Sens. Mikulski and Cardin (MD), and Rep. Hoyer (MD-5), VA - Sens. Warner and Webb (VA), and Rep. Moran (VA-08), NY – Sens. Schumer and Gillibrand (NY), WV – Sens. Rockefeller and Manchin (WV), DC – Holmes-Norton

NON-FEDERAL SPONSORS: Multiple

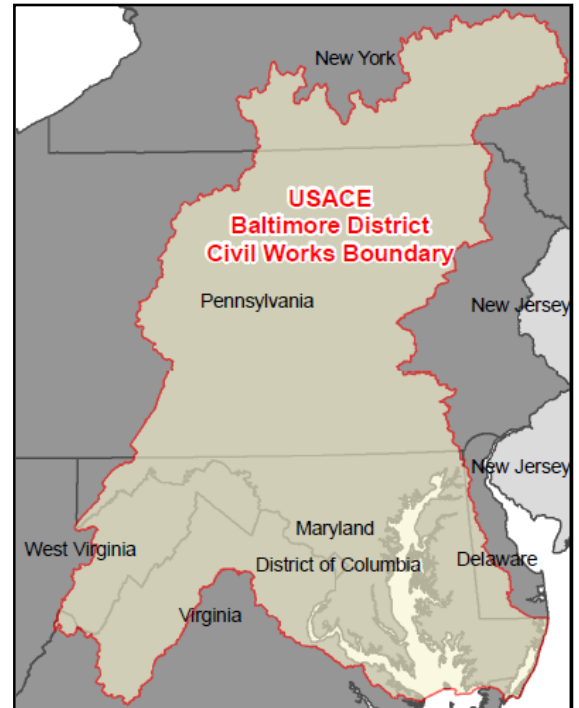
BACKGROUND:

The Floodplain Management Services (FPMS) Program authorizes USACE to conduct technical studies using either all federal funding or in combination with a voluntary contribution from a non-federal sponsor. The FPMS authority provides for technical assistance and does not have a provision for construction. Detailed plans and specifications as well as construction would have to be accomplished under other civil works authorities or by the non-Federal sponsor.

USACE has a Silver Jackets Program that establishes interagency flood risk management teams for states. The state teams have an opportunity to submit proposals to receive funding for interagency projects that will reduce flood risk. These projects are being funded through the FPMS program.

Maryland

Southern MD – There are numerous areas throughout the Southern MD region, including Charles County, St. Mary's County, Prince George's County, Calvert County and Anne Arundel County that experience flooding and property damage and are in need of assistance. The study is investigating flooding issues, evaluating alternatives and developing flood risk management plans; conducting hydraulic modeling; and conducting tasks related to FEMA's NFIP Community Rating System (CRS) Program for various communities. Using \$320,000 between FY11 and FY14, Baltimore District



Map Showing Baltimore District Civil Works Boundary for FPMS

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Page 1 of 5

completed a stormwater management plan for Cobb Island, Charles County, conducted hydraulic modeling for two streams in St. Mary's County, completed field surveys of flood-prone structures in Upper Marlboro, Prince George's County, conducted various tasks for Calvert County to assist them in participating in FEMA's CRS Program, so that resident's flood insurance rates might be discounted, and conducted surveys and flood proofing analyses for buildings in the Annapolis Historic District. In FY 15, Baltimore District will continue to assist the City of Annapolis with the evaluation of flood mitigation measures and will develop and evaluate flood risk management alternatives for Upper Marlboro, using funds voluntarily contributed by Prince George's County (\$338,500 provided in FY12 and \$63,000 in FY14). An additional \$100,000 will be needed in FY15 to continue to assist the City of Annapolis and other floodprone communities throughout Southern MD to reduce their flood risk.

Port Deposit, Cecil County, MD – Approximately \$140,000 was spent in FY13 and FY14 conducting a flood closure study for Port Deposit, MD. Approximately \$70,000 will be needed in FY15 to complete the flood closure study and develop flood inundation mapping tied to the Conowingo Dam.

Maryland Coastal Flood Workshop - In April 2014, the MD Silver Jackets Team submitted an interagency project proposal to hold a coastal flood workshop. In July 2014, the project was selected by USACE and \$30,000 in FPMS funds were provided in FY14 for the project. The workshop will be held in March 2015 and 15 MD coastal counties plus floodprone military facilities are being invited to the workshop. It is being hosted by an interagency team consisting of USACE, NWS, FEMA, MDE, MEMA and MD DNR representatives. The purpose of the workshop is to educate floodplain managers and emergency managers on products offered by the National Hurricane Center and flood risk management programs and tools offered by other Federal and state agencies

Other communities in MD – There are other MD communities that could use flood-related assistance. Baltimore District will seek funding to continue to assist various communities in MD. See Flood Inundation Mapping project under DC for a project that will affect portions of MD.

Pennsylvania

South Central PA – There are numerous communities throughout the South Central PA region that are at risk of flooding. Many of them were significantly flooded during Tropical Storm Lee in September 2011. USACE has performed technical flood risk management related analyses and developed flood risk management alternatives for various communities. Between FY10-FY14, Baltimore District used \$480,000 to conduct bridge surveys and develop and run hydrologic and hydraulic models for the Buffalo Valley Run watershed in York County; complete a flood risk management analysis for Middle Creek in Hamiltonban Twp, Adams County, PA; develop hydraulic modeling and floodplain mapping and develop flood risk management alternatives for the Borough of Tyrone Borough, Blair County; conduct an evaluation of a flood risk management concept plan for the Borough of Pine Grove, Schuylkill County; and develop flood modeling and mapping for Toms Creek, Adams County. In FY15, \$150,000 is needed to complete the Borough of Tyrone flood study and initiate flood related work with other communities throughout South Central PA.

Luzerne County, PA – Approximately \$15,000 in FPMS funds were used in FY14 to run the hydraulic model and conduct an analysis related to the Wyoming Valley levee. The technical memorandum was completed in November 2014.

Lycoming County, PA – In November 2014, the PA Silver Jackets Team submitted an interagency project proposal for a nonstructural economic analysis for three communities in Lycoming County. In

U.S. ARMY CORPS OF ENGINEERS – BALTIMORE DISTRICT

P.O. Box 1715, Baltimore, MD 21203

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Page 2 of 5

December 2014, the project was selected and \$90,000 in FPMS funds will be provided in FY15 to initiate the study.

Other communities in PA – There are other PA communities that could use flood-related assistance. Baltimore District will seek funding to continue to assist various communities in PA.

Virginia

New Alexandria/Belle View, Fairfax County, Virginia Flood Risk Management Study – During Hurricane Isabel in 2003, over 200 residential and commercial structures in the New Alexandria and Belle View communities were damaged. The communities lie within the floodplain of the Potomac River and are located approximately one mile south of the Woodrow Wilson Bridge. The Baltimore District conducted a preliminary flood damage reduction study for these communities and evaluated various flood damage reduction measures, such as levees, flood walls and flood proofing. Initial study tasks were completed with FPMS funding (\$35,000) and subsequent efforts to enhance the scope of the initial study have been funded by voluntary contributions provided by Fairfax County. The initial report was completed in February 2008, and showed that a combination levee/flood wall would be cost effective. Fairfax County expanded the study and funded the Corps (\$1,232,000) to conduct the ongoing more detailed flood risk management study to further investigate the levee/wall alternative. During FY13 and 14, USACE and Fairfax County met with residents and NPS multiple times to determine if there is a flood risk management project that should be pursued further. No consensus to date.

Huntington, Fairfax County, Virginia, Levee Design Review – In 2009, USACE completed a Flood Risk Management Study for Fairfax County that involved the preliminary design of a levee project. The project did not meet the USACE economic justification requirements so Fairfax County is designing and constructing the levee project. In FY14, Fairfax County provided \$107,300 in voluntary contributions to USACE to conduct technical review of their levee design. The review will continue into FY15.

Other communities in VA – There are other VA communities that could use flood-related assistance. Baltimore District will seek funding to continue to assist various communities in VA. See Flood Inundation Mapping project under DC for a project that will affect portions of VA.

District of Columbia

Potomac and Anacostia Rivers Flood Inundation Mapping - In April 2014, the DC Silver Jackets Team submitted an interagency project proposal to develop flood inundation mapping along the Potomac and Anacostia Rivers in DC and areas just south of DC in VA and MD. In July 2014, the project was selected by USACE and \$95,000 in FPMS funds were provided in FY14 to initiate the effort. When NWS predicts a flood at one of the stream gages, the public will be able to access the NWS and USGS websites and view maps that will display the predicted extent and depth of flooding. The key project partners are USACE, USGS, NWS, DDOE, and HSEMA.

DC Flood Fighting Exercise - In November 2014, the DC Silver Jackets Team submitted an interagency project proposal to conduct a table-top flood fighting exercise for DC. In December 2014, the project was selected by USACE and \$70,300 in FPMS funds will be provided in FY15 to initiate the effort. The goal of the exercise will be to “test” the DC Flood Emergency Manual, which is currently being updated, to ensure all of the relevant agencies understand their roles and responsibilities regarding implementing the DC and Vicinity Flood Project.

New York

Communities in NY – There are NY communities that could use flood-related assistance. Baltimore District will seek funding to assist various communities in NY.

West Virginia

Communities in WV – There are WV communities that could use flood-related assistance. Baltimore District will seek funding to assist various communities in WV.

STATUS and SCHEDULE

Southern MD

FY2014 Completed Work – Continued Upper Marlboro Flood Risk Mgmt Study and developed 2-D model; developed flood risk mgmt outreach materials for Calvert County; conducted building surveys, historical surveys and flood proofing analysis for City of Annapolis.

FY2015 Scheduled Work – Will continue to work with City of Annapolis to assist with flood mitigation efforts; will continue Upper Marlboro flood study by conducting modeling and developing alternatives; may assist other communities as needed.

South Central PA

FY2014 Completed Work – Completed the Adams County modeling and mapping study; completed Pine Grove Borough analysis; continued Tyrone Borough flood study, including stormwater mapping and alternative analysis.

FY2015 Scheduled Work – Will complete the Tyrone Borough flood study; may assist other communities as needed

Technical Services

FY2014 Completed Work – Continued the Port Deposit, MD, flood analysis; continued the Belle View/New Alexandria, VA flood risk mgmt study; completed the Wyoming Valley levee analysis

FY2015 Scheduled Work – Will continue Belle View/New Alexandria study trying to gain consensus on a project alignment; will conduct stormwater analysis and flood mapping to complete the Port Deposit study; may assist other communities as needed

Silver Jackets Interagency Projects

FY2014 Completed Work – Initiated Potomac and Anacostia Flood Inundation Mapping Project (data collection and started modeling); initiated planning effort for MD Coastal Workshop

FY2015 Scheduled Work – Continue Potomac and Anacostia Flood Inundation Mapping project; hold MD Coastal Workshop; plan for DC Flood Fighting Exercise; initiate Lycoming County nonstructural assessment

BUDGET

Southern MD

FY2014 - \$100,000 Federal, \$63,000 non-Federal

FY2015 - TBD, requested \$100,000 Federal

South Central PA

FY2014 - \$150,000 Federal, \$50,000 non-Federal

FY2015 – TBD, requested \$150,000 Federal

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Page 4 of 5

Technical Services

FY2014 - \$150,000 Federal, \$107,300 non-Federal

FY2015 – TBD, requested \$150,000 Federal

Silver Jackets Interagency Projects

FY2014 - \$125,000 Federal

FY2015 - \$160,300 Federal, \$55,000 non-Federal

COMPLETION

N/A – FPMS is an ongoing program to provide technical services to various communities.

For more information regarding the FPMS Studies, please contact Ms. Stacey Underwood, CENAB-PL-E, (410) 962-4977, or e-mail stacey.m.underwood@usace.army.mil.