Appendix A: Application Form for Grant Requests for All Categories

Virginia Department of Conservation and Recreation Virginia Community Flood Preparedness Fund Grant Program Name of Local Government: Fairfax County Category of Grant Being Applied for (check one): Capacity Building/Planning Project X Study NFIP/DCR Community Identification Number (CID) 515525 If a state or federally recognized Indian tribe, Name of tribe N/A Name of Authorized Official: Bryan J. Hill, County Excutive Signature of Authorized Official: Mailing Address (1): 12000 Government Center Parkway Mailing Address (2): Suite 552 State: VA City: Fairfax _Zip: _ 22035 Telephone Number: (703) 324-2531 Cell Phone Number: () N/A Email Address: cexbryanhill@fairfaxcounty.gov

Co	ntact Person (If different from authorized official): Craig Carinci
Ma	ailing Address (1):12000 Government Center Parkway
Ma	ailing Address (2):Suite 449
Cit	y: Fairfax State: VA zip: 22035
Te	lephone Number: () <u>N/A</u>
En	nail Address:Craig.Carinci@fairfaxcounty.gov
Is	the proposal in this application intended to benefit a low-income geographic area as defined
in	the Part 1 Definitions? Yes No _X_
Ca	tegories (select applicable project):
Pr	oject Grants (Check All that Apply)
	Acquisition of property (or interests therein) and/or structures for purposes of allowing floodwater inundation, strategic retreat of existing land uses from areas vulnerable to flooding; the conservation or enhancement of natural flood resilience resources; or acquisition of structures, provided the acquired property will be protected in perpetuity from further development.
	Wetland restoration. Floodplain restoration. Construction of swales and settling ponds.
	Living shorelines and vegetated buffers. Structural floodwalls, levees, berms, flood gates, structural conveyances. Storm water system upgrades.
	Medium and large scale Low Impact Development (LID) in urban areas. Permanent conservation of undeveloped lands identified as having flood resilience value by ConserveVirginia Floodplain and Flooding Resilience layer or a similar data driven analytic tool.
D	Dam restoration or removal.
	Stream bank restoration or stabilization.
D	Restoration of floodplains to natural and beneficial function. Developing flood warning and response systems, which may include gauge installation, to notify residents of potential emergency flooding events.

Sti	udy Grants (Check All that Apply)
×	Studies to aid in updating floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.
П	Revising other land use ordinances to incorporate flood protection and mitigation goals, standards and practices.
×	Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA). For example, a local government might conduct a hydrologic and hydraulic study for an area that had not been studied because the watershed is less than one square mile. Modeling the floodplain in an area that has numerous letters of map change that suggest the current map might not be fully accurate or doing a detailed flood study for an A Zone is another example.
П	Studies and Data Collection of Statewide and Regional Significance.
D	Revisions to existing resilience plans and modifications to existing comprehensive and hazard.
U	Other relevant flood prevention and protection project or study.
Ca	pacity Building and Planning Grants
U	Floodplain Staff Capacity.
Ö	Resilience Plan Development
	 Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans. Resource assessments, planning, strategies and development. Policy management and/or development. Stakeholder engagement and strategies.

Location of Project (Include Maps): 27 Fairfax County Watersheds

NFIP Community Identification Number (CID#):(See appendix F 515525

Is Project Located in an NFIP Participating Community?
Is Project Located in a Special Flood Hazard Area?
Flood Zone(s) (If Applicable): SFHA Zones A and AE
Flood Insurance Rate Map Number(s) (If Applicable): See spreadsheet
Total Cost of Project: \$1,200,000
Total Amount Requested \$600,000

FAIRFAX COUNTY

REGULATED FLOODPLAIN MAP UPDATES

Virginia Community Flood Preparedness Fund

FY 2022 ROUND 3 GRANT APPLICATION

CID515525_FairfaxCounty_CFPF-5 (Map Updates)

April 8, 2022



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Attachments

Attachment A- Detailed map of the study area

Attachment B- FIRMs of the study area

Attachment C- Historic flood damage images

Attachment D- Social vulnerability index score from ADAPT VA's Virginia Vulnerability Viewer

Attachment E- Approved Resilience Plan

Appendices

Appendix A – Application Form for Grant Requests for All Categories

Appendix B – Scoring Criteria for Studies Form

Appendix D – Checklist for all Categories

Executive Summary

The Fairfax County regulated floodplain mapping study will consolidate multiple flood hazard data sources into one comprehensive map for regulatory use, increase community flood risk awareness, and allow the County to integrate the impacts of climate change into its floodplain management program. To be able to complete the first phase of the study, the County is requesting 50% of the total cost of the project (\$1,200,000) or \$600,000. If the grant is awarded and the study moves forward, the County can develop preliminary HEC-RAS hydraulic models for 27 watersheds, approximately 757 stream miles (excluding the 56 stream miles that are currently being completed as part of the pilot), and advance the mapping of all floodplains 70 acres or greater in the County.

A. Scope of Work Narrative

Fairfax County regulates proposed uses and disturbances in the 100-year flood inundation area associated with open channel conveyance systems that have a contributing drainage area of 70 acres or more. The location of the base flood elevation (BFE) is required for demonstrating compliance with all applicable Federal, State, and County floodplain regulations.

There are three distinct types of regulated floodplains in Fairfax County:

- Minor floodplains include drainage areas between 70 acres and 360 acres.
- Major floodplains consist of drainage areas 360 acres or greater.
- Areas that are designated as floodplain by the National Flood Insurance Program (NFIP) are shown on the Flood Insurance Rate Maps (FIRMs) issued by the Federal Emergency Management Agency (FEMA) – generally, for areas 1 square mile (640 acres) or greater.

Currently, existing floodplain boundaries and water surface elevations are available from several sources and a significant portion of County regulated floodplain is not mapped. This missing or conflicting flood hazard data creates confusion during floodplain study development, review, and enforcement. Rather than having multiple sources for flood hazard data, the County plans to develop a comprehensive regulated floodplain map. The updated map and water surface elevations will be used to provide clear and consistent BFEs for proposed development in or adjacent to all regulated floodplains, increase community flood risk awareness, and allow for the incorporation of future climate projection conditions.

Background

Unlike FIRMs which are developed using existing land use conditions, major and minor floodplains developed by the County reflect ultimate (future) conditions. The County's floodplain ordinance requires that new and substantially improved existing dwellings located on parcels with floodplain must elevate the lowest part of the lowest floor of all living space, including basements, at least 18 inches above the applicable BFE for the property, and the dwellings must be at least 15 feet from the floodplain boundary. For development in the regulated floodplain, the floodplain water surface elevation must be computed to establish the actual floodplain boundary and a floodplain easement must typically be dedicated to the County.

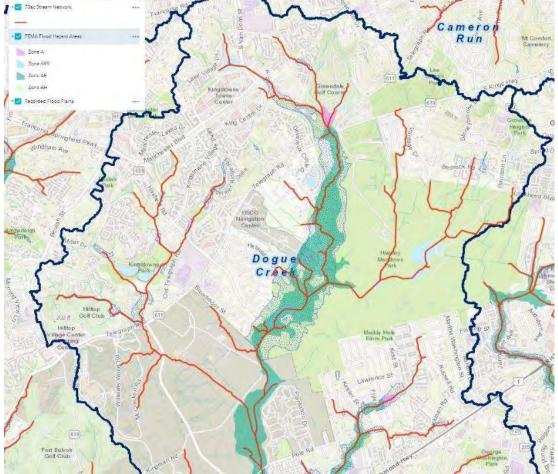
There are multiple County Geographic Information System (GIS) floodplain layers that each have their own history and uses; however, they are all referred to as floodplain and are used in the County's plan review process to flag potential construction in these areas. Available floodplain boundaries and water surface elevations come from several sources, including floodplain studies performed by the United States Geological Survey and FEMA and approved floodplain studies that have been performed by

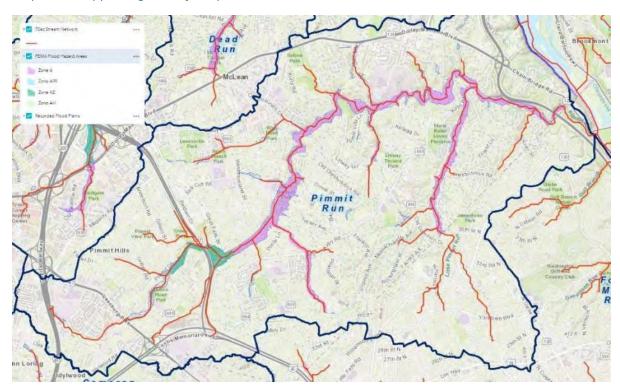
engineers in conjunction with prior land development. Floodplain information is available on the publicly accessible County Floodplain Viewer

(https://fairfaxCountygis.maps.arcgis.com/apps/webappviewer/index.html?id=c62ab5b0d13a49c99048 0e456e70e45f&mobileBreakPoint=300).

Not all County regulated floodplain is mapped. For instance, Fairfax County has older neighborhoods that developed in the 1950s and 1960s prior to modern floodplain regulations. These communities may include piped or channelized streams in minor floodplains that lack mapped floodplain boundaries and BFEs. See examples in Maps 1 and 2 below. The red 70-acre stream network line represents potential County regulated floodplain. As shown on the maps, many sections of the regulated floodplain lack recorded floodplain boundaries.

Map 1. Unmapped regulated floodplain within Dogue Creek watershed





Map 2. Unmapped regulated floodplain within Pimmit Run watershed

As the County reaches buildout conditions and large tracts of green space are no longer available for new subdivisions, much of the residential development in these older neighborhoods has shifted to lot-by-lot infill redevelopment. For residential infill development in and adjacent to unmapped regulated floodplain, the County must rely on very limited floodplain studies completed as a part of the infill plan to review and enforce floodplain regulations.

Additionally, FEMA completed a multi-year project to reexamine Fairfax County's flood zones and produce detailed digital flood hazard maps. The preliminary updated FIRMs, which reflect the flood risk based on the latest data, have been released for public review. The County held a series of virtual public meetings to provide more information on the proposed changes and respond to questions from residents.

Study Description

Fairfax County will complete modeling and mapping of the remaining 757 stream miles with County regulated floodplains in the remaining 27 designated watersheds. This study includes both updates to prior mapped floodplains and new floodplain models and mapping. Given the size and complexity of this effort, the study will be split into a pilot and two phases.

The County is in the process of completing a pilot study on three watersheds- Dogue Creek, Pimmit Run, and Little Hunting Creek (total of 56 stream miles)- to establish standard means and methods to develop the regulated floodplain map updates. The pilot study will prepare the most current terrain data for the County and develop appropriate hydrologic and hydraulic modeling of all streams with drainage areas of 70 acres or greater. The pilot study scope includes obtaining and preparing terrain data for use in the hydrologic and hydraulic (H&H) analyses, identifying data for bridges and culverts, establishing 100-year

elevations using steady-state one-dimensional modeling, and mapping the results for the three watersheds.

This grant application is for Phase I of the study to develop a preliminary HEC-RAS hydraulic model for the remaining 27 watersheds. The HEC-RAS models for each watershed will establish preliminary floodplain mapping (within RAS Mapper), flow velocities, profiles, and rating tables. Phase II of the study, which includes the final HEC-RAS model with bridges and culverts incorporated and final floodplain mapping, will be submitted as a separate study application under a future grant round.

The Phase I of the study will be completed by Atkins. The firm is a consultant with a County Basic Ordering Agreement (BOA) for Flood Mitigation and Monitoring and Dam Safety Program Services. Attachment 1 is the Request for Qualifications that the firm had to meet to be awarded this BOA.

Study Benefits

The County regulated floodplain updates will consolidate multiple flood hazard data sources into one comprehensive map for regulatory use, eliminating conflicting water surface boundaries and generating BFEs for unmapped regulated floodplains. The study will also revise and clarify various references to floodplain mapping studies in the Floodplain Ordinance, County Public Facilities Manual (PFM), and the County Code of Ordinances. Fairfax County floodplain management regulations are codified in Section 5105 of the Zoning Ordinance. The PFM details the appropriate methods and guidelines for water surface calculations and floodplain easements. Appendix A of the County code describes some of the maps and studies used to depict the areas designated as floodplain by Fairfax County. These three regulatory documents will be revised to reflect the new comprehensive County regulated floodplain map.

The study allows the County to integrate climate change into the regulated floodplains. The County is embarking on Resilient Fairfax, a formal and holistic effort to address climate adaption and resilience. The Resilient Fairfax plan will develop a climate projections report with future predicted climate conditions (https://www.fairfaxcounty.gov/environment-energy-coordination/resilient-fairfax). Data from this report can be integrated into the new or updated floodplain models to reflect anticipated future precipitation trends.

The study will also increase community flood risk awareness by mapping previously unmapped floodplain. Later phases of the study will encompass a significant public outreach program to notify residents that they are in a newly mapped floodplain, advise them on how to prepare for flooding, and share resources related to flood protection and insurance.

With 1,167,000 residents, Fairfax County is more populous than six states (Alaska, Montana, North Dakota, Rhode Island, South Dakota, Vermont, and the District of Columbia) and accounts for about 13% of the total population of Virginia. Providing comprehensive, accurate, and consistent regulated floodplain maps will benefit not only the County, but also more than a tenth of Virginia residents. The maps will help increase flood risk awareness for residents located in and adjacent to previously unmapped floodplains, developers to better incorporate flood prevention and protection techniques into their construction plans, and the County to better review and enforce its robust floodplain management regulations.

Attachment 1. Flood mitigation and monitoring and dam safety program services request for qualifications

COUNTY OF FAIRFAX DEPARTMENT OF PUBLIC WORKS & ENVIRONMENTAL SERVICES FLOOD MITIGATION AND MONITORING & DAM SAFETY PROGRAM SERVICES

REQUEST FOR QUALIFICATIONS (RFQ)

SCOPE OF WORK

The County of Fairfax, Virginia, Department of Public Works and Environmental Services (DPWES) is soliciting statements of qualifications from engineering firms to provide services on a Basic Ordering Agreement (BOA) to support Fairfax County's participation in the National Federal Insurance Program (NFIP), flood mitigation and monitoring, dam safety, and other ancillary engineering services that may be needed. These services will be required on a task order basis. The initial agreement will be established to run for a 12-month term with the option of four additional 12-month terms (up to 48 months). Pursuant to Virginia State Code, BOAs have a maximum of \$5 million per year, with no individual task order exceeding \$2.5 million. However, this contract is not anticipated to exceed a total value of \$1.0 million per year. DPWES anticipates the award of one or more BOAs to support the programs described above.

Typical tasks under this COA may include but are limited to the following services:

NFIP and Floodplain Management Services

- Perform detailed Hydrologic and Hydraulic (H&H) modeling to support floodplain delineation and analysis.
- Provide engineering and ancillary services to support the county's participation in the NFIP, Cooperating Technical Partners, and Community Rating System programs.
- Assist with various tasks related to floodplain analysis, such as Letter of Map Revision (LOMRs), Conditional LOMRs (CLOMRs), coordination with FEMA, and other FEMA and floodplain management related tasks.

Dam Safety Program Services

- Geotechnical services including provisions for an on-call geotechnical engineer with expertise in dam designs and operations.
- Detailed (H&H) analyses required for Virginia State Dam Certification submissions. Such analyses include the determination of dam breach inundation zones, and incremental damage assessment.
- Develop and conduct dam safety drills and table-top exercises.
- Perform dam inspections and monitoring.
- Perform dam piezometer monitoring and analysis.
- Perform dam emergency spillway capacity and stability and integrity analyses.
- Development of Emergency Action Plans (EAP) and the preparation of Operation and Maintenance (O&M) certificates applications for dams regulated by the state.
- Development and maintenance of response plans for areas prone to flooding such as New Alexandria.

Fairfax County, Department of Public Works & Environmental Services Flood Mitigation & Monitoring, Dam Safety Program Services March 6, 2020

Project implementation Support and General Engineering Services

- Performance of detailed land surveys, bathymetric surveys, and the preparation of elevation certificates and plats.
- · Delineation of wetlands.
- Support for the acquisition of hydrologic data, geotechnical, investigations, or other purposes.
- · AutoCAD drafting and plan preparation services.
- Modeling green infrastructure and Stormwater management facility rehabilitation and retrofit designs.
- · Acquire federal, state, and local permits required for construction.
- · Preparing and conducting presentations at public meetings during non-business hours
- Other related ancillary services.

Consultants who wish to be considered for this work must submit eight (8) hard copies copies, as well as a PDF copy on a CD of their statements of qualifications to Roz Knox, Contract Specialist, Stormwater Planning Division, Department of Public Works and Environmental Services, 12000 Government Center Parkway, Suite 449, Fairfax, Virginia 22035-0052.

The submittal must include:

- · Statements of Interest;
- GSA Standard Form 330 Part I and Part II for the primary firm and all major subconsultants; and
- List of references with current addresses and telephone numbers for recently completed projects of a similar nature.

All submissions must be complete and clearly demonstrate the capability to provide the required services. The following weighted criteria and evaluation factors will be utilized by a Selection Advisory Committee to evaluate the statement of qualifications:

Criteria No.	Criteria Description	Weight
1.	The ability and experience of firm/team to deliver work as described	25%
2.	Project teams' personnel qualifications and experience	20%
3.	Past performance history	15%
4.	Ability to meet time and budget requirements	15%
5.	Location of key project staff	10%
6,	Volume of work previously awarded by the County within the last 3	5%
7.	Recent, current, and projected workload	5%
8.	Public presentations and community coordination	5%

Fairfax County, Department of Public Works & Environmental Services Flood Mitigation & Monitoring, Dam Safety Program Services March 6, 2020

All statements of qualifications shall be delivered no later than 4:00 p.m., local prevailing time on Wednesday April 8, 2020. Statements of qualifications received after the submission deadline will not be considered. The statement of qualifications, including GSA 330 forms, shall not exceed the equivalent of thirty-five (35) pages of content (printed double-sided copies). The cover letter and binding are not included in the 35 pages.

Fairfax County is committed to paying a living wage to all qualified County employees and encourages contractors and sub-contractors involved in all County programs, services, and activities to pay a living wage to their employees.

All questions related to this solicitation should be directed to Roz Knox, Contract Specialist, of Stormwater Planning Division at rosalind.knox@fairfaxcounty.gov or 703-324-5500, TTY 711.

To request this information in an alternate format, please call Roz Knox, Contract Specialist, Stormwater Planning Division, Department of Public Works and Environmental Services at 703-324-5500, TTY 711.

B. Budget Narrative

The sections below outline the anticipated expenditures for the study including the estimated total study cost, the grant funds requested, and the corresponding match to be provided by the County.

1. Estimated Total Project Cost

The estimated total study cost is \$1,200,000. In Fairfax County, there are 812 stream miles of regulatory floodplain. The pilot studies completed in Dogue Creek, Little Hunting Creek, and Pimmit Run covered 56 stream miles. Based on these pilot studies, the estimated cost to complete the preliminary hydraulic models for the remaining stream miles is \$1,450 per mile. The total cost to complete the preliminary hydraulic models for the remaining 27 watershed (756 miles) is:

(\$1450/mile * 756 miles) = \$1,096,200 + 10% contingency = ~\$1,200,000

2. Funds Requested

The amount of funds requested from the Fund is \$600,000. This is the total amount of any grant assistance sought from the Fund. 100% of this grant will be applied to the Atkins task order to complete Phase I of the Fairfax County regulated floodplain map updates. Attachment 2 includes the task order draft proposal scopes of work describing how this funding will be used.

3. Available Funds

\$600,000 of cash funds is available in *Regulatory Program Support* under Fund 40100 Stormwater Services in the proposed Fairfax County Fiscal Year 2023 budget. See Attachment 3 for the proposed Fiscal Year 2023 County budget plan document.

4. Authorization to Request for Funding

See Attachment 4 for the Not in Package (NIP) item to the Board of Supervisors authorizing a request for funding through the grant program.

Fairfax County Atkins Draft Flood Mitigation and Monitoring & Dam Safety Basic Ordering Agreement Request for Proposal (RFP) Task Orders #Y2-02 and #Y2-03 April 4, 2022

Task Order #Y2-02: Preliminary floodplain mapping for 27 watersheds

Under this task order, Atkins will develop preliminary HEC-RAS models for the 27 County watersheds listed below. The general scope of work is similar for all watersheds, with a total estimated 757 stream miles to be modeled (draining 70 acres or more).

- Scotts/Dead/Bull Neck/Turkey¹
- 2. Cameron/Four Mile/Belle Haven
- 3. Cub/Bull
- 4. Sugarland/Horsepen/Nichol/Pond
- 5. Little Rocky/Johnny Moore/Popes Head
- 6. Difficult
- 7. Accotink
- 8. Pohick
- 9. Old Mill/Wolf/Ryans Dam/Sandy/Occoquan/Mill/Kane/High Point

Note that this is a suggested grouping and sequence. It is anticipated that the preliminary floodplain mapping for these watersheds under Task Order #Y2-02 will include watersheds listed in numbers 1-5 above and Task Order #Y2-03 include watersheds listed in 6-9 above. Each task order will have subtasks for the proposed groupings.

Background

Fairfax County has initiated a project to complete modeling and mapping of the county's regulatory floodplains in the County's 30 designated watersheds. Pilot studies for three watersheds (Dogue Creek, Little Hunting Creek, Pimmit Run) have been completed or in progress. Under this task order, Atkins will develop preliminary RAS hydraulic models for remaining 27 watersheds. The purpose of the preliminary hydraulic model development is to provide a starting point for final RAS models for these watersheds that includes all stream crossings and develops the final floodplain mapping. The following will serve to provide additional detail on the preliminary and final RAS models:

Preliminary RAS model: Automated generation of cross-sections, with Quality Control (QC) checks performed to ensure proper cross-section placement, extents, alignment, and spacing (placement checks include ensuring cross-sections are not located on top of roadways, extent and alignment checks include making sure the cross-section contains the estimated 500-year flow prism and is perpendicular to the flow prism, and spacing checks include making sure that stream meander patterns are adequately represented). The County will provide a HMS model with flows to be used for this RAS version. Flows will be provided for the 1-year, 2-year, 10-

Note Run, Creek, or Branch have been omitted from the watershed names for brevity.

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year, 100-year, and 500-year events and used to establish water-surface elevation profiles and preliminary floodplain mapping (within RAS Mapper) for these events.

<u>Final RAS model</u>: This version will incorporate all stream crossings into preliminary RAS models previously reviewed and approved by the County. Additionally, for areas where there piped systems within the floodplain, the model will utilize headwater elevations obtained from an analysis of the piped system where the open channel system enters and exits the piped system. The final RAS version will be used be used to create final 100-year, 500-year floodplain mapping and associated products for the watershed.

Note: This RFP is only for preliminary RAS models, information on final RAS models is only provided for reference.

Subtasks

- The County will provide the following data to enable the development and testing of the preliminary version of HEC-RAS models;
 - a. Clipped 2018 Terrain data (Lidar raster layers) for all watersheds.
 - b. GIS layers derived from Arc Hydro to be used in configuring the geometric data for the RAS Model. This includes 70-acre stream centerlines, confluence nodes, stream crossing point layer along with any other data needed.
 - c. Final version of the configured HMS Models.

Atkins will review data provided for the County to ensure it is complete and will allow development of the preliminary RAS models detailed previously.

- 2. Atkins will utilize reach and river naming conventions in RAS developed as part of Task Order #Y1-05 (Little Hunting Creek preliminary floodplain mapping) to ensure consistency between the reach identifiers used in HMS and Arc Hydro. Naming conventions should allow users to efficiently locate flows used in RAS in the HMS models and then determine the relevant Arc Hydro elements to establish how hydrologic parameters in HMS were estimated.
- 3. Atkins will develop preliminary RAS models for the watersheds as detailed previously.
- 4. Atkins will use the HMS model provided by the county to assign flows in the RAS flow editor and impose normal depth as downstream boundary conditions.
- Atkins will produce preliminary flood inundation maps and velocity maps in RAS Mapper for all profiles to ensure that the overall results are reasonable, and the cross-sections used in modeling the reach are extended sufficiently to capture the 500-year floodplain limits.

The final deliverables from this task would be a hydraulic model for the each watershed with brief documentation of the reaches modeled and naming convention.

Schedule

Atkins will provide a schedule for each task order showing when work will be initiated and completed for each watershed.

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Fund 40100: Stormwater Services

Mission

To develop and maintain a comprehensive watershed and infrastructure management program to protect property, health, and safety; to enhance the quality of life; and to preserve and improve the environment for the benefit of the public. To plan, design, construct, operate, maintain, and inspect stormwater infrastructure; perform environmental assessments through coordinated stormwater and maintenance programs in compliance with all government regulations utilizing innovative techniques, customer feedback and program review; and to be responsive and sensitive to the needs of the residents, customers, and public partners.

Focus

Stomwater Services are essential to protect public safety, preserve property values and support environmental mandates such as those aimed at protecting the Chesapeake Bay and the water quality of other local jurisdictional waterways. Projects in this fund include repairs to stormwater infrastructure, measures to improve water quality such as stream stabilization, rehabilitation, safety upgrades of state regulated dams, repair and rehabilitation of underground pipe systems, surface channels, flood mitigation, site retrofits and best management practices (BMP), and other stormwater improvements.

The Board of Supervisors approved a special service district to support the Stormwater Management Program as part of the FY 2010 Adopted Budget Plan. This service district provides a dedicated funding source for both operating and capital project requirements by levying a service rate per \$100 of assessed real estate value, as authorized by Code of Virginia Ann. Sections 15.2-2400. Since FY 2010, staff has made significant progress in the implementation of watershed master plans, public outreach efforts, stormwater monitoring activities, water quality and flood mitigation project implementation and operational maintenance programs related to existing storm drainage infrastructure including stormwater conveyance, and regulatory requirements.

A rate of \$0.0400 per \$100 of assessed value has been estimated to be required to fully support the stormwater program in the future; however, staff is currently evaluating the long-term requirements for the program to address the growth in inventory and other community needs. Some of the additional community needs under evaluation include debt service to support the Board's approval of the dredging of Lake Accotink, the anticipation of additional flood mitigation requirements, and strengthening the role and financial support for the implementation of stormwater requirements associated with Fairfax County Public Schools sites under renovation. This enhanced program may require incremental changes to the rate over time and may result in a higher rate to fully support the program. Staff continues to evaluate these requirements, as well as the staffing to support them, and analyze the impact of increased real estate values and revenue projections.

One of the recent initiatives being funded by the Stormwater Fund is the new Public Works complex which will consolidate functions and operations and maximize efficiencies between the Stormwater and Wastewater Divisions. Stormwater operations are currently conducted from various locations throughout the County, and a new colocation of both Stormwater and Wastewater staff will provide efficiencies and sharing of resources. Another initiative in progress is the planned dredging of Lake Accotink. Lake Accotink is a 55-acre lake surrounded by managed conservation areas, wetlands, deciduous and evergreen forests, and historic and prehistoric sites. Over 300,000 patrons visit the park annually to enjoy a variety of facilities and activities that vary with the season. Sediment from the upstream areas of the watershed has continued to be deposited in Lake Accotink over the years filling in the lake and limiting recreational use. Estimates for the cost of dredging including sediment disposal are still under review. Staff has identified the option of a low interest loan via the Virginia Clean Water Revolving Loan Fund (VCWRLF) as the preferred funding mechanism to fund the dredging project costs. The Stormwater fund will pay the future debt costs.

While staff continues to further evaluate the impact of recent initiatives and the long-term requirements for the Stormwater Program, the FY 2023 rate will remain the same as the FY 2022 Adopted Budget Plan level of \$0.0325 per \$100 of assessed value. However, based on capital project costs and projected revenues, it is anticipated that in the next several years, incremental rate increases will be required based on continued growth of stormwater facilities and infrastructure that must be inspected and maintained by the County, the implementation of flood mitigation projects, and additional requirements in the forthcoming Municipal Separate Storm Sewer System (MS4) Permit. On an annual basis, staff will continue to evaluate the program, analyze future requirements, and develop Stormwater operational and capital resource needs.

The FY 2023 levy of \$0.0325 will generate \$94,393,055, supporting \$27,113,315 for staff and operational costs; \$65,879,740 for capital project implementation including, infrastructure reinvestment, regulatory requirements, dam safety, and contributory funding requirements; and \$1,400,000 transferred to the General Fund to partially offset central support services such as Human Resources, Purchasing, Budget and other administrative services supported by the General Fund, which benefit this fund.

Stormwater Services Operational Support

Stormwater Services operational support includes funding for staff salaries, Fringe Benefits, and Operating Expenses for all stormwater operations. In addition, Fund 40100 includes positions related to transportation operations maintenance provided by the Maintenance and Stormwater Management Division. Beginning in FY 2023, all funding for the transportation related salary expenses and equipment previously supported by Agency 87, Unclassified Administrative Expenses - Public Works Programs will be supported by capital projects in Fund 30010, General Construction and Contributions, as they do not qualify for expenses related to the stormwater service district. The transfer of funding to Fund 30010, General Construction and Contributions, will provide more transparency and the carryforward of balances at year-end.

Fund 40100 also supports the Urban Forestry Management Division (UFMD). The UFMD was established to mitigate tree loss and maximize tree planting during land development, enforce tree conservation requirements and monitor and suppress populations of Gypsy Moth, Emerald Ash Borer, and other forest pests. The division also implements programs needed to sustain the rich level of environmental, ecological, and socio-economic services provided by the County's tree canopy. The UFMD is aligned with the mission of Stormwater Services as it strives to "improve water quality and stormwater management through tree conservation." Tree canopy and forest soils function to mitigate significant levels of water pollution and stormwater runoff.

FY 2023 Stormwater Capital Project Support

Conveyance System Inspections, Development and Rehabilitation

The County owns and operates approximately 1,500 miles of underground stormwater pipes and improved channels with an estimated replacement value of over one billion dollars. The County



FY 2023 Fairfax County Advertised Budget Plan (Vol. 2) - 234

began performing internal inspections of the pipes in FY 2006. The initial results showed that approximately 5 percent of the pipes exhibit conditions of failure, and an additional 5 percent required maintenance or repair. MS4 Permit regulations require inspection and maintenance of these 1,500 miles of existing conveyance systems, 69,000 stormwater structures, and a portion of the immediate downstream channel at the 7,000 regulated pipe outlets. Acceptable industry standards indicate that one dollar reinvested in infrastructure saves seven dollars in the asset's life and 70 dollars if asset failure occurs. Once the initial internal inspections are complete, the goal of this program is to inspect pipes on a 20-year cycle and rehabilitate pipes and improve outfall channels before total failure occurs. Total funding in the amount of \$9.0 million is included for Conveyance System Inspections, Development and Rehabilitation in FY 2023, including \$2.0 million for inspections and development and \$7.0 million for rehabilitation and outfall restoration.

Dam Safety and Facility Rehabilitation

There are approximately 7,900 stormwater management facilities in service that range in size from small rain gardens to large state regulated flood control dams. The County is responsible for inspecting approximately 5,500 privately-owned facilities and maintaining over 2,400 County owned facilities. This inventory increases annually and is projected to continually increase as new development and redevelopment sites occur in the County. This initiative also includes the removal of sediment that occurs in both wet and dry stormwater management facilities to ensure that



adequate capacity is maintained to treat the stormwater. The program results in approximately 50 projects annually that require design and construction management activities as well as contract management and maintenance responsibilities. This program maintains the structures and dams that control and treat the water flowing through County owned facilities. This program improves dam safety by supporting annual inspections of 20 state-regulated dams and the Huntington Levee and by developing Emergency Action Plans required by the state. The Emergency Action Plans are updated annually. In addition, these plans include annual emergency drills and exercises, and flood monitoring for each dam. Total funding in the amount of \$15.0 million is included in FY 2023, including \$5.0 million for maintenance and \$10.0 million for rehabilitation.

Stormwater/Wastewater Facility

This project will provide funding for a Stormwater/Wastewater Facility which will consolidate functions and operations and maximize efficiencies between the Stormwater and Wastewater Divisions. Currently, Stormwater operations are conducted from various locations throughout the County, with the majority of staff located at the West Drive facility. Facilities for field maintenance operations and for field/office-based staff are inadequate and outdated for the increased scope of the stormwater program, and inadequate to accommodate future operations. This project is currently in design with construction anticipated to begin in early 2022. The facility is financed by EDA bonds with the Stormwater Services Fund and Wastewater Fund supporting the debt service. Funding in the amount of \$4.2 million is included in FY 2023 to support the second year of debt service for the Stormwater/Wastewater Facility.

Emergency and Flood Response Projects

This program supports flood control projects for unanticipated flooding events that impact storm systems and structural flooding. The program provides annual funding for scoping, design, and construction activities related to flood mitigation projects. Funding in the amount of \$7.0 million is included for the Emergency and Flood Response Projects in FY 2023.

Enterprise Asset Management-Work Order System

This project will provide funding for the transition from an Enterprise Asset Management (EAM) system to a more functional Asset Management Program (AMP). This funding will support the acquisition of software, servers and consultant services to migrate asset management and related work order management into the new system. The current system tracks assets, inspections, daily work management and associated contractor costs. Features of the replacement system include geographic information system (GIS) integration and field mobility. The Department of Public Works and Environmental Services (DPWES) Information Technology staff have collaborated with the Stormwater Management and the Wastewater Management staff to promote interagency capabilities, optimize performance, and improve system lifecycle management for the new system. This new system will meet the future expectations for both divisions and optimize service delivery for DPWES. Funding in the amount of \$1.4 million is included in Capital Projects and an amount of \$800,000 is included in Operating Expenses for this project in FY 2023.

Stormwater-Related Contributory Program

Contributory funds are provided to the Northern Virginia Soil and Water Conservation District (NVSWCD) and the Occoquan Watershed Monitoring Program (OWMP). The NVSWCD is an independent subdivision of the Commonwealth of Virginia that provides leadership in the conservation and protection of Fairfax County's soil and water resources. It is governed by a fivemember Board of Directors - three members are elected every four years by the voters of Fairfax County and two members are appointed by the Virginia Soil and Water Conservation Board. Accordingly, the work of NVSWCD supports many of the environmental goals established by the Board of Supervisors. The goal of the NVSWCD is to continue to improve the quality of the environment and general welfare of the citizens of Fairfax County by providing them with a means of dealing with soil, water conservation and related natural resource problems. It provides County agencies with comprehensive environmental evaluations for proposed land use changes with particular attention to the properties of soils, erosion potential, drainage, and the impact on the surrounding environment. NVSWCD has consistently been able to create partnerships and leverage state, federal and private resources to benefit natural resources protection in Fairfax County, FY 2023 funding of \$0.6 million is included in Fund 40100 for the County contribution to the NVSWCD.

The OWMP and the Occoquan Watershed Monitoring Laboratory (OWML) were established to ensure that water quality is monitored and protected in the Occoquan Watershed. Given the many diverse uses of the land and water resources in the Occoquan Watershed (agriculture, urban residential development, commercial and industrial activity, water supply, and wastewater disposal), the OWMP plays a critical role as the unbiased interpreter of basin water quality information. FY 2023 funding of \$0.2 million is included in Fund 40100 for the County contribution to the OWMP.

Stormwater Allocation to Towns

On April 18, 2012, the State Legislature passed SB 227, which entitles the Towns of Herndon and Vienna to all revenues collected within their boundaries by Fairfax County's stormwater service district. An agreement was developed for a coordinated program whereby the Towns remain part of the County's service district and the County returns 25 percent of the revenue collected from properties within each town. This allows for the Towns to provide services independently such as

maintenance and operation of stormwater pipes, manholes, and catch basins. The remaining 75 percent remains with the County and the County takes on the responsibility for the Towns' Chesapeake Bay Total Maximum Daily Load (TMDL) requirements as well as other TMDL and MS4 requirements. This provides for an approach that is based on watersheds rather than on jurisdictional lines. Funding in the amount of \$1.0 million is included for the Stormwater Allocations to Towns project in FY 2023.

Regulatory Program

The County is required by federal law to operate under the conditions of a state issued MS4 Permit. Stormwater staff annually evaluates funding required to meet the increasing federal and state regulatory requirements pertaining to the MS4 Permit, and State and Federal mandates associated with controlling water pollution delivered to local streams and the Chesapeake Bay. The MS4 Permit allows the County to discharge stormwater from its stormwater systems into state and federal waters. The County currently owns and/or operates approximately 15,000 outfalls, and 7,000 of these outfalls are regulated outfalls governed by the permit. The current permit was issued to the County in April 2015 and expired in April 2020. The County is operating under an administrative continuance until a new permit is issued. The permit requires the County to document the stormwater management facility inventory, enhance public outreach and education efforts, increase water quality monitoring efforts, provide stormwater management and stormwater control training to all appropriate County employees. The permit requires the County to implement sufficient stormwater projects that will reduce the nutrients and sediment to comply with the Chesapeake Bay and local stream TMDL requirements. Funding in the amount of \$4.0 million is included for the Stormwater Regulatory Program in FY 2023,

Stream and Water Quality Improvements

This program funds water quality improvement projects necessary to mitigate the impacts to local streams and the Chesapeake Bay resulting from urban stormwater runoff. This includes water quality projects such as construction and retrofit of stormwater management ponds, implementation of green stormwater infrastructure facilities, stream restoration, and water quality projects identified in the completed Countywide Watershed Management Plans. These projects will aid in the reduction of



pollutants and improve water quality in county streams that are considered to be in fair to very poor condition and likely do not meet CWA water quality standards. In addition, Total Maximum Daily Load (TMDL) requirements for local streams and the Chesapeake Bay are the regulatory drivers by which pollutants entering impaired water bodies must be reduced. The Chesapeake Bay TMDL was established by the EPA and requires that MS4 communities as well as other dischargers implement measures to significantly reduce the nitrogen, phosphorous and sediment loads in waters that drain to the Chesapeake Bay by 2025. MS4 Permit holders must achieve 35 percent of the required reductions within the current five-year permit cycle and 60 percent of the required reductions in the

next five-year permit cycle. In addition, compliance with the Chesapeake Bay TMDL requires that the County undertake construction of new stormwater facilities and retrofit existing facilities and properties. The EPA continually updates the Chesapeake Bay compliance targets and credits. It is anticipated that the changes to the assigned targets as well as how projects are credited will likely impact future compliance requirements. In addition to being required to meet the Chesapeake Bay TMDL targets, the current MS4 Permit requires the County to develop and implement action plans to address local impairments. Most of the 1,900 watershed management plan projects contribute toward achieving the Chesapeake Bay and local stream TMDL requirements. Funding in the amount of \$23.5 million is included for Stream and Water Quality Improvements in FY 2023.

Organizational Chart



*Denotes functions that are included in both Fund 30010, General Construction and Contributions, and Fund 40100, Stormwater Services.

Budget and Staff Resources

Category	FY 2021 Actual	FY 2022 Adopted	FY 2022 Revised	FY 2023 Advertised
FUNDING				
Expenditures:				
Personnel Services	\$20,448,442	\$22,615,643	\$22,813,269	\$24,580,634
Operating Expenses	3,919,893	3,182,636	3,389,603	4,010,636
Capital Equipment	1,077,511	782,000	1,887,143	652,000
Capital Projects	50,984,399	61,600,414	242,012,718	65,879,740
Subtotal	\$76,430,245	\$88,180,693	\$270,102,733	\$95,123,010
Less:				
Recovered Costs	(\$1,832,157)	(\$2,129,955)	(\$2,129,955)	(\$2,129,955)
Total Expenditures	\$74,598,088	\$86,050,738	\$267,972,778	\$92,993,055
AUTHORIZED POSITIONS/FULL-TIME	E EQUIVALENT (FTE)			
Regular	202 / 202	200 / 200	200 / 200	208 / 208

FY 2023 Funding Adjustments

The following funding adjustments from the <u>FY 2022 Adopted Budget Plan</u> are necessary to support the FY 2023 program:

Employee Compensation

\$1,214,199

An increase of \$1,214,199 in Personnel Services includes \$850,684 for a 4.01 percent market rate adjustment (MRA) for all employees and \$363,515 for performance-based and longevity increases for non-uniformed merit employees, both effective July 2022.

Other Post-Employment Benefits

(\$106,403)

A decrease of \$106,403 in Personnel Services reflects required adjustments associated with providing Other Post-Employment Benefits (OPEBs) to retirees, including the Retiree Health Benefits Subsidy. For more information on Other Post-Employment Benefits, please refer to Fund 73030, OPEB Trust, in Volume 2 of the FY 2023 Advertised Budget Plan.

New Positions \$885,195

An increase of \$885,195 including Personnel Services of \$857,195 and Operating Expenses of \$28,000 is necessary to fund requirements associated with 8/8.0 FTE new positions, including 1/1.0 Engineering Technician III, 1/1.0 FTE Planner III, 1/1.0 FTE Project Manager I, 1/1.0 FTE Senior Engineering Inspector, 1/1.0 FTE Senior Engineer III, and 3/3.0 FTE Senior Maintenance Workers. The Engineering Technician III position will support address the increased workload of permit required pond inspections and maintenance. The Planner III position will review and provide needed stormwater expertise, advanced technical analysis, support and recommendations on planning and development efforts during planning, pre-zoning and rezoning processes. The Project Manager I position will support the Tree Preservation and Planting Program and manage projects that support the tree planting goals of Virginia's Final Phase III Watershed Implementation Plan. The projects will be geared towards increasing tree canopy through street and landscape tree plantings, afforestation and reforestation, and assisting with outreach and education programs. The Senior Engineering Inspector position will be responsible for reviewing erosion and sediment control plans, reviewing project designs, understanding job specifications, inspecting County stormwater infrastructure, updating work orders and keeping a daily log of work performed on construction sites. The Senior Engineer III position will initiate flood mitigation projects, coordinate with property owners to address their flooding concerns, and execute flood mitigation project design and implementation services. The three Senior Maintenance Worker positions will form an additional crew that will be deployed into the field to perform maintenance on the storm drainage system throughout the County.

Asset Management Program

\$800,000

\$4,279,326

An increase of \$800,000 in Operating Expenses will support a new Asset Management Program (AMP). Funding will support the acquisition of software, servers, and consultant services to migrate asset management and related work order management into the new system. This new system will meet the future expectations for both Stormwater and Wastewater divisions and optimize service delivery for the Department of Public Works and Environmental Services.

Capital Equipment (\$130,000)

Funding of \$652,000 in Capital Equipment, a decrease of \$130,000 from the FY 2022 Adopted Budget Plan, is included primarily associated with replacement equipment that has outlived its useful life and is critical to stormwater services activities. Replacement equipment includes; \$390,000 to replace two dump trucks that support all maintenance and emergency response programs and \$40,000 to replace three equipment trailers that support all maintenance and emergency response programs in transporting construction materials, light duty and snow removal equipment. New equipment includes \$222,000 for the purchase of three new pickup trucks and one new utility truck to support the new positions in FY 2023.

Capital Projects

Funding of \$65,879,740 in Capital Projects, an increase of \$4,279,326 from the FY 2022 Adopted Budget Plan, has been included in FY 2023 for priority stormwater capital projects.

Changes to FY 2022 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2022 Revised Budget Plan since passage of the FY 2022 Adopted Budget Plan. Included are all adjustments made as part of the FY 2021 Carryover Review, FY 2022 Mid-Year Review, and all other approved changes through December 31, 2021:

Carryover Adjustments

\$182.312.873

As part of the FY 2021 Carryover Review, the Board of Supervisors approved funding of \$182,312,873 based on the carryover of unexpended project balances in the amount of \$179,413,809 and a net adjustment of \$2,899,064. This adjustment includes the carryover of \$1,312,110 in operating and capital equipment encumbrances, an increase of \$197,626 to Personnel Services to support a one-time compensation adjustment of \$1,000 for merit employees and \$500 for non-merit employees to be paid no later than November 2021, and an increase to capital projects of \$1,389,328. The adjustment to capital projects is based on the appropriation of the remaining operational savings of \$783,662, higher than anticipated revenues of \$304,634, revenues of \$203,600 collected through the land development process that will support tree preservation and planting projects in FY 2022, revenues of \$44,841 associated with dam and facility maintenance projects, miscellaneous revenues in the amount of \$45,652, and the appropriation of \$6,939 from the ending balance that was due to an FY 2021 audit adjustment.

Mid-Year Adjustments

(\$1,555)

As part of the FY 2022 Mid-Year Review, the Board of Supervisors approved a decrease of \$1,555 due to an FY 2021 audit adjustment.

Position Detail

The FY 2023 Advertised Budget Plan includes the following positions:

THE OWNER WHEN	WATER SERVICES - 208 Positions		
	Administration (10 positions)		5 4 4 4 4 4
1	Director, Maintenance and SW	1	Safety Analyst I
1	HR Generalist II	1	Administrative Assistant IV
1	HR Generalist I	4	Administrative Assistants III
1	Safety Analyst II		
T - Dire	ector's Office/Stormwater (1 position)		
1	Network/Telecom, Analyst I		
Finance	- Wastewater and Stormwater (4 positions)		
1	Financial Specialist IV	1	Financial Specialist I
1	Financial Specialist II	1	Administrative Assistant III
Contrac	ting Services/Material Support (5 positions)		
1	Material Mgmt, Specialist III	1	Financial Specialist II
2		1	Inventory Manager
Dam Sa	fety and Maintenance Projects/Projects and	LID/Inspecti	on and Maintenance (19 positions)
1	Public Works-Env. Serv. Manager	5	Engineering Technicians III [+1]
1	Engineer IV	2	Engineering Technicians II
1	Senior Engineer III	1	Project Manager II
3	Engineers III	2	SECTION AND ADDRESS OF THE PROPERTY OF THE PRO
1	Ecologist III	1	Assistant Project Manager
1	Ecologist II		
Field O	perations (74 positions)		
2	Env. Services Supervisors	3	Masons
1	Public Works-Env. Serv. Manager	1	Vehicle Maintenance Coordinator
2	Public Works-Env. Bus. Operations	5	Engineering Technicians III
2	Public Works-Env. Serv. Specialists	2	Engineering Technicians II
8	Senior Maintenance Supervisors	1	Carpenter II
5	Maintenance Supervisors	2	Equipment Repairers

ield O	perations		
2	Maintenance Crew Chiefs	1	Welder II
15	Senior Maintenance Workers [+3]	1	Welder I
10	Heavy Equipment Operators	1	Trades Supervisor
10	Motor Equipment Operators		
Stormy	vater Infrastructure Branch (16 positions)		
1	Public Works-Env. Serv. Manager	1	Senior Engineering Inspector [+1]
3	Engineers IV	2	Engineering Technicians II
2	Senior Engineers III [+1]	2	Engineering Technicians I
4	Engineers III	1	Project Manager I
Transp	ortation Infrastructure Branch (7 positions)		
1	Engineer V	3	Project Managers I
1	Engineer IV	1	Engineering Technician II
1	Project Manager II		2
Stormy	rater Planning Division (56 positions)		
1	Director, Stormwater Planning	1	Emergency Mgmt, Specialist III
1	Engineer V	1	Planner IV
4	Engineers IV	1	Planner III [+1]
1	Senior Engineer III	2	Landscape Architects III
8	Engineers III	1	Engineering Technician III
5	Project Managers II	1	Management Analyst II
2	Project Managers I	2	Code Specialists II
4	Ecologists IV	1	Financial Specialist II
5	Ecologists III	1	Financial Specialist I
3	Ecologists II	1	Contract Specialist II
2	Ecologists I	1	Assistant Contract Specialist
3	Project Coordinators	3	Administrative Assistants III
1	Public Works-Env. Serv. Manager	170	
Urban I	Forestry (16 positions)		
1	Director, Urban Forestry Division	3	Urban Foresters I
1	Urban Forester IV	1	Project Manager I [+1]
4	Urban Foresters III	1	Administrative Assistant II
5	Urban Foresters II		7-275-3078-707-0078-0079
	Denotes New Position(s)		

Performance Measurement Results

The objective to receive no MS4 Permit violations related to inspection and maintenance of public and private stormwater management facilities was met in FY 2019, FY 2020, and FY 2021. It is expected that this objective will also be met in FY 2022 and FY 2023. The objective to update 100 percent of the Stormwater emergency action plans was met in prior years. It is expected that this trend will continue in both FY 2022 and FY 2023. Lastly, the objective to keep 100 percent of the commuter facilities operational for 365 days was met in prior years. It is expected that this goal will be met in FY 2022 and FY 2023.

Indicator	FY 2019 Actual	FY 2020 Actual	FY 2021 Estimate	FY 2021 Actual	FY 2022 Estimate	FY 2023 Estimate
MS4 permit violations received	0	0	0	0	0	0
Percent of Emergency Action Plans current	100%	100%	100%	100%	100%	100%
Percent of commuter facilities available 365 days per year	100%	100%	100%	100%	100%	100%

A complete list of performance measures can be viewed at https://www.fairfaxcounty.gov/budget/fy-2023-advertised-performance-measures-pm

FUND STATEMENT

Category	FY 2021 Actual	FY 2022 Adopted Budget Plan	FY 2022 Revised Budget Plan	FY 2023 Advertised Budget Plan
Beginning Balance	\$78,402,156	\$6,939	\$90,244,247	\$0
Revenue:				
Stormwater Service District Levy	\$85,394,610	\$87,175,738	\$87,175,738	\$94,393,055
Sale of Bonds ¹	0	0	88,000,000	0
Stormwater Local Assistance Fund (SLAF) Grant ²	1,876,476	0	3,596,793	0
Tree Preservation/Planting Fund ³	203,600	0	0	0
Miscellaneous	90,493	0	81,000	0
Total Revenue	\$87,565,179	\$87,175,738	\$178,853,531	\$94,393,055
Total Available	\$165,967,335	\$87,182,677	\$269,097,778	\$94,393,055
Expenditures:				
Personnel Services ⁴	\$20,448,442	\$22,615,643	\$22,813,269	\$24,580,634
Operating Expenses	3,919,893	3,182,636	3,389,603	4,010,636
Recovered Costs	(1,832,157)	(2,129,955)	(2,129,955)	(2,129,955)
Capital Equipment	1,077,511	782,000	1,887,143	652,000
Capital Projects ⁴	50,984,399	61,600,414	242,012,718	65,879,740
Total Expenditures	\$74,598,088	\$86,050,738	\$267,972,778	\$92,993,055
Transfers Out:				
General Fund (10001) ⁵	\$1,125,000	\$1,125,000	\$1,125,000	\$1,400,000
Total Transfers Out	\$1,125,000	\$1,125,000	\$1,125,000	\$1,400,000
Total Disbursements	\$75,723,088	\$87,175,738	\$269,097,778	\$94,393,055
Ending Balance ^{6,7}	\$90,244,247	\$6,939	\$0	\$0
Tax Rate Per \$100 of Assessed Value	\$0.0325	\$0.0325	\$0.0325	\$0.0325

In FY 2022, Economic Development Authority (EDA) Bonds were issued to support the construction of a Stormwater/Wastewater facility to consolidate functions and operations and maximize efficiencies between the Stormwater and Wastewater Divisions.

Represents Virginia Department of Environmental Quality (VDEQ) Stormwater Local Assistance Fund (SLAF) grants which support stream and water quality improvement projects. An amount of \$1,876,476 was received in FY 2021 and an amount of \$3,596,793 is anticipated in FY 2022 and beyond.

³ Reflects revenues collected through the land development process that will support tree preservation and planting projects in FY 2022.

In order to account for revenues and expenditures in the proper fiscal year, audit adjustments were reflected as an increase of \$1,555.35 to FY 2021 Personnel Services expenditures to record expenditure accruals and an increase of \$389,278.17 to FY 2021 Capital Projects expenditures to record expenditure accruals. This impacted the amount carried forward resulting in a decrease of \$389,278.17 to the FY 2022 Revised Budget Plan. The projects affected by this adjustment were 2G25-006-000, Stormwater Regulatory Program, SD-000031, Stream & Water Quality Improvements, and SD-000033, Dam Safety and Facility Rehabilitation, The Annual Comprehensive Financial Report (ACFR) reflects all audit adjustments in FY 2021. Details of the audit adjustments were lound in Attachment VI of the FY 2022 Mid-Year Review.

⁵ Funding in the amount of \$1,400,000 is transferred to the General Fund to partially offset central support services supported by the General Fund, which benefit Fund 40100. These indirect costs include support services such as Human Resources, Purchasing, Budget and other administrative services.

[©] Capital projects are budgeted based on the total project costs. Most projects span multiple years, from design to construction completion. Therefore, funding for capital projects is carried forward each fiscal year, and ending balances fluctuate, reflecting the carryover of these funds.

⁷ The FY 2022 Adopted Budget Plan ending balance of \$6,939 was due to an adjustment made to FY 2020, and it was adjusted as part of the FY 2021 Carryover Review.

SUMMARY OF CAPITAL PROJECTS

Project	Total Project Estimate	FY 2021 Actual Expenditures	FY 2022 Revised Budget	FY 2023 Advertised Budget Plan
Conveyance System Inspection/Development (2G25-028-000)	\$13,725,000	\$1,547,185.84	\$4,734,379.98	\$2,000,000
Conveyance System Rehabilitation (SD-000034)	65,034,135	6,858,021.91	10,922,648.48	7,000,000
Dam & Facility Maintenance (2G25-031-000)	30,194,841	5,511,833.19	7,422,312.42	5,000,000
Dam Safety and Facility Rehabilitation (SD-000033)	62,576,104	5,838,539.60	12,227,774.80	10,000,000
Debt Service for SW/WW Facility (2G25-117-000)	9,179,000	0.00	5,000,000.00	4,179,000
Emergency and Flood Response Projects (SD-000032)	36,686,091	1,432,074.25	14,457,916.30	7,000,000
Enterprise Asset Management-Work Order System				
(SD-000044)	2,400,000	0.00	1,000,000.00	1,400,000
Flood Prevention-Huntington Area-2012 (SD-000037)	41,350,000	204,250.20	2,260,024.24	0
Lake Accotink Dredging (SD-000041)	5,000,000	576,187.62	4,423,812.38	0
Laurel Hill Adaptive Reuse Infrastructure (SD-000038)	1,925,000	8,306.59	0.00	0
NVSWCD Contributory (2G25-007-000)	6,530,042	554,811.00	554,811.00	609,346
Occoquan Monitoring Contributory (2G25-008-000)	1,750,641	172,138.00	177,799.00	183,437
Scotts Run Stream Restoration (SD-000043)	151,358	151,357.99	0.00	0
Stormwater Allocation to Towns (2G25-027-000)	7,644,829	816,434.14	1,294,119.92	1,000,000
Stormwater Civil Penalties Fees (2G25-119-000)	185,750	0.00	185,750.00	0
Stormwater Facility (SD-000039)	96,515,000	1,985,385.95	88,412,475.41	0
Stormwater Proffers (2G25-032-000)	56,500	0.00	56,500.01	0
Stormwater Regulatory Program (2G25-006-000)	64,014,584	2,588,925.98	7,420,778.36	4,000,000
Stream & Water Quality Improvements (SD-000031)	255,588,016	22,533,970.99	80,322,038.93	23,507,957
Towns Grant Contribution (2G25-029-000)	4,805,976	176,548.01	906,583.17	0
Tree Preservation and Plantings (2G25-030-000)	308,916	28,427.87	232,993.36	0
Total	\$705,621,783	\$50,984,399.13	\$242,012,717.76	\$65,879,740



County of Fairfax, Virginia

MEMORANDUM

DATE:

april 5, 2022

TO:

Board of Supervisors

FROM:

Bryan J. Hill

County Executive

SUBJECT:

Department of Conservation and Recreation, Virginia Community Flood

Preparedness Fund

The Virginia Community Flood Preparedness Fund (CFPF) was "established to provide support for regions and localities across Virginia, to reduce the impacts of flooding, including flooding driven by climate change." The Department of Conservation and Recreation (DCR) administers loans and grants from the CFPF to local governments. DCR has advertised that approximately \$40,000,000 in matching CFPF funds is available this grant cycle. The minimum grant amount is \$50,000 for project grants and \$1,000 for study grants. Project grants will not be capped and final awards will be determined based on available funds following review by DCR. The grant amount per application will be determined based on scoring, amount requests from eligible applications, and available funds.

DCR is soliciting applications for flood prevention and protection project types including, but not limited to: i) nature-based solutions; ii) flood control solutions; and iii) preservation and creation of open space. DCR is also soliciting applications for the following study types including, but not limited to: i) floodplain ordinance revisions; ii) hydrologic and hydraulic floodplain studies with historic and predicted floods; iii) hydrologic and hydraulic floodplain studies to clarify or update FEMA Flood Insurance Rate Maps; and iv) studies and data collection of statewide and regional significance. Applications must be for discrete projects to be completed after the beginning of the application period and not later than three years from the date of an executed grant agreement or by an extension date approved by DCR. Applications for this grant cycle are due on April 8, 2022,

DCR will review applications and award grant assistance by category (project, study, and capacity building and planning) on a competitive scoring basis. Priority is given to applications that are in concert with local, state, and federal floodplain management standards, local resilience plans, and the Virginia Coastal Resilience Master Plan. Based on that ranking process, DCR will select and approve applications. The approved applications will be

> Office of the County Executive 12000 Government Center Parkway, Suite 552 Fairfax, VA 22035-0066 703-324-2531, TTY 711, Fax 703-324-3956 www.fairfaxcounty.gov

Board of Supervisors

Department of Conservation and Recreation, Virginia Community Flood Preparedness Fund Page 2 of 2

forwarded to the Virginia Resources Authority for the execution of a grant agreement and funding.

For this grant cycle, Fairfax County (County) proposes submitting the following five applications:

Project/Study Title		Project/Study Estimate	Grant Amount Requested
1.	Tucker Avenue Neighborhood Stormwater Improvements	\$9,834,000	\$5,900,000
2.	Chowan Avenue Flood Mitigation	\$2,000,000	\$1,200,000
3.	Little Pimmit Run Tributary at Woodland Terrace	\$4,279,000	\$2,567,000
4.	Tripps Run at Barrett Road Flood Mitigation	\$12,836,000	\$8,985,200
5.	County Regulated Floodplain Map Updates	\$1,200,000	\$600,000
Total	7	\$30,149,000	\$19,252,200

The County is under no financial obligation to apply for CFPF grants. If DCR selects one or more of these applications, the grant(s) will be presented to the Board of Supervisors for approval.

cc: Rachel Flynn, Deputy, County Executive

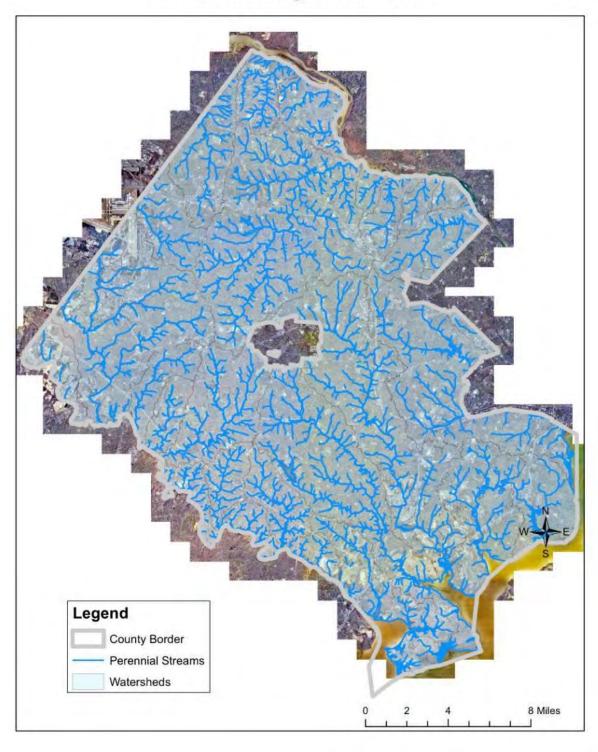
Christopher Herrington, Director, Department of Public Works and Environmental Services (DPWES)

Eleanor Ku Codding, Deputy Director DPWES, Stormwater and Wastewater Divisions

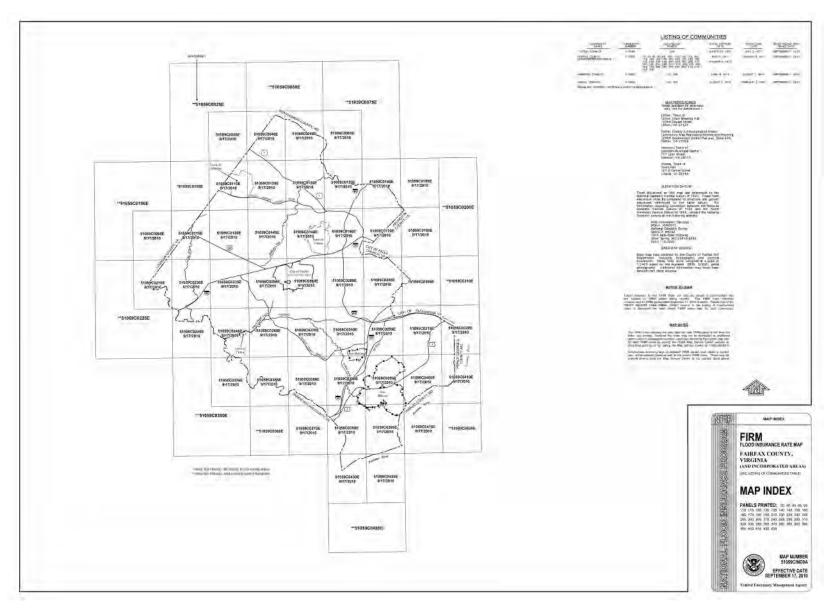
C. Supporting Documentation

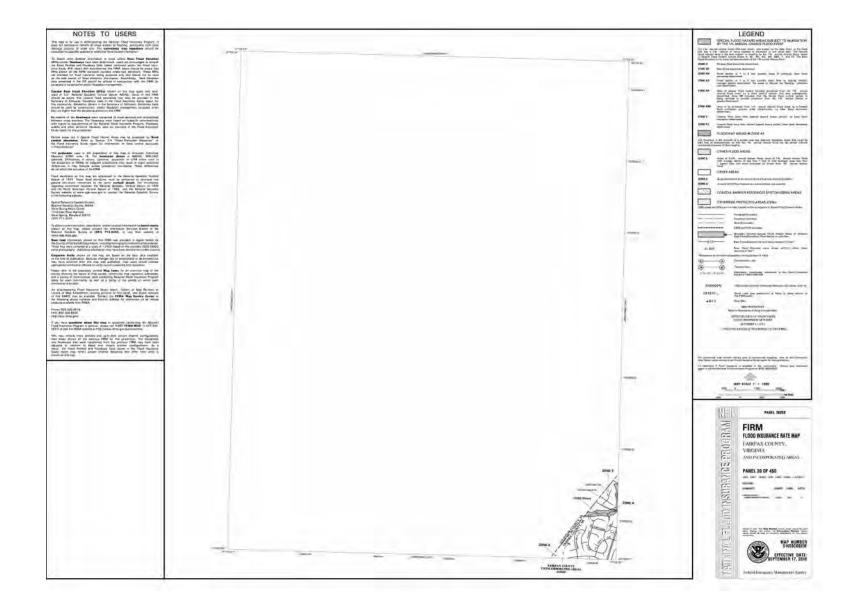
Scope of Work Narrative	
Supporting Documentation	Link or Attachment
Detailed map of the project areas	Attachment A
FIRMettes of the project areas	Attachment B
Historic flood damage data and/or images	Attachment C
A link to or copy of the current floodplain ordinance	https://online.encodeplus.com/regs/fairfaxcounty-va/doc-viewer.aspx#secid-251
A link to or a copy of the current hazard mitigation plan	https://www.fairfaxcounty.gov/emergencyman agement/sites/emergencymanagement/files/as sets/documents/pdf/hazard%20mitigation%20 plan%2010.22.19.pdf
A link to or a copy of the current comprehensive plan	https://www.fairfaxcounty.gov/planning- development/fairfax-county-comprehensive- plan
Social vulnerability index score for the project areas from ADAPT VA's Virginia Vulnerability Viewer	Attachment D
Completed Scoring Criteria Sheet in Appendix C	See Appendices
Approved Resilience Plan	Attachment E
Budget Narrative	
Supporting Documentation	Attachment
Authorization to request funding from the Fund from governing body or chief executive of the local government	Attachment 4

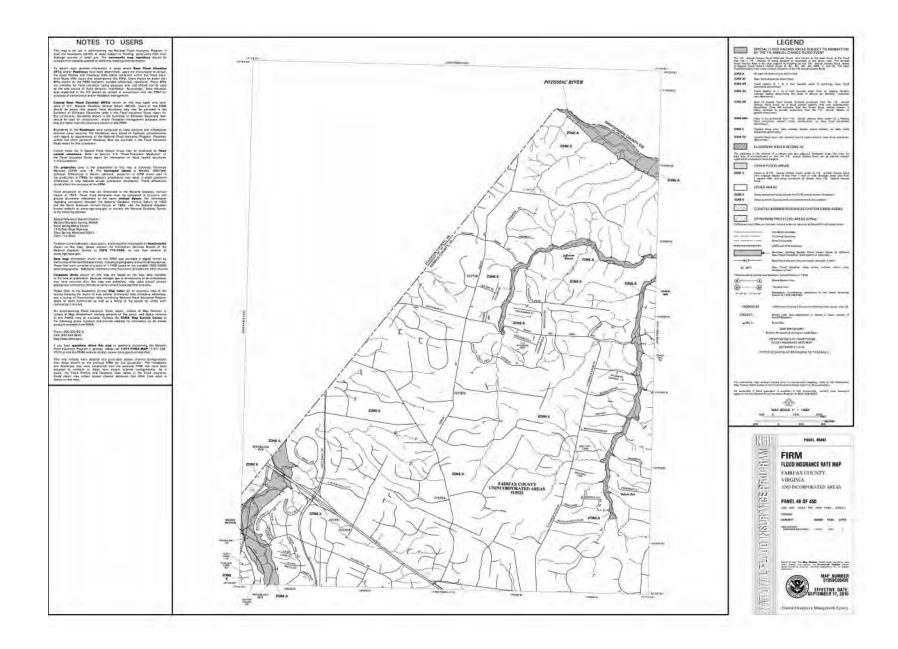
Fairfax County Watersheds

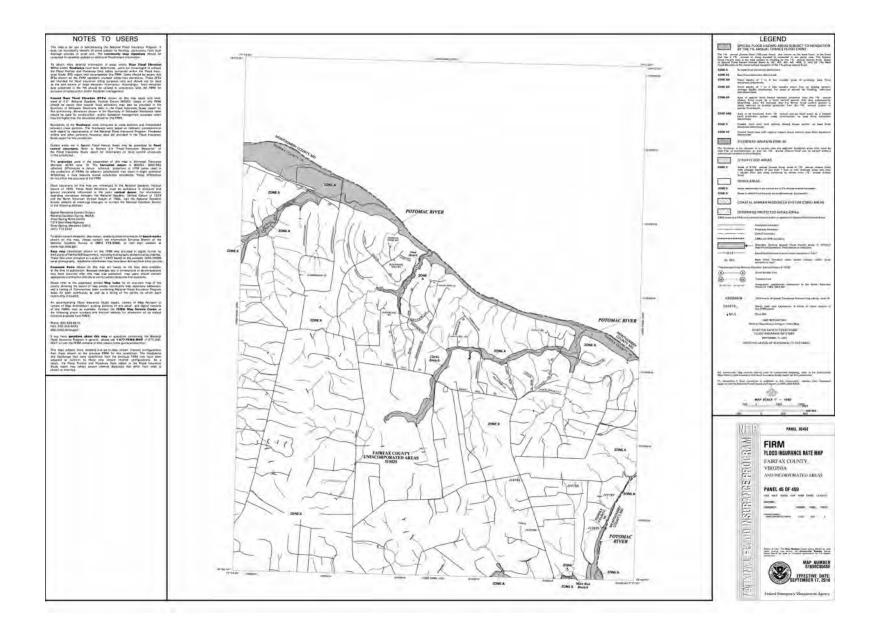


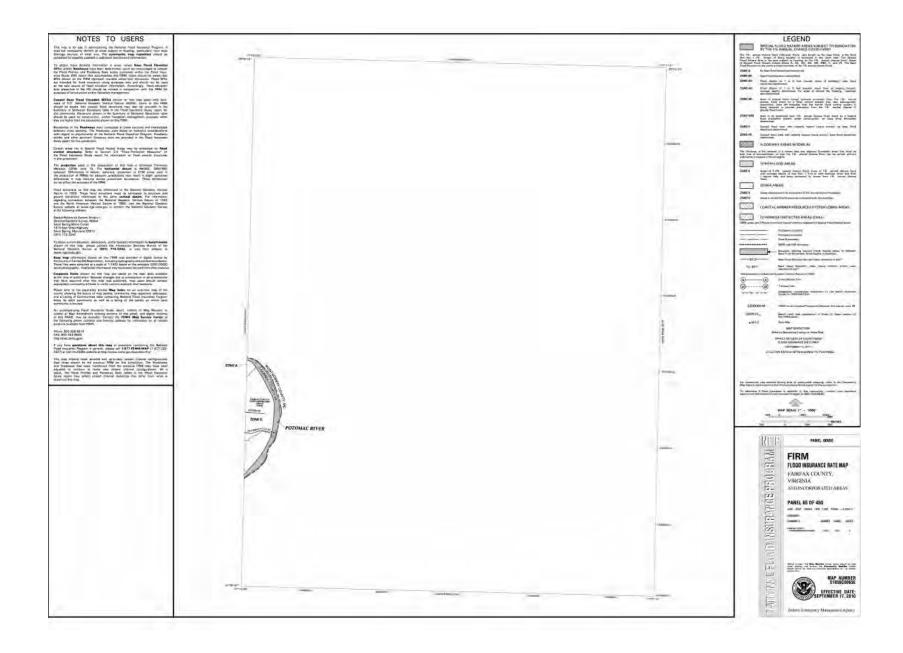
Attachment B. FIRMs of the study area

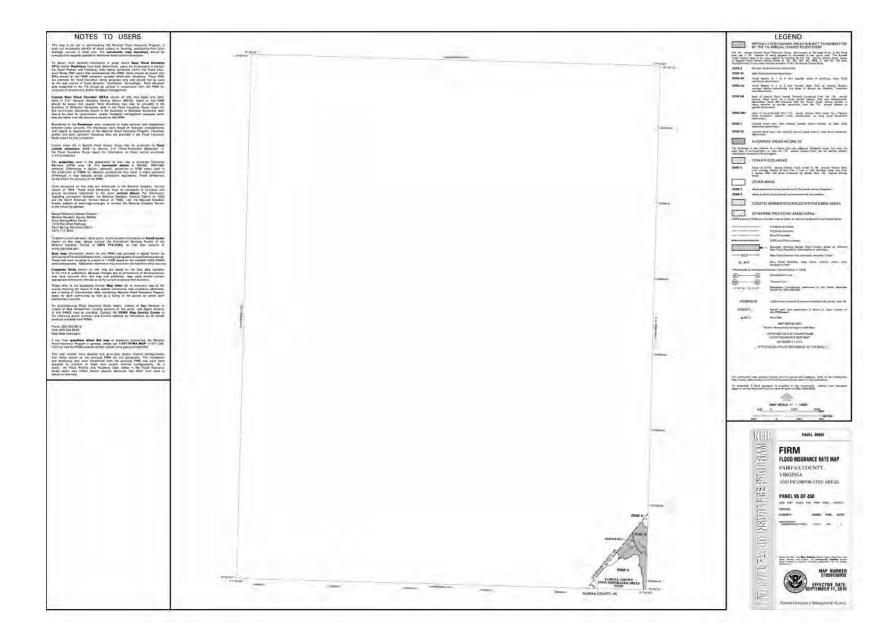


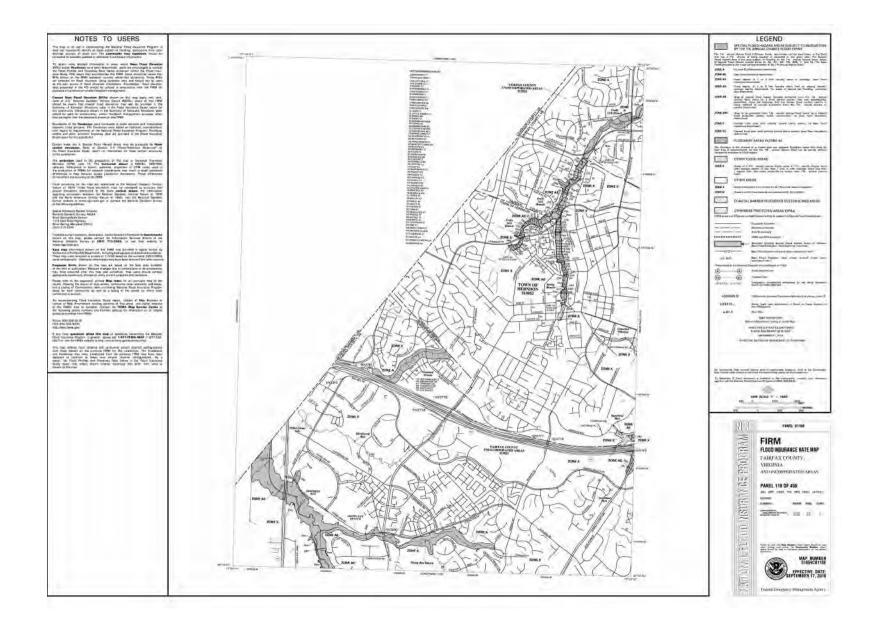


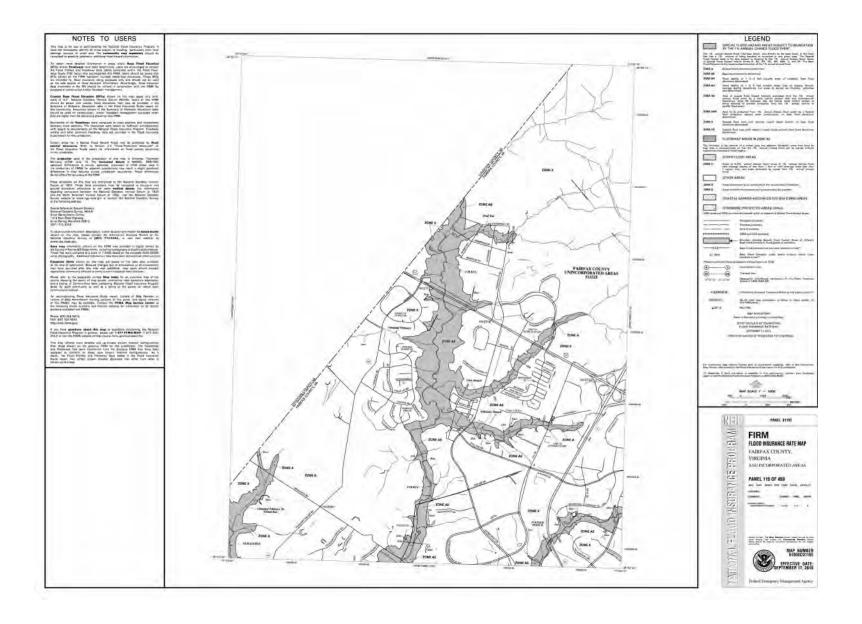


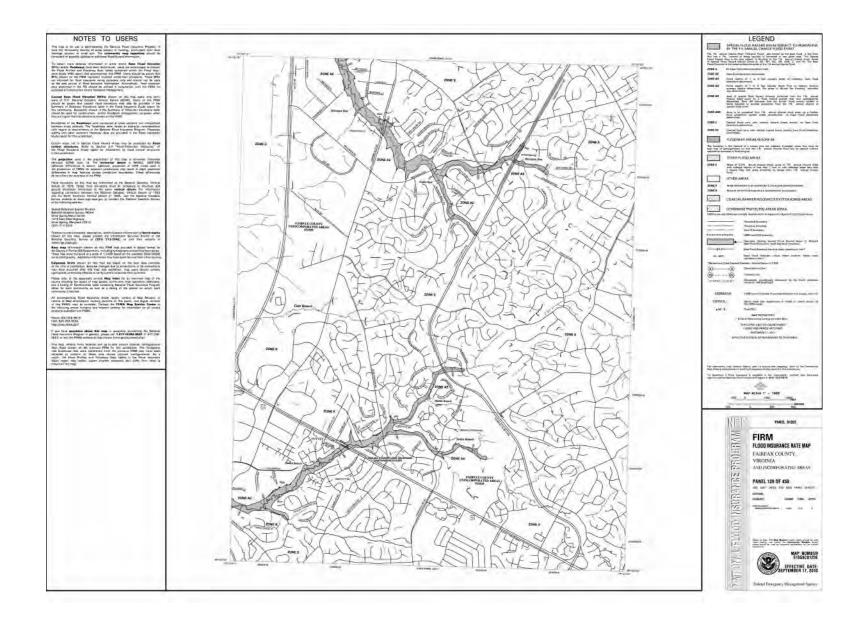


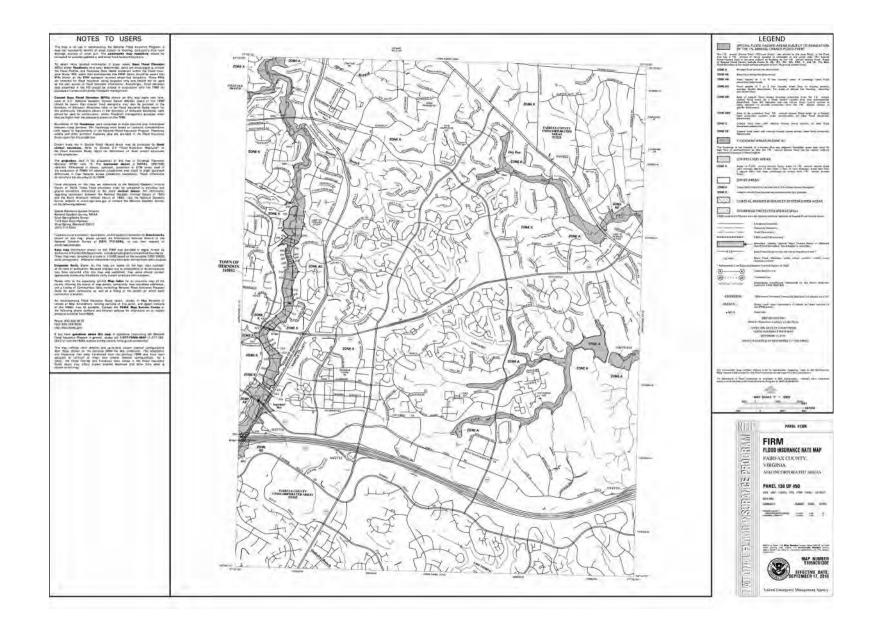


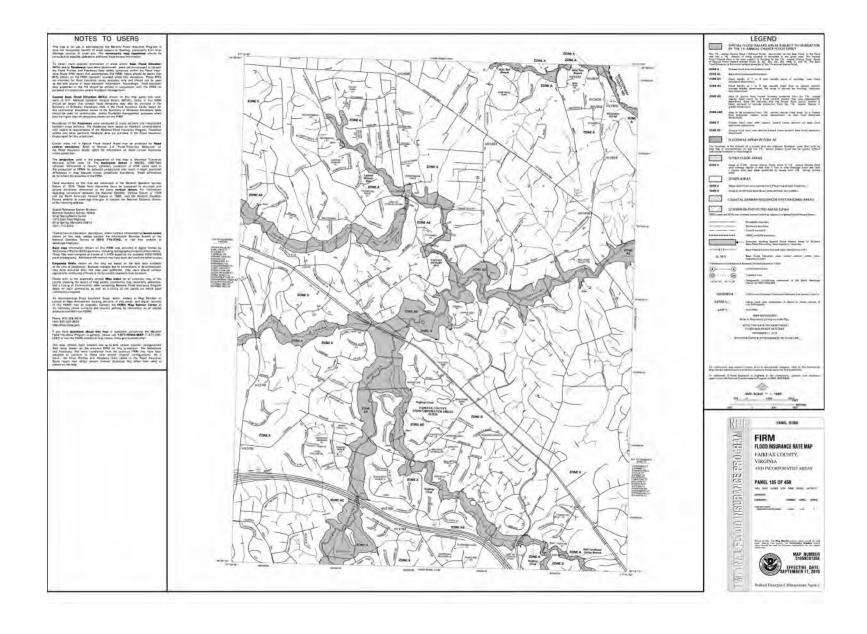


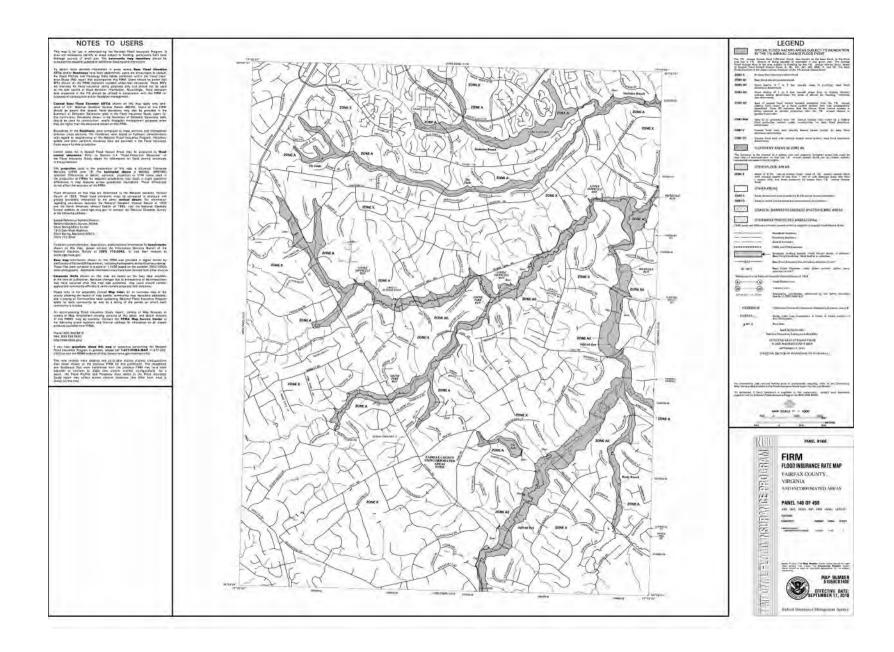


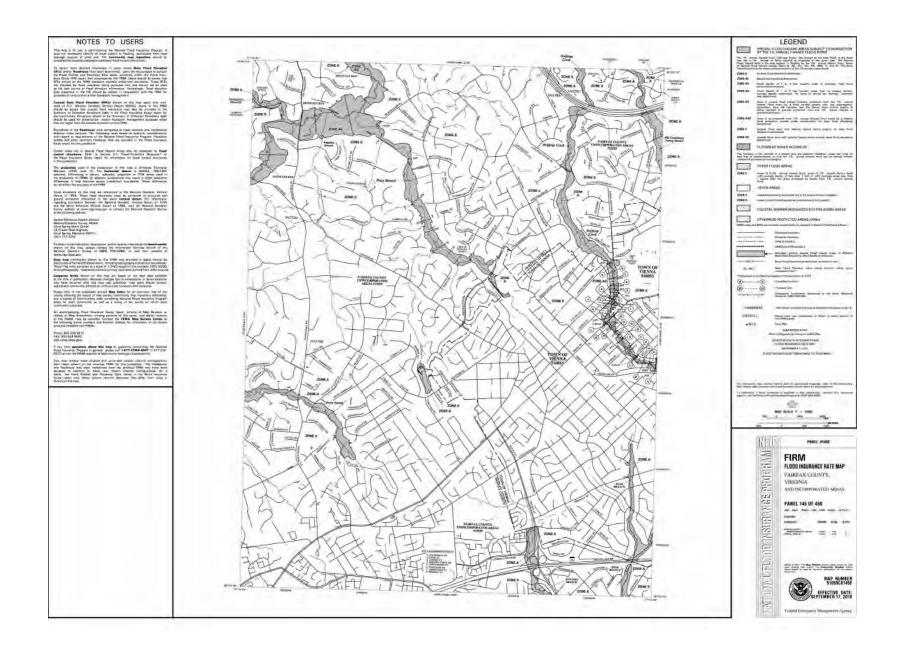


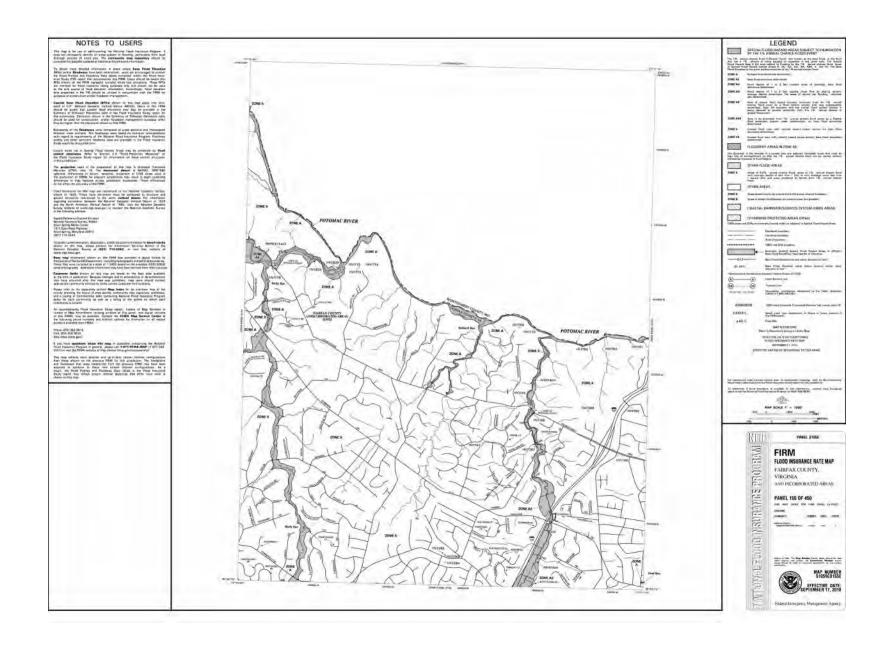


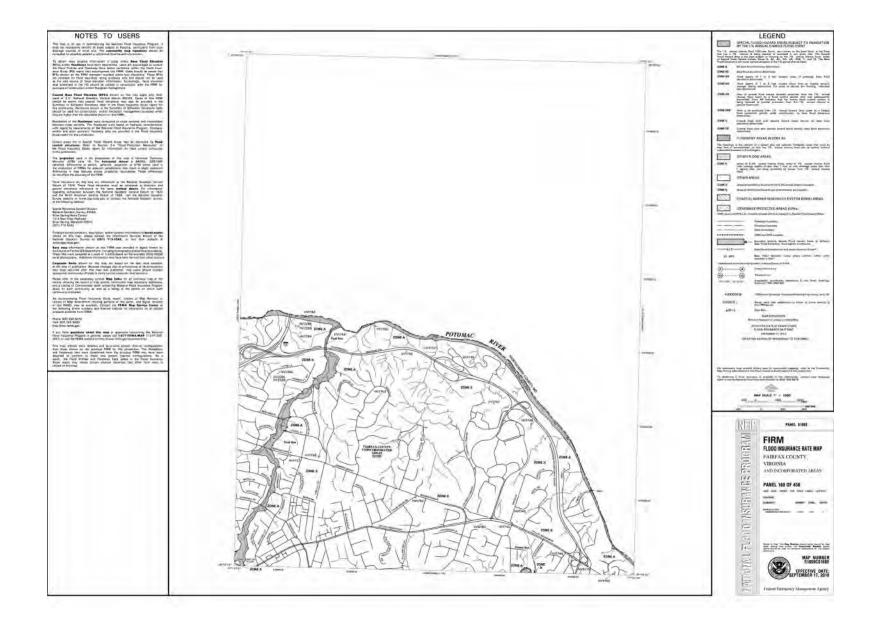


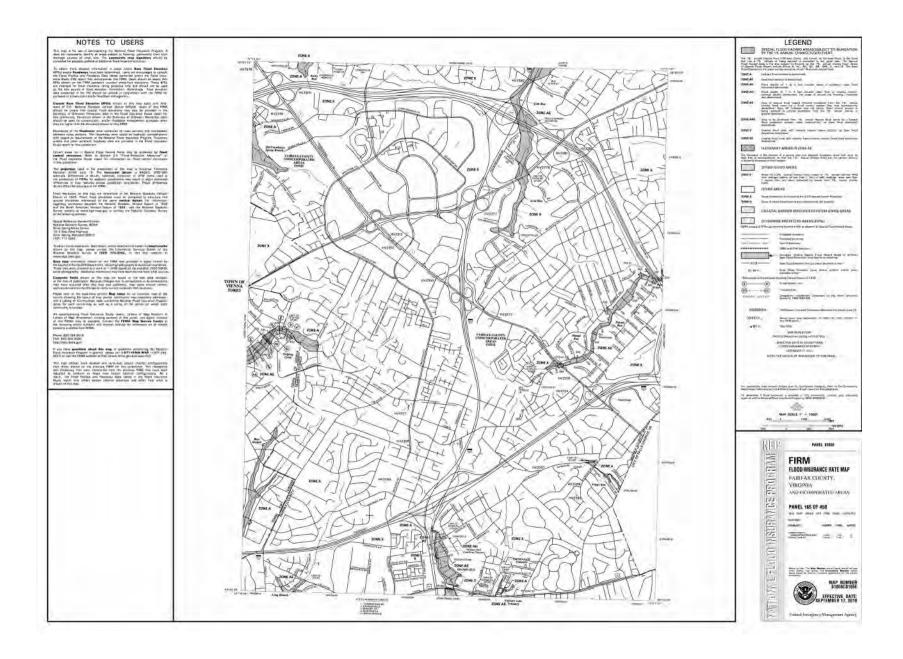


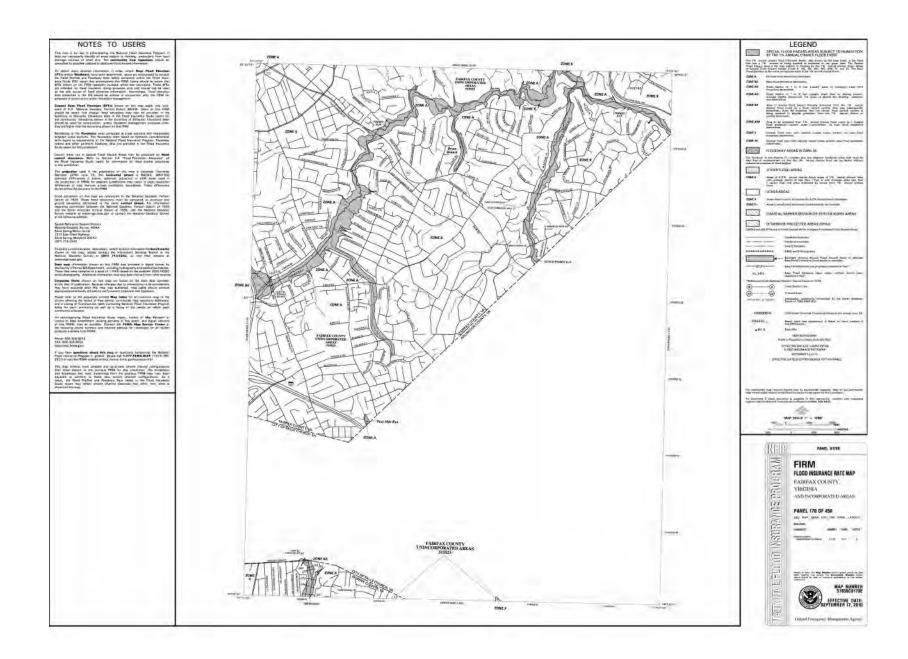


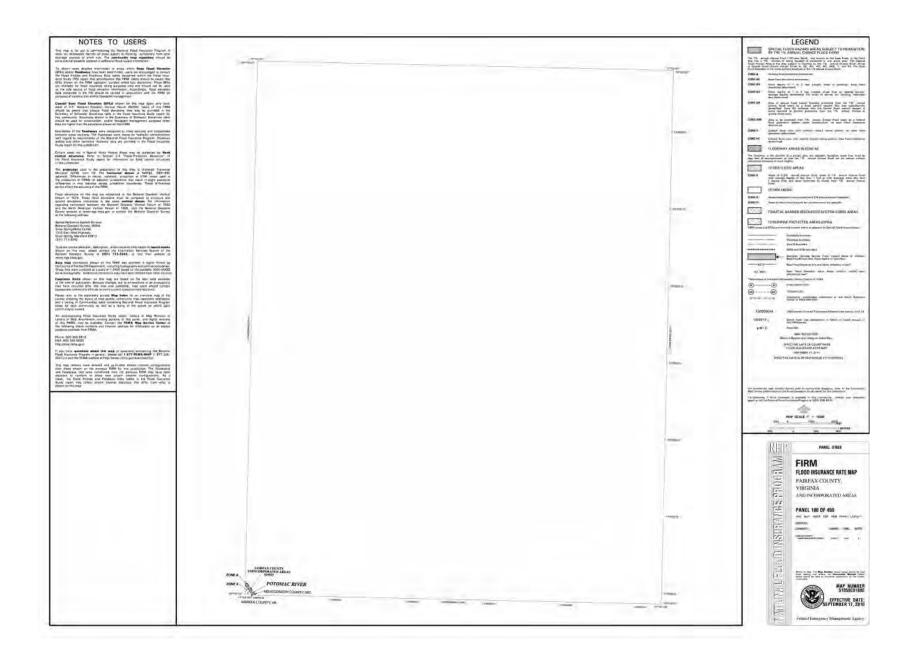


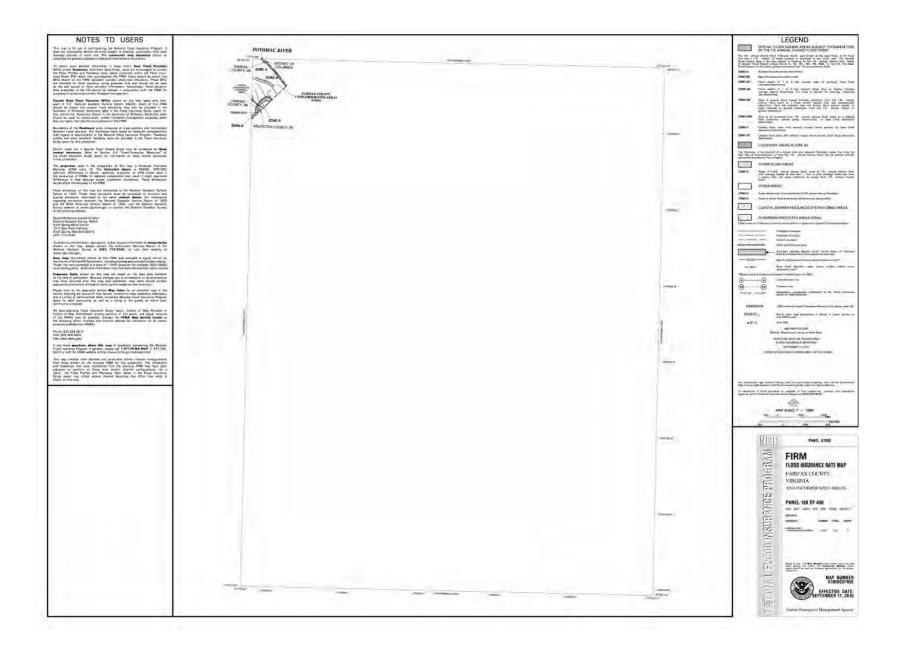


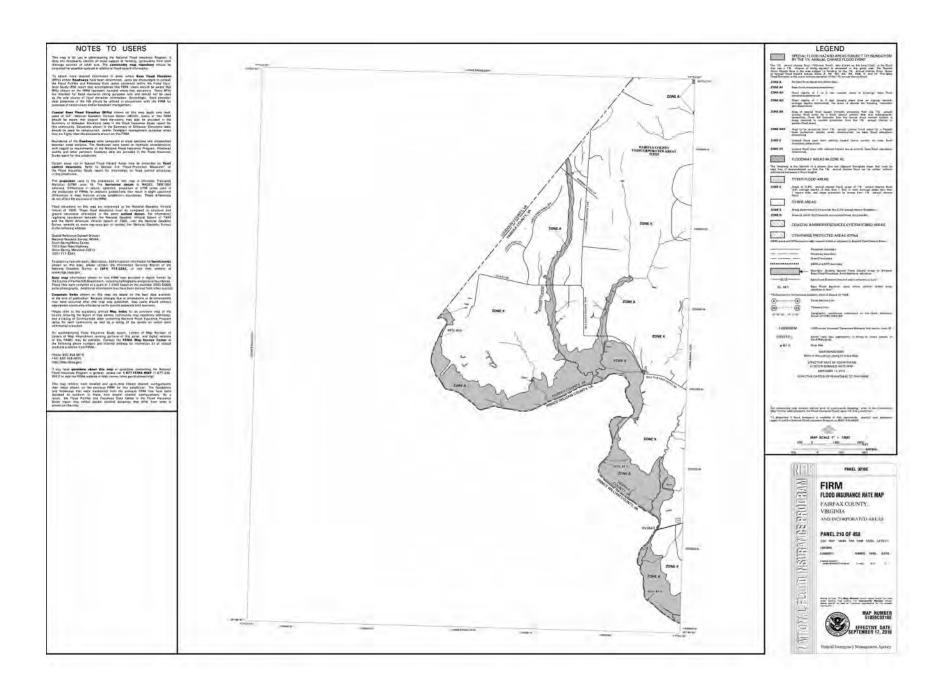


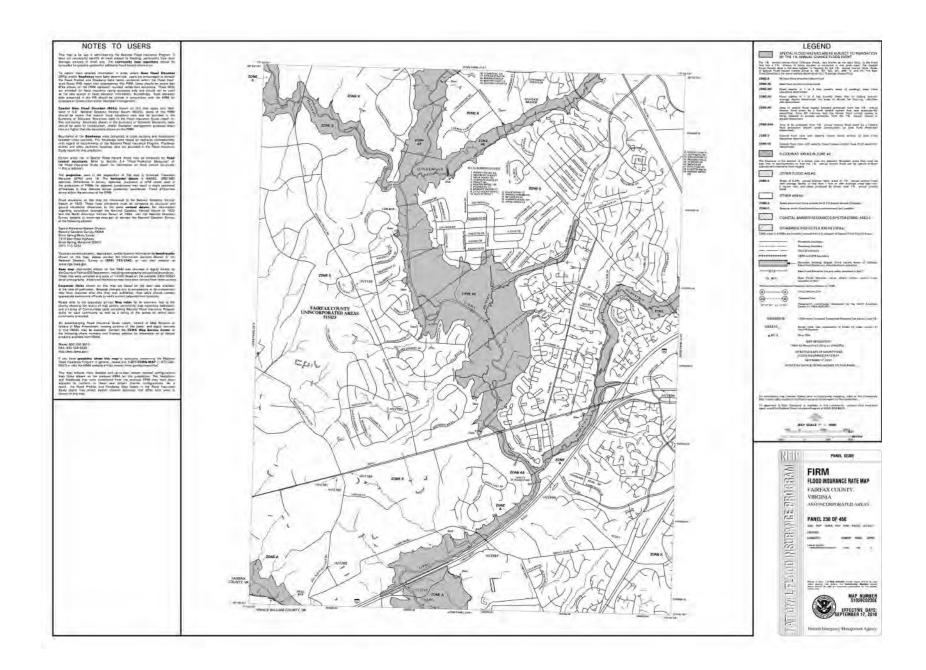


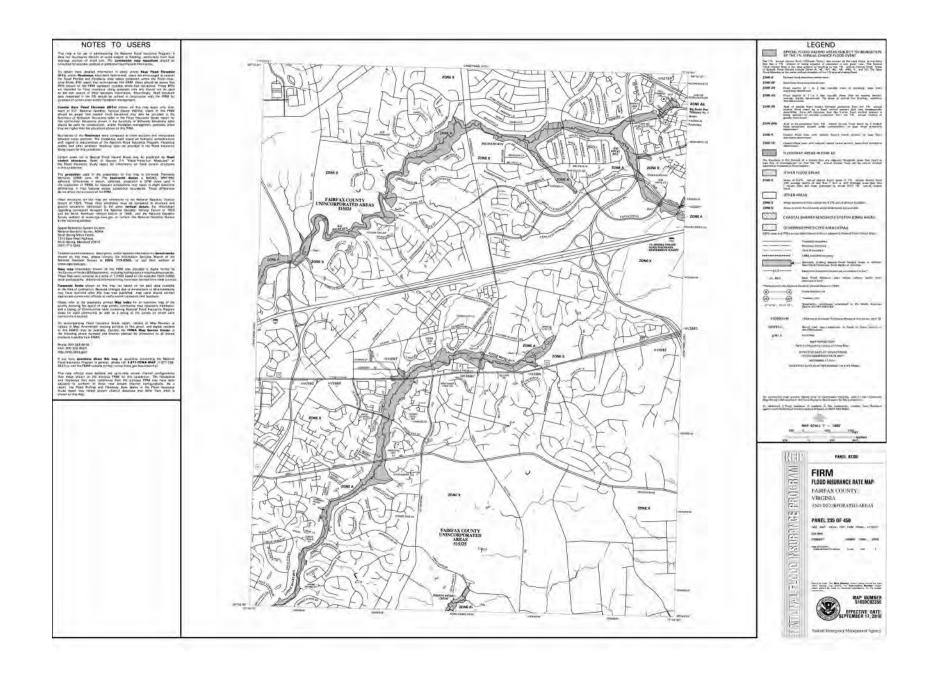


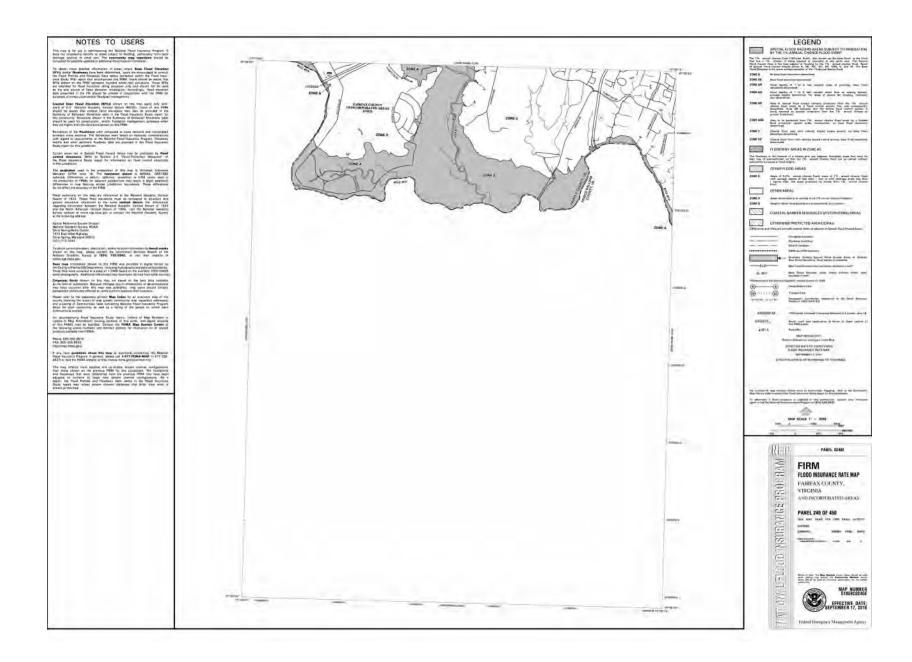


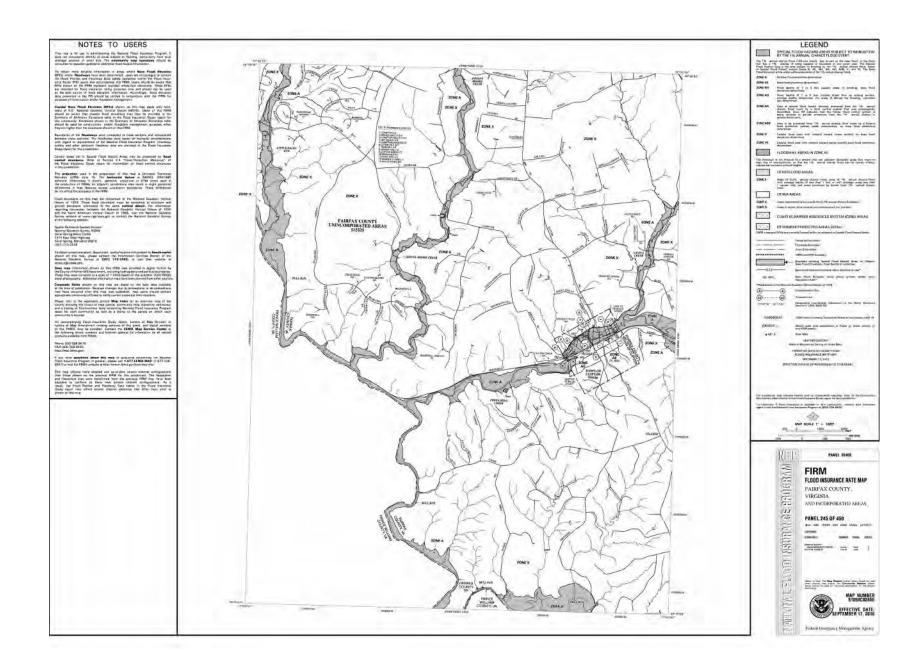


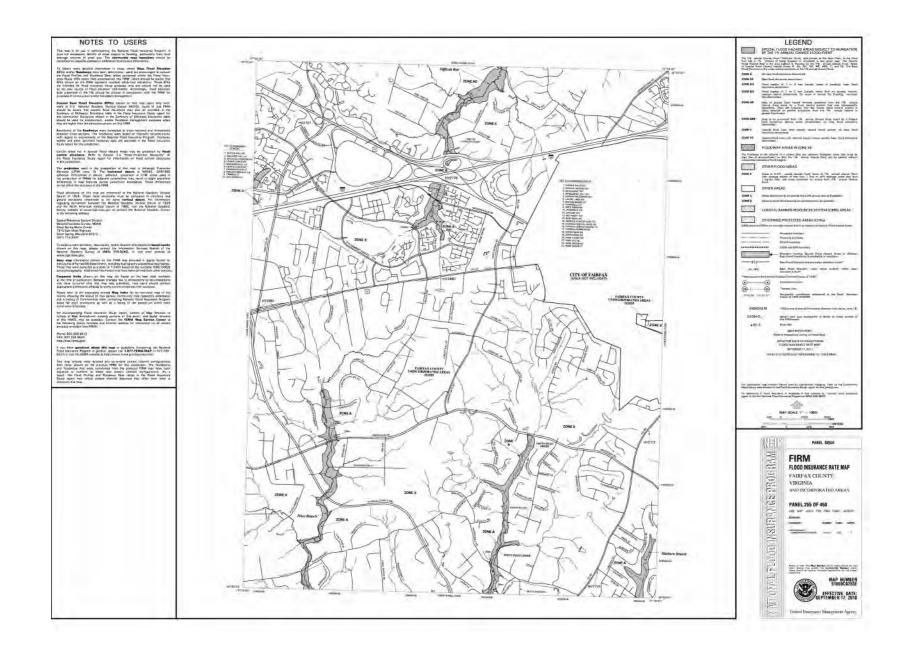


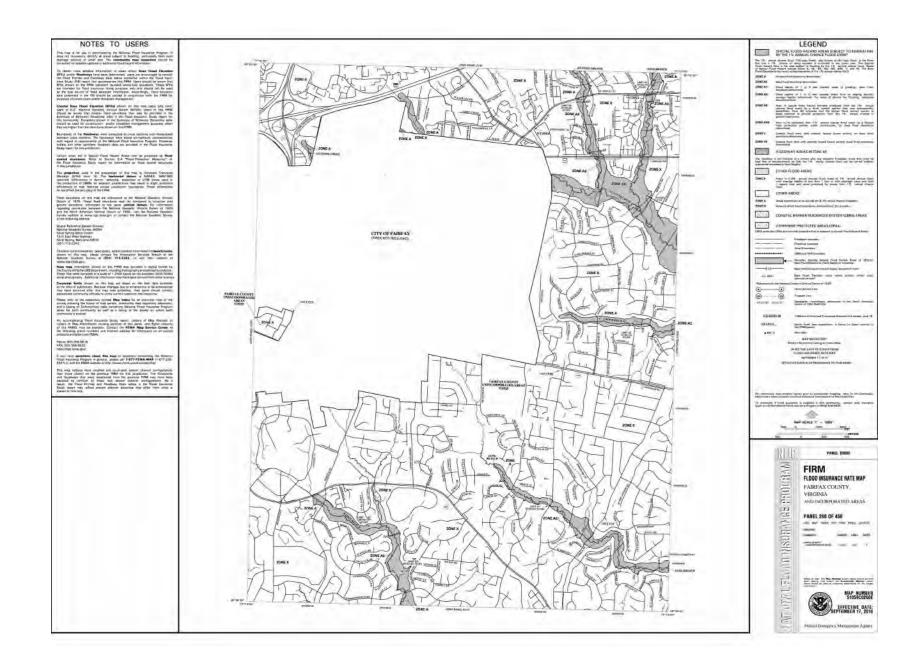


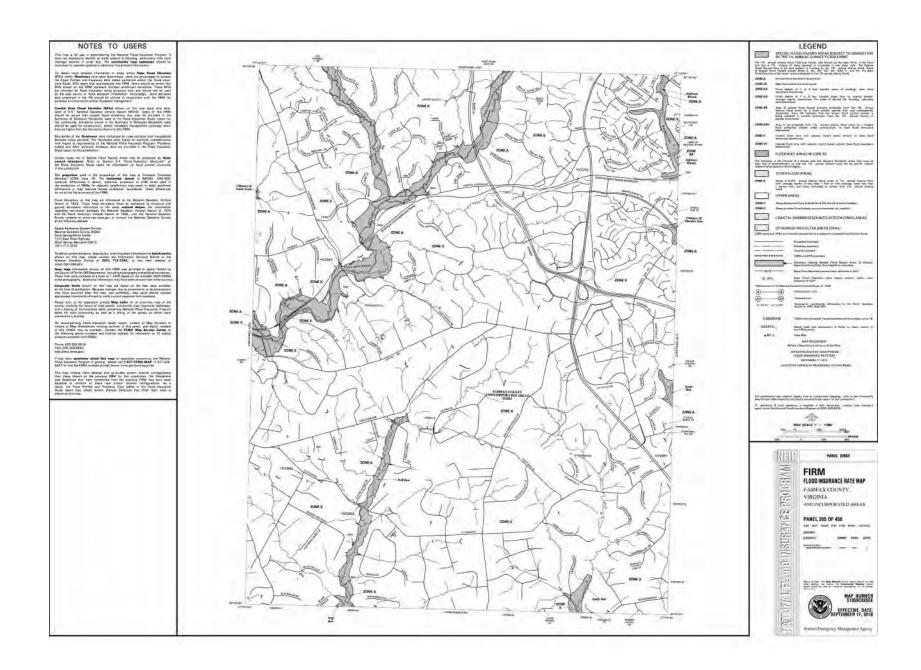


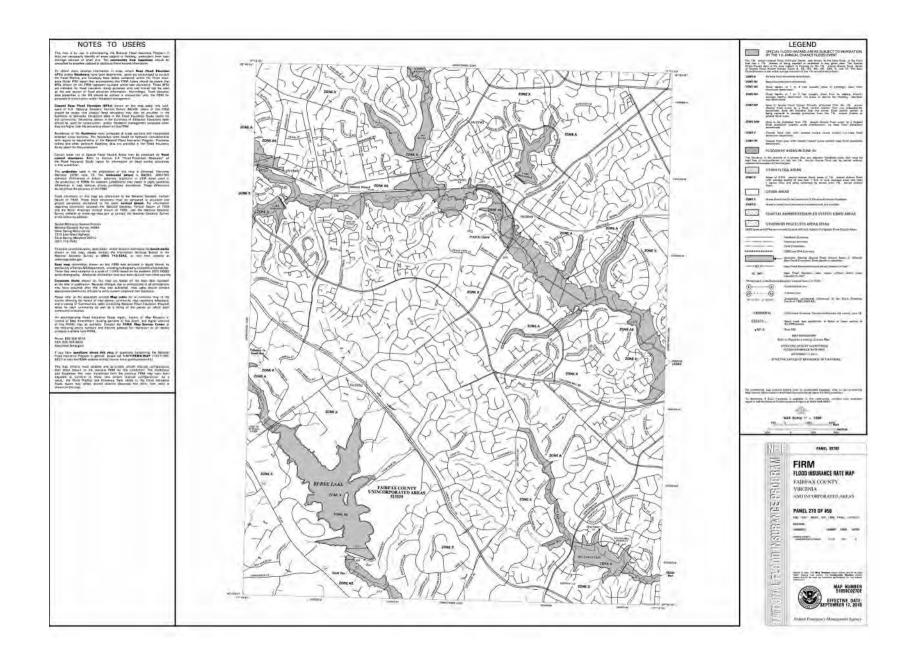


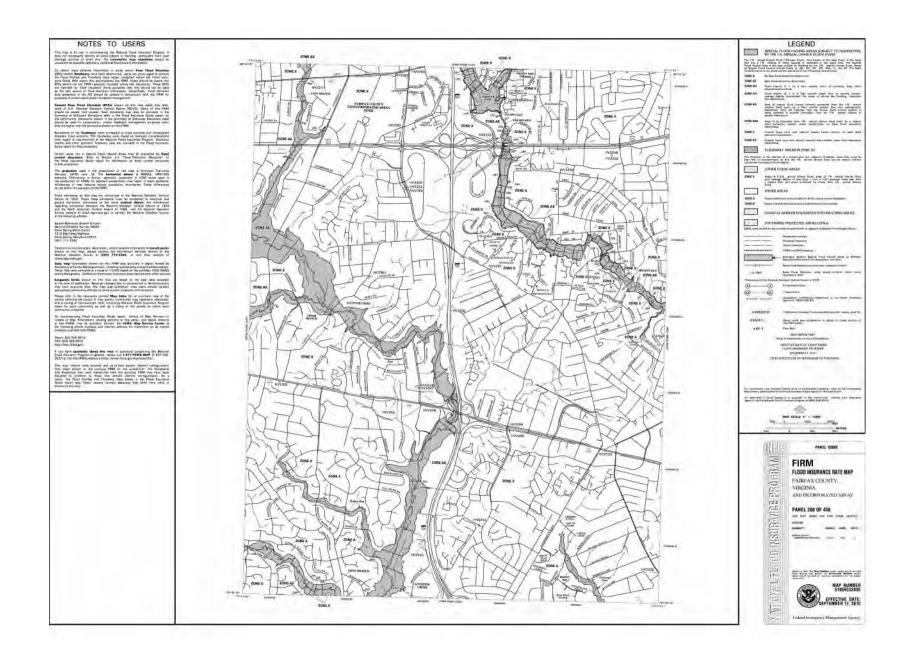


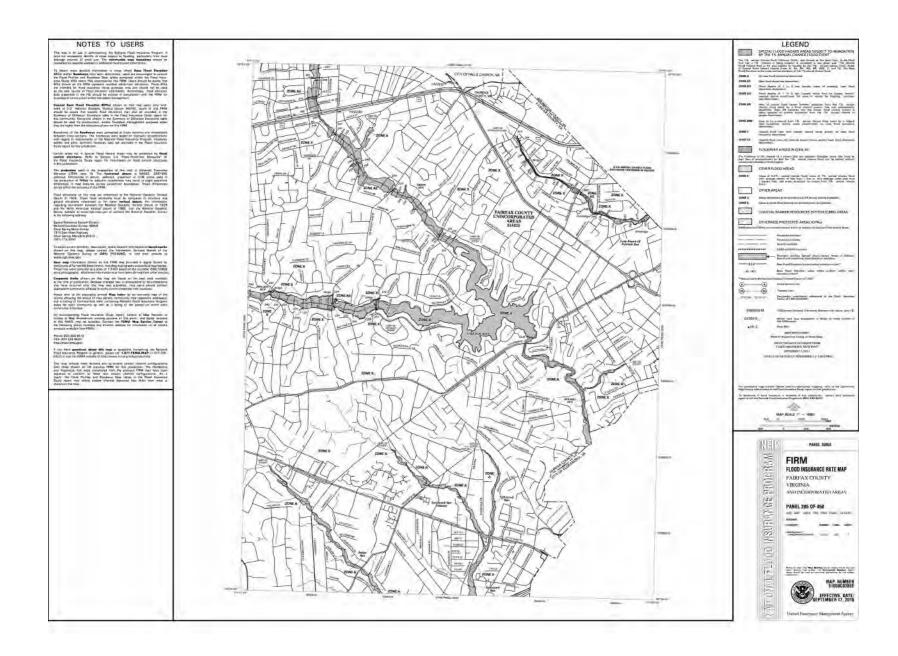


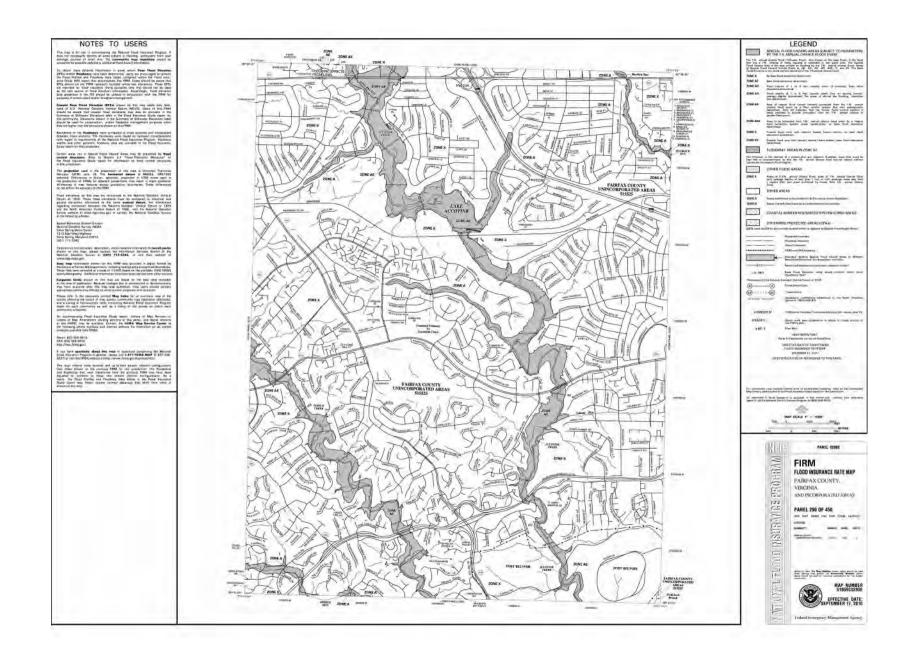


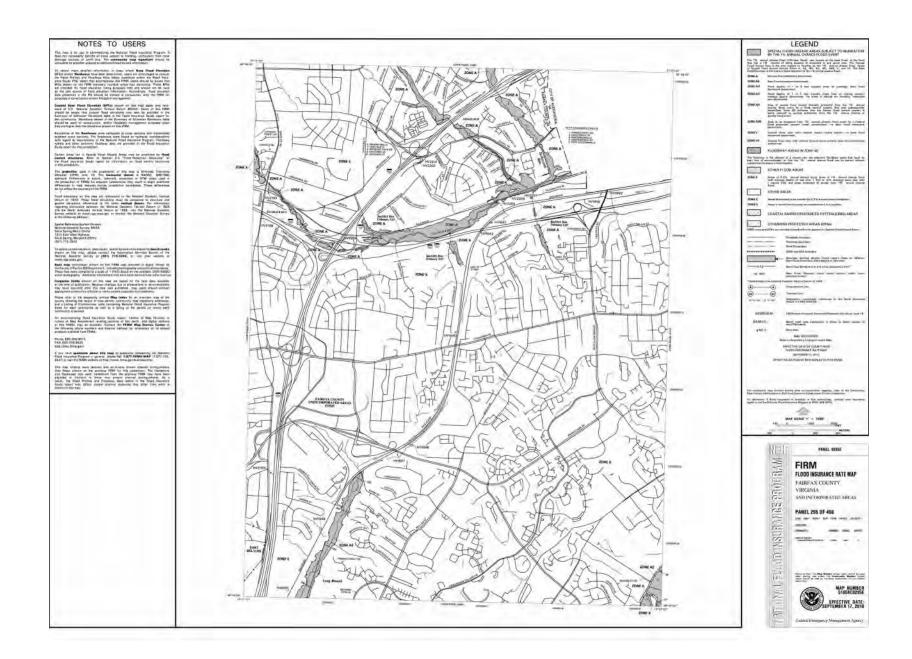


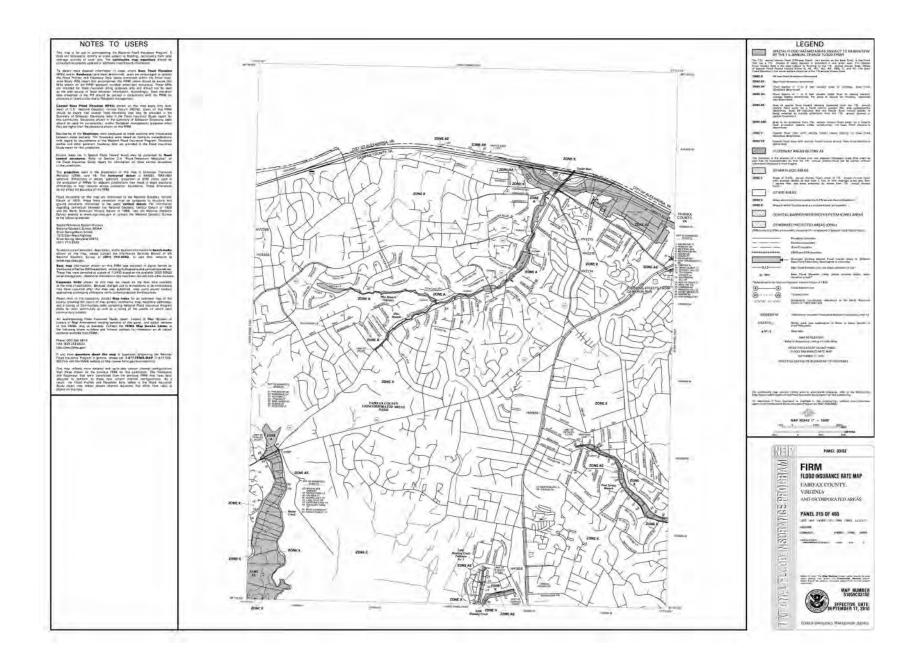


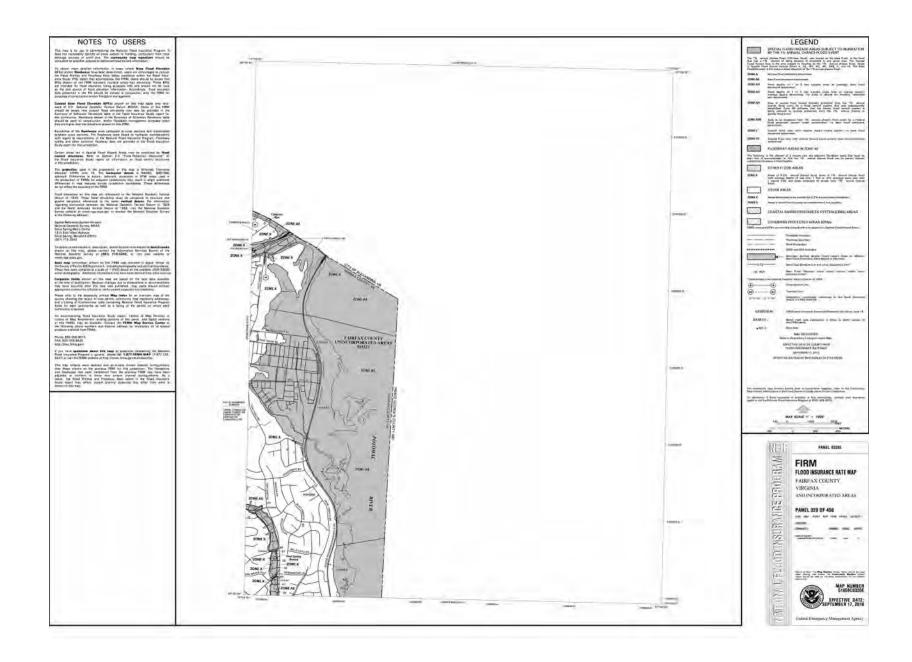


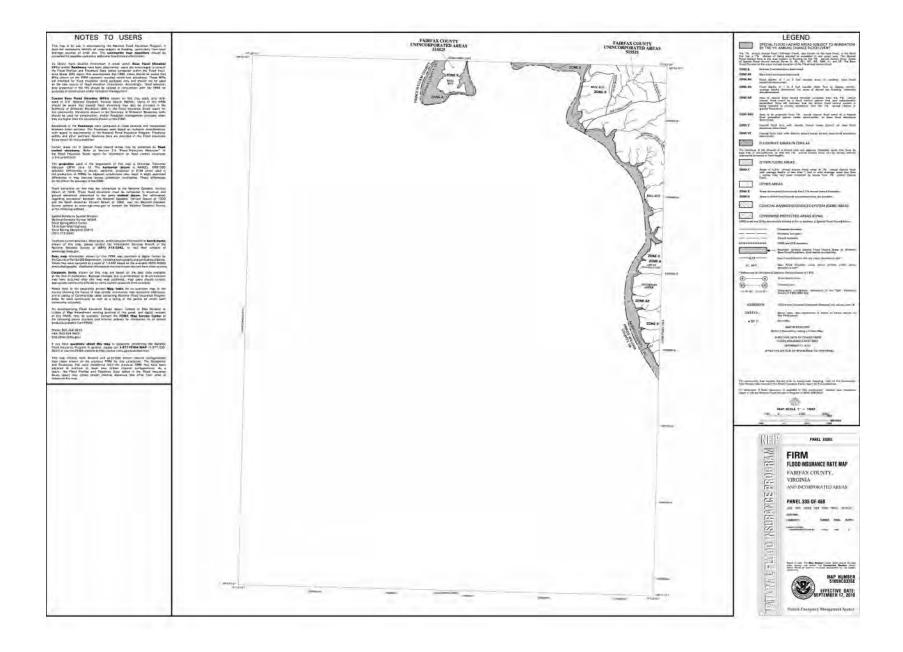


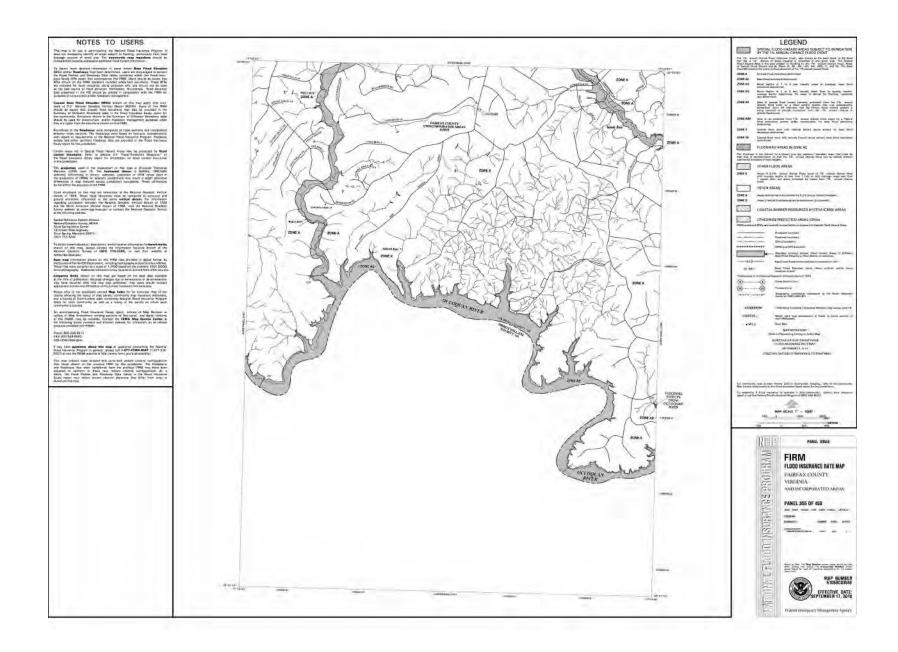


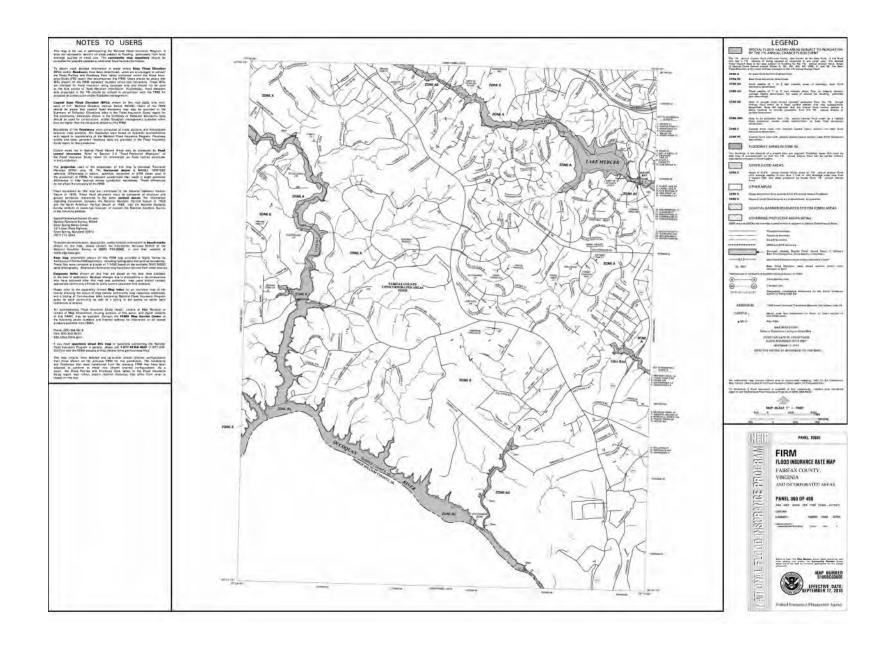


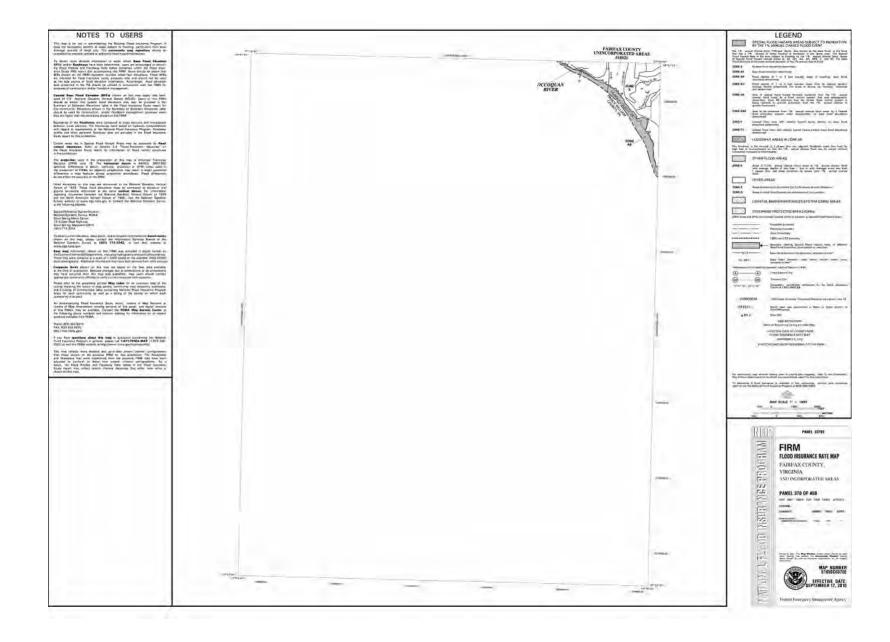


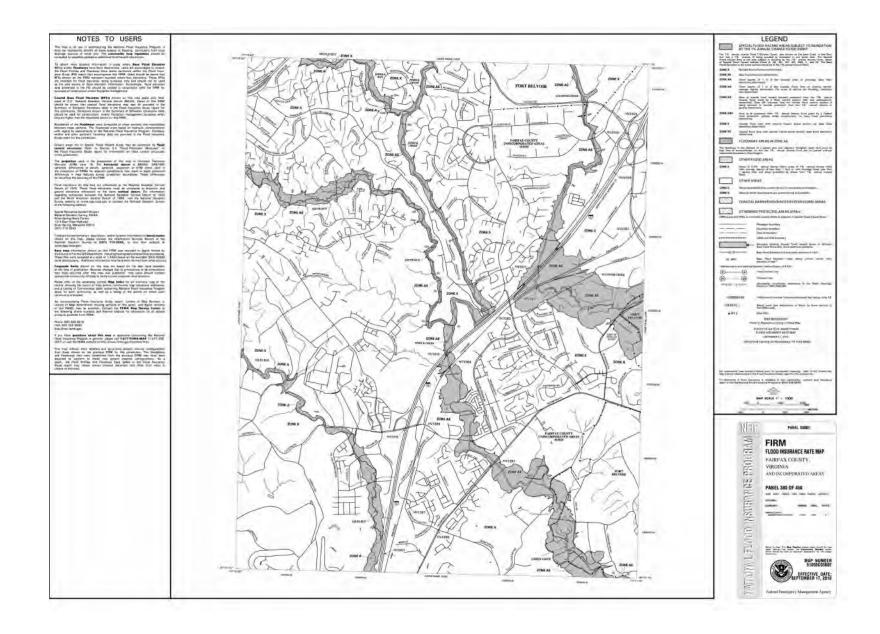


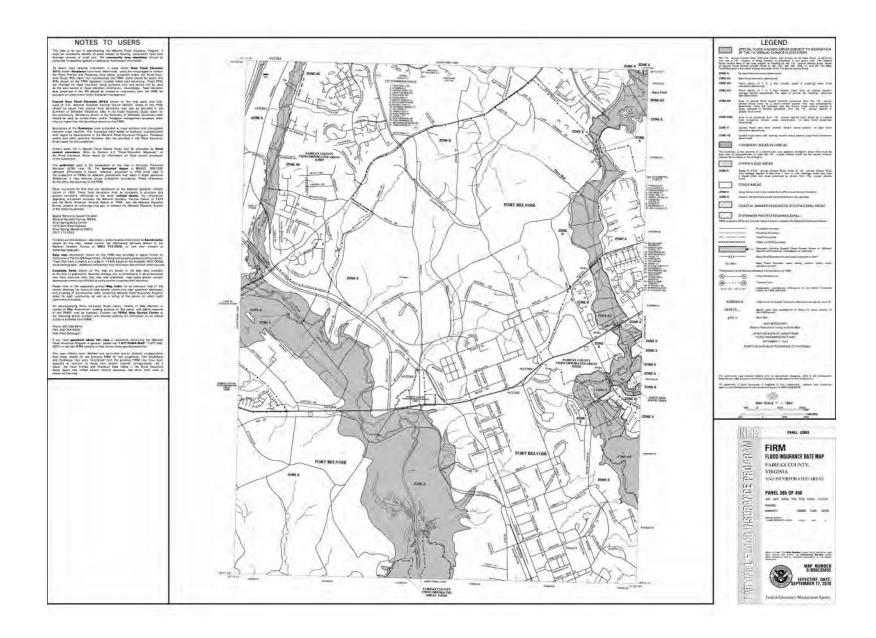


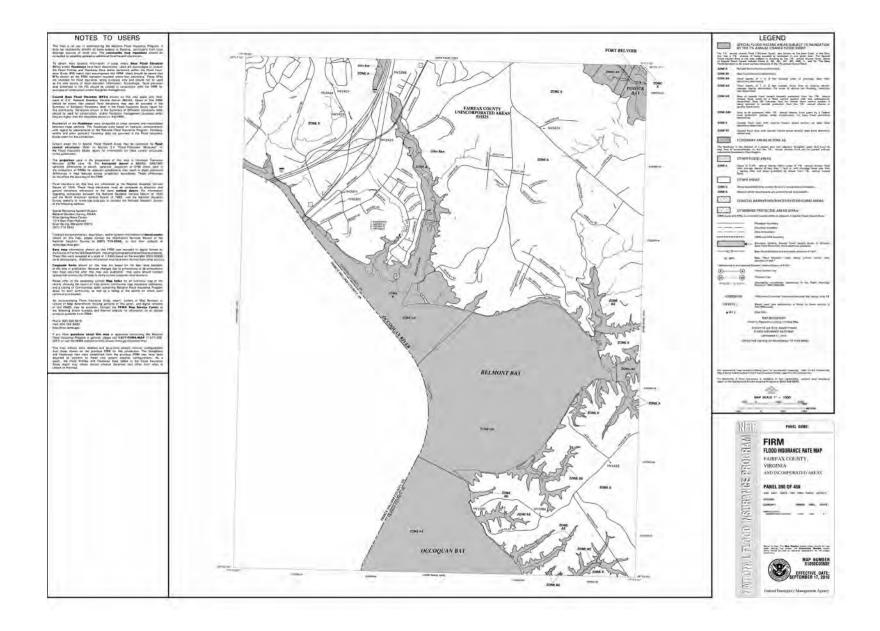


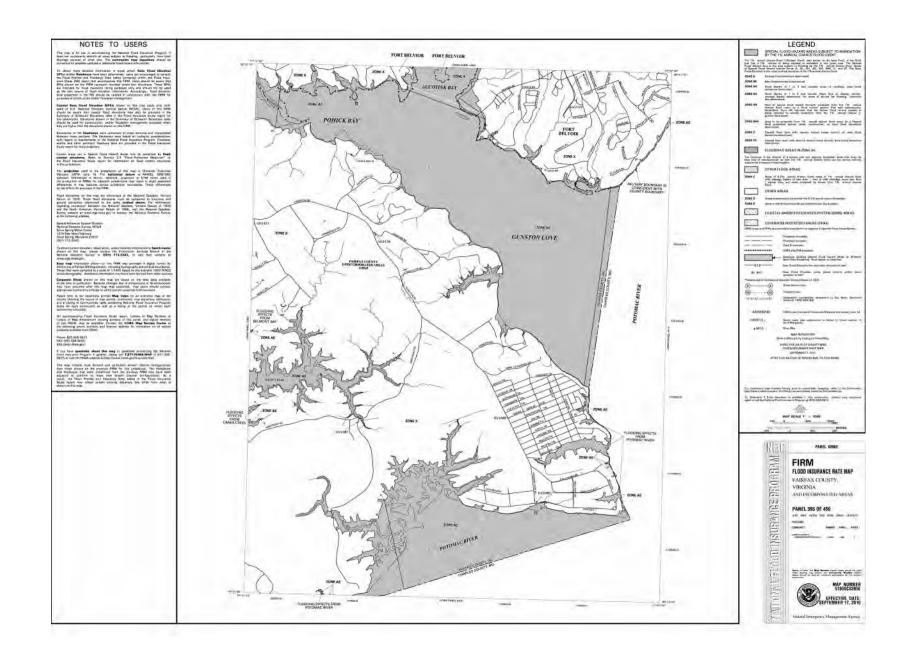


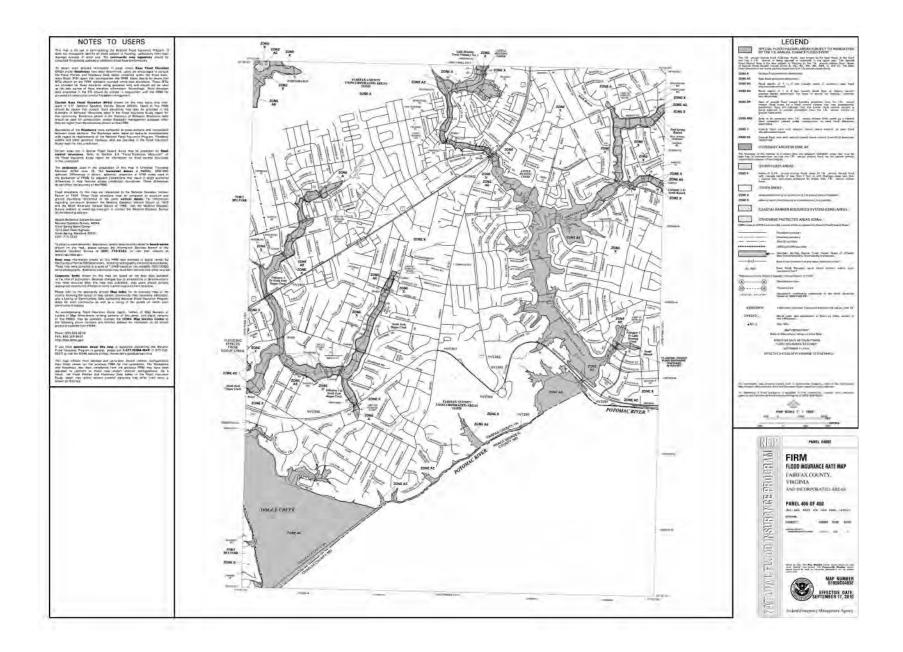


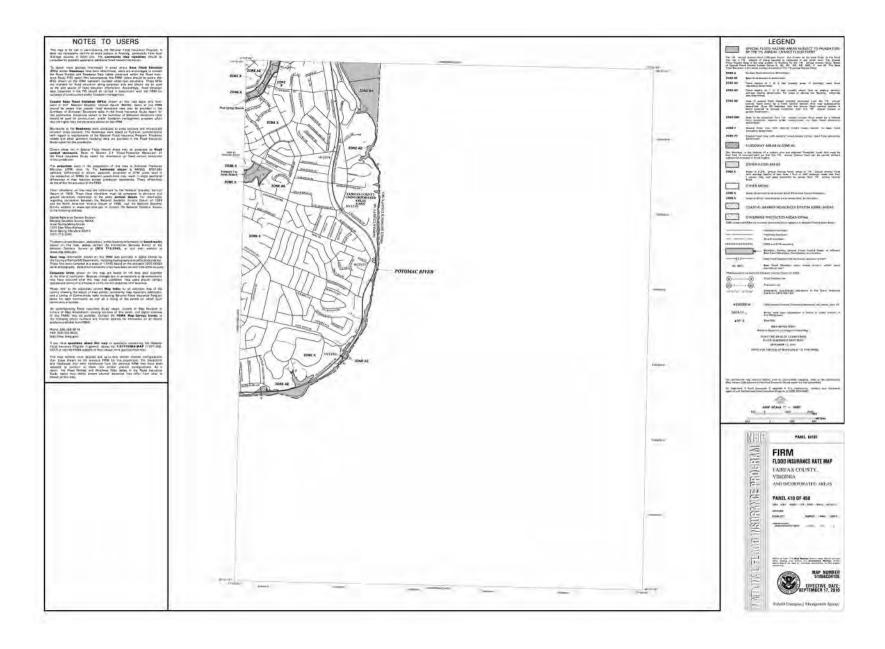


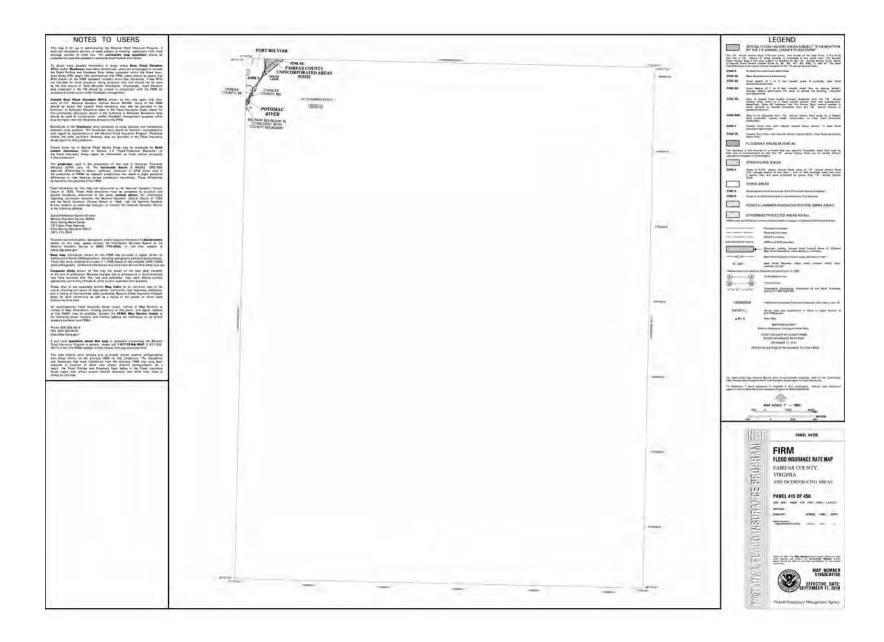


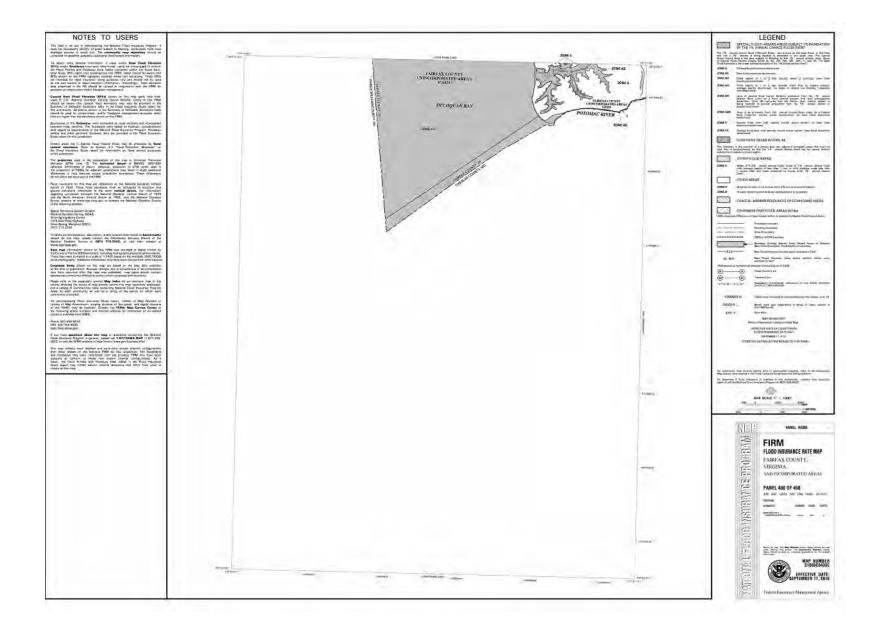


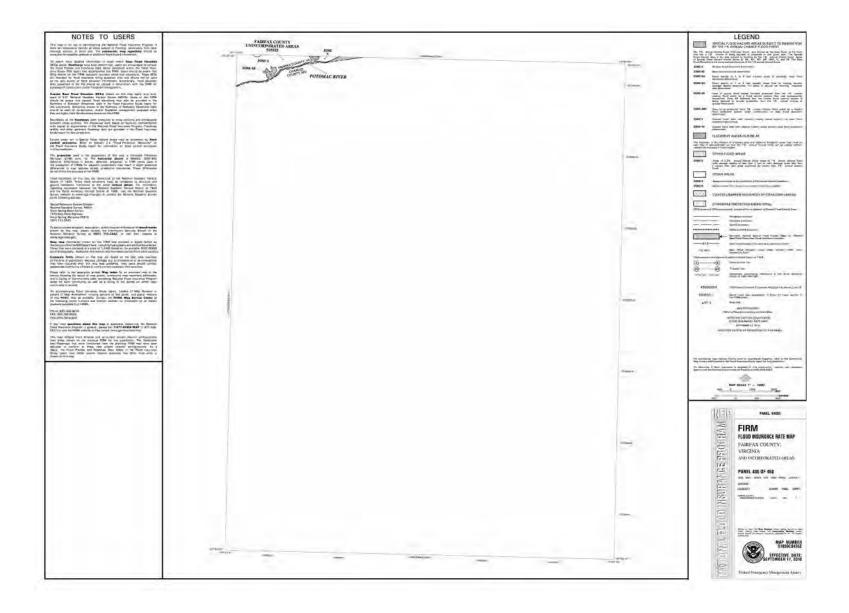












Fairfax County Historic Flood Damage Examples

ATTACHMENT C















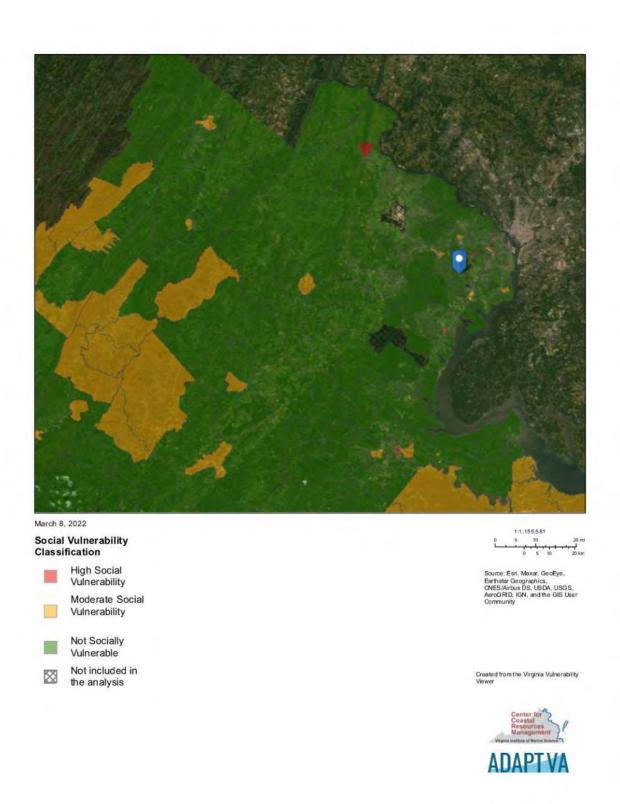
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Attachment E. Approved Resilience Plan

Ann Jennings Secretary of Natural and Historic Resources and Chief Resilience Officer



Clyde E. Cristman

COMMONWEALTH of VIRGINIA

DEPARTMENT OF CONSERVATION AND RECREATION

January 10, 2022

Joni Calmbacher, PE, CFM
Project Manager II
DPWES, Stormwater Planning Division
Watershed Projects Implementation Branch – South
12000 Government Center Parkway Fairfax, VA 22035

RE: Fairfax County Resilience Plan Submission - CFPF

Dear Ms. Calmbacher,

Thank you for providing an overview of your Resilience Plan, and informing DCR of the various plans that Fairfax County will be utilizing to fulfill the Resilience Plan submission requirements. After careful review and consideration, the Virginia Department of Conservation and Recreation has deemed the Plan complete and meets all the criteria outlined in the 2021 Community Flood Preparedness Grant Manual. This approval will remain in effect for a period of three years, ending on January 11, 2025.

The following elements were evaluated as part of this review:

Element 1: It is project-based with projects focused on flood control and resilience. DCR RESPONSE

Meets criteria as written.

a. Project-based: Fairfax County is divided into 30 watersheds which have been addressed in 11 major watershed management plans. Each of the watershed management plans contains projects and watershed management area restoration strategies. The 2017 Northern Virginia Hazard Mitigation Plan was a regional effort involving nineteen counties, including Fairfax County, and outlines specific mitigation projects for each participating community in order to reduce vulnerability and exposure to future hazards, including flooding events. The Fairfax County FY 2022 - FY 2026 Capital Improvement Program, Stormwater Management contains projects at various locations throughout Fairfax County. The projects included and described in the Fairfax County FY 2022 - FY 2026 Capital Improvement Program, Stormwater Management align with the established Comprehensive Plan objectives. The Resilient Critical

600 East Main Street, 24th Floor Richmond, Virginia 23219 | 804-786-6124

State Parks • Soil and Water Conservation • Outdoor Recreation Planning Natural Heritage • Dam Safety and Floodplain Management • Land Conservation Infrastructure Roadmap for Northern Virginia contains a database of resilience projects throughout northern Virginia, including Fairfax County.

2. Element 2: It incorporates nature-based infrastructure to the maximum extent possible. DCR RESPONSE

Meets criteria as written.

- a. The 2020 Regional Collaboration to Build Community Resilience in Northern Virginia expanded upon The Roadmap, to include maximization of green infrastructure. Nature-based solutions are also presented in the Fairfax County Watershed Management Plan and the Fairfax County FY 2022 - FY 2026 Capital Improvement Program, Stormwater Management.
- Element 3: It includes considerations of all parts of a locality regardless of socioeconomics or race. DCR RESPONSE

Meets criteria as written.

- All parts of a locality: The Northern Virginia Hazard Mitigation Plan discusses the demographic and economic trends throughout the entirety of Fairfax County.
- b. Social vulnerability: The Regional Collaboration to Build Community Resilience in Northern Virginia presents a more comprehensive approach that includes an assessment of the socioeconomic impacts of infrastructure disruptions on vulnerable populations that will be taken into account as well as the socioeconomic benefits of infrastructure investment. This expanded upon objectives contained within The Roadmap, to ensure equitable access to resilient critical infrastructure.
- c. Demographic Analysis: Population and demographic characteristics outlined within the Northern Virginia Hazard Mitigation Plan. The Fairfax County Comprehensive Plan also looks at demographics and social factors and utilizes this information to support the Human Services section of the Comprehensive Plan.
- Element 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. DCR RESPONSE

Meets criteria as written.

a. Coordination with other local and inter-jurisdictional projects, plans and activities: Objective 4: Strengthen Regional Resilience Through Innovative Partnerships, Programs, and Pilots contained within Resilient Critical Infrastructure Roadmap for Northern Virginia focuses on coordination with local and inter-jurisdictional agencies and aligning strategies and programs. The Comprehensive Plan for Fairfax County, Virginia was adopted by the Board of Supervisors, Planning Commission, The Department of Planning and Zoning, and the Department of Transportation, and guides all of the plans presented in the Resilience Plan

submission for Fairfax County. The Northern Virginia Hazard Mitigation Plan was a collaborative effort that was adopted by all impacted localities.

- b. Clearly articulated timeline or phasing plan for implementation: Timeline for deliverables is presented within the Regional Collaboration to Build Community Resilience in Northern Virginia. Timeline presented within the Fairfax County FY 2022 FY 2026 Capital Improvement Program, Stormwater Management. Phased implementation plans presented in the Fairfax County Watershed Management Plans.
- Element 5: Is based on the best available science, and incorporates climate change, sea level rise, storm surge (where appropriate), and current flood maps.

Meets criteria as written.

a. The 2018 Resilient Critical Infrastructure Roadmap for Northern Virginia (Roadmap) incorporates best available science and identifies actions to potentially decrease the severity of future consequences emanating from climate and extreme weather, to include sea level rise and storm surge. Sea Level Rise: Impact on Northern Virginia is an interactive story map and dashboard that was created in 2019 to convey the impact of sea level rise scenarios. The Northern Virginia Hazard Mitigation Plan includes analyses of natural hazards based on best available science to include flooding, sea level rise and land subsidence, tropical and coastal storms, and shoreline erosion.

VA DCR looks forward to working with you as you work to make Fairfax County a more resilient community. If you have questions or need additional assistance, please contact us at cfpf@dcr.virginia.gov. Again, thank you for your interest in the Community Flood Preparedness Fund.

Sincerely,

Wendy Howard Cooper, Director

Shedy there & Degree

Dam Safety and Floodplain Management

cc: Darryl Glover, DCR

Appendix A: Application Form for Grant Requests for All Categories

Virginia Department of Conservation and Recreation Virginia Community Flood Preparedness Fund Grant Program Name of Local Government: Fairfax County Category of Grant Being Applied for (check one): Capacity Building/Planning Project X Study NFIP/DCR Community Identification Number (CID) 515525 If a state or federally recognized Indian tribe, Name of tribe N/A Name of Authorized Official: Bryan J. Hill, County Excutive Signature of Authorized Official: Mailing Address (1): 12000 Government Center Parkway Mailing Address (2): Suite 552 State: VA City: Fairfax _Zip: _ 22035 Telephone Number: (703) 324-2531 Cell Phone Number: () N/A Email Address: cexbryanhill@fairfaxcounty.gov

Co	ntact Person (If different from authorized official): Craig Carinci
Ma	ailing Address (1):12000 Government Center Parkway
Ma	ailing Address (2):Suite 449
Cit	y: Fairfax State: VA zip: 22035
Te	lephone Number: () <u>N/A</u>
En	nail Address:Craig.Carinci@fairfaxcounty.gov
Is	the proposal in this application intended to benefit a low-income geographic area as defined
in	the Part 1 Definitions? Yes No _X_
Ca	tegories (select applicable project):
Pr	oject Grants (Check All that Apply)
	Acquisition of property (or interests therein) and/or structures for purposes of allowing floodwater inundation, strategic retreat of existing land uses from areas vulnerable to flooding; the conservation or enhancement of natural flood resilience resources; or acquisition of structures, provided the acquired property will be protected in perpetuity from further development.
	Wetland restoration. Floodplain restoration. Construction of swales and settling ponds.
	Living shorelines and vegetated buffers. Structural floodwalls, levees, berms, flood gates, structural conveyances. Storm water system upgrades.
	Medium and large scale Low Impact Development (LID) in urban areas. Permanent conservation of undeveloped lands identified as having flood resilience value by ConserveVirginia Floodplain and Flooding Resilience layer or a similar data driven analytic tool.
D	Dam restoration or removal.
	Stream bank restoration or stabilization.
D	Restoration of floodplains to natural and beneficial function. Developing flood warning and response systems, which may include gauge installation, to notify residents of potential emergency flooding events.

Sti	udy Grants (Check All that Apply)			
×	Studies to aid in updating floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.			
П	Revising other land use ordinances to incorporate flood protection and mitigation goals, standards and practices.			
×	Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA). For example, a local government might conduct a hydrologic and hydraulic study for an area that had not been studied because the watershed is less than one square mile. Modeling the floodplain in an area that has numerous letters of map change that suggest the current map might not be fully accurate or doing a detailed flood study for an A Zone is another example.			
П	Studies and Data Collection of Statewide and Regional Significance.			
D	Revisions to existing resilience plans and modifications to existing comprehensive and hazard.			
U	Other relevant flood prevention and protection project or study.			
Ca	pacity Building and Planning Grants			
U	Floodplain Staff Capacity.			
Ö	Resilience Plan Development			
	 Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans. Resource assessments, planning, strategies and development. Policy management and/or development. Stakeholder engagement and strategies. 			

Location of Project (Include Maps): 27 Fairfax County Watersheds

NFIP Community Identification Number (CID#):(See appendix F 515525

Is Project Located in an NFIP Participating Community?
Is Project Located in a Special Flood Hazard Area?
Flood Zone(s) (If Applicable): SFHA Zones A and AE
Flood Insurance Rate Map Number(s) (If Applicable): See spreadsheet
Total Cost of Project: \$1,200,000
Total Amount Requested \$600,000

FEMA FIRM P	anels
Panel	Effective Date
51059CIND0A	9/17/2010
51059C0020E	9/17/2010
51059C0040E	9/17/2010
51059C0045E	9/17/2010
51059C0065E	9/17/2010
51059C0095E	9/17/2010
51059C0110E	9/17/2010
51059C0115E	9/17/2010
51059C0120E	9/17/2010
51059C0130E	9/17/2010
51059C0135E	9/17/2010
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51059C0405E	9/17/2010
51059C0410E	9/17/2010
51059C0415E	9/17/2010
51059C0430E	9/17/2010
51059C0435E	9/17/2010

Appendix C: Scoring Criteria for Studies

Virginia Department of Conservation and Recreation Virginia Community Flood Preparedness Fund Grant Program

Applicant Name: Fairfax County					
			Eligibility Information		
	Criterion		Description	Check One	
1.	authorities	, districts	cal government (including counties, cities, towns, municipal corpo s, commissions, or political subdivisions created by the General Ass estitution or laws of the Commonwealth, or any combination of th	sembly or	
	Yes	Eligible	for consideration	X	
	No	Not elig	ible for consideration		
2.	Does the lo	_	rnment have an approved resilience plan and has provided a copy cation?	or link to the	
	Yes	Eligible	for consideration under all categories	X	
	No	Eligible for consideration for studies, capacity building, and planning only			
3.	3. If the applicant is <u>not a town, city, or county</u> , are letters of support from all affected local governments included in this application?			ocal	
	Yes Eligible for consideration				
	No Not eligible for consideration				
4.	4. Has this or any portion of this project been included in any application or program previously funded by the Department?				
	Yes	Not elig	ible for consideration		
	No	Eligible	for consideration	X	
5.	Has the app	olicant pr	rovided evidence of an ability to provide the required matching fu	nds?	
	Yes	Eligible	for consideration	X	
	No	Not elig	ible for consideration		
	N/A	Match r	not required		

Studies Eligible for Consideration			(Yes No
Applicant Name:	Fairfax County		
	Scoring Information		
	Criterion	int	Points Awarde d
6. Eligible Studies (Select	t all that apply)		
incorporate higher standar include establishing proces limited to, permitting, reco revising a floodplain ordina Rate Maps (FIRMs), updati	nces to maintain compliance with the NFIP or to rds that may reduce the risk of flood damage. This must sses for implementing the ordinance, including but not ord retention, violations, and variances. This may include ance when the community is getting new Flood Insurance ing a floodplain ordinance to include floodplain setbacks g issues identified in a Corrective Action Plan.	0	30
Creating tools or applications to identify, aggregate, or display information on flood risk or creating a crowd-sourced mapping platform that gathers data points about real-time flooding. This could include a locally or regionally based web-based mapping product that allows local residents to better understand their flood risk.			
Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA).		5	35
	n of Statewide and Regional Significance. Funding of egional significance and proposals will be considered for dies:		
	es) including such data at a sub-state or regional scale on 4	.5	
Regional relative se impacts.	ea level rise projections for use in determining future 4	5	
water supply, wate	rsis either statewide or regionally to state transportation, er treatment, impounding structures, or other significant cture from flooding.	.5	
Flash flood studies	and modeling in riverine regions of the state.	.5	
Statewide or regio existing gauge net	nal stream gauge monitoring to include expansion of works.	5	

New or updated delineations of areas of recurrent flooding, stormwater flooding, and storm surge vulnerability in coastal areas that include projections for future conditions based on sea level rise, more intense rainfall events, or other relevant flood risk factors.	45			
 Regional flood studies in riverine communities that may include watershed- scale evaluation, updated estimates of rainfall intensity, or other information. 	50			
🗶 Regional hydrologic and hydraulic studies of floodplains.	45	45		
 Studies of potential land use strategies that could be implemented by a local government to reduce or mitigate damage from coastal or riverine flooding. 	40			
 Other proposals that will significantly improve protection from flooding on a statewide or regional basis 	35			
7. Is the study area socially vulnerable? (Based on ADAPT VA's Social Vulnerability	Index Sco	re.)		
Very High Social Vulnerability (More than 1.5)	15			
High Social Vulnerability (1.0 to 1.5)	12			
Moderate Social Vulnerability (0.0 to 1.0)	8			
Low Social Vulnerability (-1.0 to 0.0)				
Very Low Social Vulnerability (Less than -1.0)				
8. Is the proposed study part of an effort to join or remedy the community's probation or suspension from the NFIP?				
Yes	10			
No 0				
9. Is the proposed study in a low-income geographic area as defined in this manua	1?			
Yes	10			
No	0	0		
10. 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?				
Yes	5			
No	0	0		
Total Points		105		

Appendix D: Checklist All Categories

Virginia Department of Conservation and Recreation

Community Flood Preparedness Fund Grant Program

Scope of Work Narrative				
Supporting Documentation	Included			
Detailed map of the project area(s) (Projects/Studies)	X Yes □ No □ N/A			
FIRMette of the project area(s) (Projects/Studies)	X Yes □ No □ N/A			
Historic flood damage data and/or images (Projects/Studies)	X Yes □ No □ N/A			
A link to or a copy of the current floodplain ordinance	X Yes □ No □ N/A			
Non-Fund financed maintenance and management plan for project extending a minimum of 5 years from project close	□ Yes □ No 🕱 N/A			
A link to or a copy of the current hazard mitigation plan	X Yes □ No □ N/A			
A link to or a copy of the current comprehensive plan	X Yes □ No □ N/A			
Social vulnerability index score(s) for the project area from ADAPT VA's Virginia Vulnerability Viewer	X Yes □ No □ N/A			
If applicant is not a town, city, or county, letters of support from affected communities	□ Yes □ No 🕱 N/A			
Completed Scoring Criteria Sheet in Appendix B, C, or D	X Yes □ No □ N/A			
Budget Narrative				
Supporting Documentation	Included			
Authorization to request funding from the Fund from governing body or chief executive of the local government	X Yes □ No □ N/A			
Signed pledge agreement from each contributing organization	□ Yes □ No 🕱 N/A			



CFPF, rr <cfpf@dcr.virginia.gov>

CID515525_FairfaxCounty_CFPF Applications

2 messages

Torgersen, Catherine S < Catherine. Torgersen@fairfaxcounty.gov>

Tue, Apr 5, 2022 at 4:31 PM

To: "cfpf@dcr.virginia.gov" <cfpf@dcr.virginia.gov>

Cc: "Pokharel, Sajan" <Sajan.Pokharel@fairfaxcounty.gov>, "Habete, Daniel" <Daniel.Habete@fairfaxcounty.gov>, "Calmbacher, Joni" < Joni. Calmbacher@fairfaxcounty.gov>, "Wilkins, Fred H." < Fred. Wilkins@fairfaxcounty.gov>, "Carinci, Craig A." <Craig.Carinci@fairfaxcounty.gov>, "Ambrose, Heather" <Heather.Ambrose@fairfaxcounty.gov>, "Gutzler, Emma B." < Emma. Gutzler@fairfaxcounty.gov >

Good afternoon,

Fairfax County is pleased to submit the following five applications for grant round 3 of the Virginia Community Flood Preparedness Fund:

- 1. CID515525 FairfaxCounty CFPF-1 Tucker Avenue Neighborhood Stormwater Improvement Project Application
- 2. CID515525 FairfaxCounty CFPF-2 Chowan Avenue Stormwater Improvement Project Application
- 3. CID515525 FairfaxCounty CFPF-3 Little Pimmit Run Tributary at Woodland Terrace Project Application
- 4. CID515525 FairfaxCounty CFPF-4 Tripps Run at Barrett Road Flood Mitigation Project Application
- 5. CID515525 FairfaxCounty CFPF-5 Regulated Floodplain Map Updates Study Application

The applications are available for download at the following Sharefile link: https://fairfaxcounty-ent.sharefile.com/ds52b8f9fb46c444d8a5ecbe1f4ad3dd45

Please let me know if you are unable to download the applications or if you have any questions.

Thank you,

Catie Torgersen

Planner

Stormwater Planning Division, SWPD Fairfax County DPWES

12000 Government Center Parkway Fairfax, VA 22035 703-639-7664 (cell)

CFPF, rr <cfpf@dcr.virginia.gov>

Wed, Apr 6, 2022 at 10:00 AM

To: "Torgersen, Catherine S" < Catherine. Torgersen@fairfaxcounty.gov>

Cc: "Pokharel, Sajan" <Sajan.Pokharel@fairfaxcounty.gov>, "Habete, Daniel" <Daniel.Habete@fairfaxcounty.gov>, "Calmbacher, Joni" <Joni.Calmbacher@fairfaxcounty.gov>, "Wilkins, Fred H." <Fred.Wilkins@fairfaxcounty.gov>, "Carinci, Craiq A." <Craiq.Carinci@fairfaxcounty.gov>, "Ambrose, Heather" <Heather.Ambrose@fairfaxcounty.gov>, "Gutzler, Emma B." < Emma. Gutzler@fairfaxcounty.gov>

Received

On Tue, Apr 5, 2022 at 4:31 PM Torgersen, Catherine S < Catherine. Torgersen@fairfaxcounty.gov > wrote:

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Catie Torgersen

Planner

Stormwater Planning Division, SWPD Fairfax County DPWES

12000 Government Center Parkway Fairfax, VA 22035 703-639-7664 (cell)



County of Fairfax, Virginia

To protect and enrich the quality of life for the people, neighborhoods and diverse communities of Fairfax County

November 29, 2022

Ms. Wendy Howard Cooper, Director Dam Safety and Floodplain Management Department of Conservation and Recreation East Main Street, 24th Floor Richmond, Virginia 23219

Reference: Regulated Floodplain Map Updates Study Application (CFPF-22-03-18)

Dear Ms. Howard Cooper:

This letter is in response to your September 30, 2022, letter (attached) requesting additional information for the Regulated Floodplain Map Updates Study Application (CFPF-22-03-18). The following information was requested:

- Applicant must provide detailed allocation of match across all grant applications to verify \$7M proposed match is not over allocated.
- If a grant is awarded, it will be subject to the following condition the County must submit Letter of Map Revision (LOMR) within six months of technical data completion.

The attached letter from the County Executive confirmed the County will provide the necessary match for the study as required by your department, subject to Fairfax County Board of Supervisors approval. The study application was also revised to reflect your feedback. The *Budget Narrative* section of the application includes an updated project cost and grant funding request. The *Study Benefits* section of the application explains why the County will not apply for a LOMR or Physical Map Revision through the Federal Emergency Management Agency.

If you have any questions or need additional assistance, please contact me at 703-324-5864.

Sincerely,

Docusigned by:

Catherine Torgersen

Catie Torgersen, Planner IV Stormwater Planning Division

Attachments: As stated

cc: Craig Carinci, Director, Department of Public Works and Environmental Services, Stormwater Planning Division



www.fairfaxcounty.gov/publicworks

Attachment 1

Frank N. Stovall Deputy Director for Operations

Darryl Glover Deputy Director for Dam Safety. Floodplain Management and Soil and Water Conservation

Laura Ellis Interim Deputy Director for Administration and Finance

September 30, 2022

Bryan J. Hill, County Executive 12000 Government Center Parkway Suite 552 Fairfax, VA 22035 cexbryanhill@fairfaxcounty.gov

Re: Community Flood Preparedness Fund (CFPF)

CY2022 Round 3 Grant Application: Grant Number: CFPF-22-03-18 Application Category: Flood Prevention and Protection Studies

Community Name: FAIRFAX COUNTY, CID: 515525

Primary Contact: Craig Carinci,

Primary Contact Email Address: craig.carinci@fairfaxcounty.gov

CFPF Amount Requested: \$600,000.00 Match Amount Required: \$600,000.00 Total Project Cost: \$1,200,000.00

Dear Bryan J. Hill:

Thank you for your interest in Grant Round Three of the Community Flood Preparedness Fund (the Fund). The Department of Conservation and Recreation (DCR, or the Department) advertised that \$40 million would be made available for this Grant Round; we received 64 applications for this Round with Grant requests totaling nearly \$93 million.

We have reviewed your grant application and believe that your proposal may meet the purpose of the Fund and the requirements of the Grant Manual. However, without additional information, we are unable to make a final determination that would lead to a grant award.

Given the importance of addressing flooding and resilience challenges, and the level of interest in this Grant Round, the Department is providing applicants whose projects may meet grant qualifications, but where additional information is required, with a supplemental review period in which to submit information. Further, in order to provide support to as many beneficial projects as possible, the Secretary of Natural and Historic Resources has authorized the Department to release an additional \$30 million in funding for this Grant Round.

For your application to be considered during this supplemental review, please notify the Department of your interest in writing no later than October 14th, 2022 and submit the following information to the Department no later than 5:00 pm on November 30th.

A final determination on awards will be made by December 30th, 2022. Correspondence with the Department in this matter should be directed to cfpf@virginia.gov.

- Applicant must provide detailed allocation of match across all grant applications to verify \$7M proposed match is not over allocated.
- If a grant is awarded, it will be suject to the following conditionCounty must submit LOMR within six months of technical data completion.

Note that this is a request for additional information about the project described in GRANT APPLICATION NUMBER(S). The Department is not accepting applications for new projects or substantial changes to existing project proposals. Submitting the information requested by the Department does not guarantee that your application will be approved; however, without this additional information the Department will not be able to approve your application.

If you have questions or wish to schedule a meeting with the Department to discuss your application prior to the November 30th deadline, we will be happy to meet with you. Please direct these inquiries to Wendy Howard-Cooper at wendy.howard-cooper@dcr.virginia.gov.

Thank you again for your interest in the Community Flood Preparedness Fund, and for your work to address this important issue.

Sincerely,

Wendy Howard Cooper

Director, Dam Safety and Floodplain Management

Sendy Howard Cooper

cc: Darryl M. Glover, Deputy Director, DCR Kimberly S. Adams, Senior Program Manager, VRA Angela Davis, Flood Program Planner, DCR



County of Fairfax, Virginia

To protect and enrich the quality of life for the people, neighborhoods and diverse communities of Fairfax County

Ms. Wendy Howard Cooper, Director Director, Dam Safety and Floodplain Management Department of Conservation and Recreation East Main Street, 24th Floor Richmond, Virginia 23219

Reference:

Community Flood Preparedness Fund, CY2022 Round 3 Grant Application,

Regulated Floodplain Map Updates Study Application (CFPF-22-03-18)

Dear Ms. Howard Cooper:

This letter is in response to your September 30, 2022 (attached), letter requesting Fairfax County's (County's) confirmation of further consideration of the Regulated Floodplain Map Updates Study application (CFPF-22-03-18) during the supplemental review period for the Community Flood Preparedness Fund (CFPF). The County is still interested in having this project application considered to receive funding through the CFPF.

If the grant is awarded, the County will provide the necessary match for the project (\$600,000.00) as required by your department, subject to Fairfax County Board of Supervisors approval. It is understood that the County's total match amount for all four applications being considered during the supplemental review may be as much as \$9,184,400.00.

The County will provide the requested information for the Regulated Floodplain Map Updates Study application (CFPF-22-03-18) to your department no later than 5:00 pm on November 30, 2022, as documented in your letter.

If you have any questions or need additional assistance, please contact Craig Carinci, Director Stormwater Planning Division at 703-324-5500.

Sincerely,

Bryan J. Hill

County Executive

Attachment: Community Flood Preparedness Fund (CFPF): Application CFPF-22-03-18

cc:

Rachel Flynn, Deputy County Executive

Christopher Herrington, Director, Department of Public Works and Environmental Services

(DPWES)

Eleanor Ku Codding, Deputy Director, DPWES, Stormwater and Wastewater Divisions

Craig Carinci, Director, DPWES, Stormwater Planning Division



September 30, 2022

Frank N. Stovall Deputy Director for Operations

Darryl Glover
Deputy Director for
Dam Safety,
Floodplain Management and
Soil and Water Conservation

Laura Ellis Interim Deputy Director for Administration and Finance

Bryan J. Hill, County Executive 12000 Government Center Parkway Suite 552 Fairfax, VA 22035 cexbryanhill@fairfaxcounty.gov

Re: Community Flood Preparedness Fund (CFPF)

CY2022 Round 3 Grant Application: Grant Number: CFPF-22-03-18

Application Category: Flood Prevention and Protection Studies

Community Name: FAIRFAX COUNTY, CID: 515525

Primary Contact: Craig Carinci,

Primary Contact Email Address: craig.carinci@fairfaxcounty.gov

CFPF Amount Requested: \$600,000.00 Match Amount Required: \$600,000.00 Total Project Cost: \$1,200,000.00

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We have reviewed your grant application and believe that your proposal <u>may</u> meet the purpose of the Fund and the requirements of the Grant Manual. However, without additional information, we are unable to make a final determination that would lead to a grant award.

Given the importance of addressing flooding and resilience challenges, and the level of interest in this Grant Round, the Department is providing applicants whose projects may meet grant qualifications, but where additional information is required, with a supplemental review period in which to submit information. Further, in order to provide support to as many beneficial projects as possible, the Secretary of Natural and Historic Resources has authorized the Department to release an additional \$30 million in funding for this Grant Round.

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Thank you again for your interest in the Community Flood Preparedness Fund, and for your work to address this important issue.

Sincerely,

Findy Howard Cooper

Wendy Howard Cooper

Director, Dam Safety and Floodplain Management

cc: Darryl M. Glover, Deputy Director, DCR Kimberly S. Adams, Senior Program Manager, VRA Angela Davis, Flood Program Planner, DCR

Appendix A: Application Form for Grant Requests for All Categories

Virginia Department of Conservation and Recreation Virginia Community Flood Preparedness Fund Grant Program

Name of Local Government:
Fairfax County
Category of Grant Being Applied for (check one):
Capacity Building/Planning
Project
XStudy
NFIP/DCR Community Identification Number (CID) 515525
If a state or federally recognized Indian tribe, Name of tribe N/A
Name of Authorized Official: Christopher Herrington, Director Department of Public Works and Environmental Services
Signature of Authorized Official: Chustoper Heungton
Mailing Address (1):12000 Government Center Parkway
Mailing Address (2): Suite 448
City: Fairfax State: VA Zip: 22035
Telephone Number: (_703) <u>324-5033</u>
Email Address:christopher.herrington@fairfaxcounty.gov

Coı	ontact Person (If different from a	uthorized	official)	: Craig Ca	<u>rinci</u>	
Ma	ailing Address (1): _ 12000 Gove	ernment C	Center F	Parkway		
Ma	ailing Address (2): Suite 449					
City	ty:_Fairfax	State:	VA		_ Zip : _2203	35
Tel	elephone Number: (<u>703</u>)3 <u>24-55</u>	500	_ Cell Pl	none Numbe	er: () <u>N/</u>	<u>'A</u>
Em	mail Address: <u>craig.carinci@fa</u>	irfaxcoun	ty.gov			
in t	the proposal in this application in the Part 1 Definitions? Yesategories (select applicable proje	No <u>X</u>		t a low-inco	me geograpl	hic area as defined
	oject Grants (Check All that App	·				
	Acquisition of property (or interfloodwater inundation, strategi flooding; the conservation or eracquisition of structures, provide from further development.	c retreat o nhancemer	f existin nt of nat	g land uses t cural flood re	from areas v esilience res	rulnerable to ources; or
	Living shorelines and vegetated Structural floodwalls, levees, be Storm water system upgrades. Medium and large scale Low Impermanent conservation of und ConserveVirginia Floodplain and	buffers. erms, flood pact Deve leveloped l	gates, s lopmen ands ide	t (LID) in urb entified as h	an areas. aving flood 1	•
	tool. Dam restoration or removal. Stream bank restoration or stak Restoration of floodplains to na Developing flood warning and r notify residents of potential em	tural and be	vstems,	which may i	nclude gaug	e installation, to

Study Grants (Check All that Apply)

X	Studies to aid in updating floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.
	Revising other land use ordinances to incorporate flood protection and mitigation goals, standards and practices.
X	Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA). For example, a local government might conduct a hydrologic and hydraulic study for an area that had not been studied because the watershed is less than one square mile. Modeling the floodplain in an area that has numerous letters of map change that suggest the current map might not be fully accurate or doing a detailed flood study for an A Zone is another example.
	Studies and Data Collection of Statewide and Regional Significance.
	Revisions to existing resilience plans and modifications to existing comprehensive and hazard.
	Other relevant flood prevention and protection project or study.
<u>Ca</u>	pacity Building and Planning Grants
	Floodplain Staff Capacity.
	Resilience Plan Development
	 Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans. Resource assessments, planning, strategies and development. Policy management and/or development. Stakeholder engagement and strategies.
Loc	cation of Project (Include Maps): _27 Fairfax County Watersheds
NF	IP Community Identification Number (CID#):(See appendix F 515525

Is Project Located in an NFIP Participating Community?
Is Project Located in a Special Flood Hazard Area?
Flood Zone(s) (If Applicable): SFHA Zones A and AE
Flood Insurance Rate Map Number(s) (If Applicable): See spreadsheet
Total Cost of Project: \$640,000
Total Amount Requested \$320,000

FEMA FIRM Panels			
Panel	Effective Date		
51059CIND0A	9/17/2010		
51059C0020E	9/17/2010		
51059C0040E	9/17/2010		
51059C0045E	9/17/2010		
51059C0065E	9/17/2010		
51059C0095E	9/17/2010		
51059C0110E	9/17/2010		
51059C0115E	9/17/2010		
51059C0120E	9/17/2010		
51059C0130E	9/17/2010		
51059C0135E	9/17/2010		
51059C0140E	9/17/2010		
51059C0145E	9/17/2010		
51059C0155E	9/17/2010		
51059C0160E	9/17/2010		
51059C0165E	9/17/2010		
51059C0170E	9/17/2010		
51059C0180E	9/17/2010		
51059C0190E	9/17/2010		
51059C0210E	9/17/2010		
51059C0230E	9/17/2010		
51059C0235E	9/17/2010		
51059C0240E	9/17/2010		
51059C0245E	9/17/2010		
51059C0255E	9/17/2010		
51059C0260E	9/17/2010		
51059C0265E	9/17/2010		
51059C0270E	9/17/2010		
51059C0280E	9/17/2010		
51059C0285E	9/17/2010		
51059C0290E	9/17/2010		
51059C0295E	9/17/2010		
51059C0315E	9/17/2010		
51059C0320E	9/17/2010		
51059C0335E	9/17/2010		
51059C0355E	9/17/2010		
51059C0360E	9/17/2010		
51059C0370E	9/17/2010		
51059C0380E	9/17/2010		
51059C0385E	9/17/2010		
51059C0390E	9/17/2010		
51059C0395E	9/17/2010		
51059C0405E	9/17/2010		
51059C0410E	9/17/2010		
51059C0415E	9/17/2010		
51059C0430E	9/17/2010		
51059C0435E	9/17/2010		

FAIRFAX COUNTY

REGULATED FLOODPLAIN MAP UPDATES

Virginia Community Flood Preparedness Fund

FY 2022 ROUND 3 GRANT APPLICATION

CID515525_FairfaxCounty_CFPF-5 (Map Updates)

April 8, 2022

Revised November 18, 2022



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Attachments

Attachment A- Detailed map of the study area

Attachment B- FIRMs of the study area

Attachment C- Historic flood damage images

Attachment D- Social vulnerability index score from ADAPT VA's Virginia Vulnerability Viewer

Attachment E- Approved Resilience Plan

Appendices

Appendix A – Application Form for Grant Requests for All Categories

Appendix B – Scoring Criteria for Studies Form

Appendix D – Checklist for all Categories

Executive Summary

The Fairfax County regulated floodplain mapping study will consolidate multiple flood hazard data sources into one comprehensive map for regulatory use, increase community flood risk awareness, and allow the County to integrate the impacts of climate change into its floodplain management program. To be able to complete the first phase of the study, the County is requesting 50% of the total remaining cost of the project (\$640,000) or \$320,000. If the grant is awarded and the study moves forward, the County can compete the development of preliminary HEC-RAS hydraulic models for 16 remaining watersheds, approximately 401 stream miles (excluding the 56 stream miles completed as part of the pilot and the 355 stream miles that have already been tasked and encumbered), and advance the mapping of all floodplains 70 acres or greater in the County.

A. Scope of Work Narrative

Fairfax County regulates proposed uses and disturbances in the 100-year flood inundation area associated with open channel conveyance systems that have a contributing drainage area of 70 acres or more. The location of the base flood elevation (BFE) is required for demonstrating compliance with all applicable Federal, State, and County floodplain regulations.

There are three distinct types of regulated floodplains in Fairfax County:

- Minor floodplains include drainage areas between 70 acres and 360 acres.
- Major floodplains consist of drainage areas 360 acres or greater.
- Areas that are designated as floodplain by the National Flood Insurance Program (NFIP) are shown on the Flood Insurance Rate Maps (FIRMs) issued by the Federal Emergency Management Agency (FEMA) – generally, for areas one square mile (640 acres) or greater.

Currently, existing floodplain boundaries and water surface elevations are available from several sources and a significant portion of County regulated floodplain is not mapped. This missing or conflicting flood hazard data creates confusion during floodplain study development, review, and enforcement. Rather than having multiple sources for flood hazard data, the County plans to develop a comprehensive regulated floodplain map. The updated map and water surface elevations will be used to provide clear and consistent BFEs for proposed development in or adjacent to all regulated floodplains, increase community flood risk awareness, and allow for the incorporation of future climate projection conditions.

Background

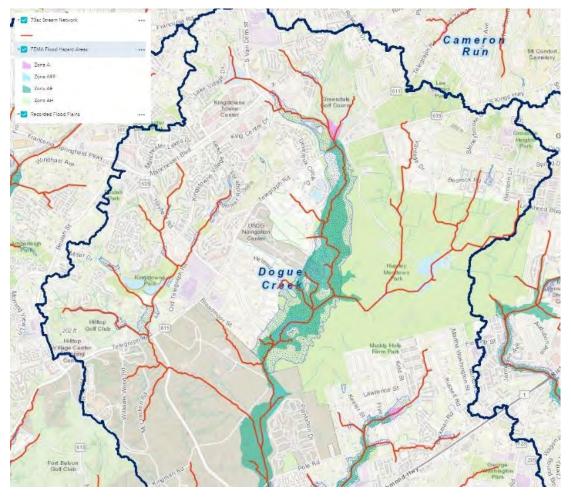
Unlike FIRMs which are developed using existing land use conditions, major and minor floodplains developed by the County reflect ultimate (future) conditions. The County's floodplain ordinance requires that new and substantially improved existing dwellings located on parcels with floodplain must elevate the lowest part of the lowest floor of all living space, including basements, at least 18 inches above the applicable BFE for the property, and the dwellings must be at least 15 feet from the floodplain boundary. For development in the regulated floodplain, the floodplain water surface elevation must be computed to establish the actual floodplain boundary and a floodplain easement must typically be dedicated to the County.

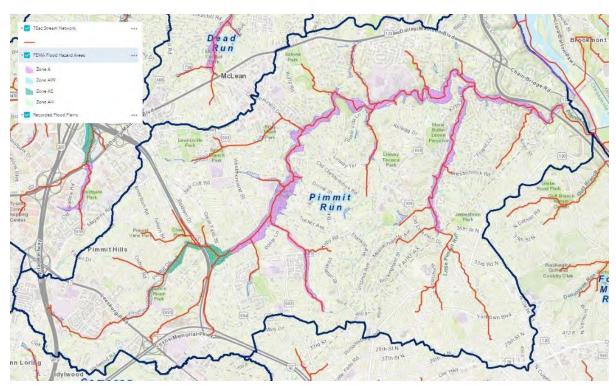
There are multiple County Geographic Information System (GIS) floodplain layers that each have their own history and uses; however, they are all referred to as floodplain and are used in the County's plan review process to flag potential construction in these areas. Available floodplain boundaries and water surface elevations come from several sources, including floodplain studies performed by the United States Geological Survey and FEMA and approved floodplain studies that have been performed by

engineers in conjunction with prior land development. Floodplain information is available on the publicly accessible County Floodplain Viewer

Not all County regulated floodplain is mapped. For instance, Fairfax County has older neighborhoods that developed in the 1950s and 1960s prior to modern floodplain regulations. These communities may include piped or channelized streams in minor floodplains that lack mapped floodplain boundaries and BFEs. See examples in Maps 1 and 2 below. The red 70-acre stream network line represents potential County regulated floodplain. As shown on the maps, many sections of the regulated floodplain lack recorded floodplain boundaries.

Map 1. Unmapped regulated floodplain within Dogue Creek watershed





Map 2. Unmapped regulated floodplain within Pimmit Run watershed

As the County reaches buildout conditions and large tracts of green space are no longer available for new subdivisions, much of the residential development in these older neighborhoods has shifted to lot-by-lot infill redevelopment. For residential infill development in and adjacent to unmapped regulated floodplain, the County must rely on very limited floodplain studies completed as a part of the infill plan to review and enforce floodplain regulations.

Additionally, FEMA completed a multi-year project to reexamine Fairfax County's flood zones and produce detailed digital flood hazard maps. The preliminary updated FIRMs, which reflect the flood risk based on the latest data, have been released for public review. The County held a series of virtual public meetings to provide more information on the proposed changes and respond to questions from residents.

Study Description

Fairfax County will complete modeling and mapping of the remaining 757 stream miles with County regulated floodplains in the remaining 27 designated watersheds. This study includes both updates to prior mapped floodplains and new floodplain models and mapping. Given the size and complexity of this effort, the study will be split into a pilot and two phases.

The County completed a pilot study on three watersheds- Dogue Creek, Pimmit Run, and Little Hunting Creek (total of 56 stream miles)- to establish standard means and methods to develop the regulated floodplain map updates. The pilot study prepared the most current terrain data for the County and developed appropriate hydrologic and hydraulic modeling of all streams with drainage areas of 70 acres or greater. The pilot study scope included obtaining and preparing terrain data for use in the hydrologic and hydraulic (H&H) analyses, identifying data for bridges and culverts, establishing 100-year elevations using steady-state one-dimensional modeling, and mapping the results for the three watersheds. The

County recently initiated Phase I of the study to develop a preliminary HEC-RAS hydraulic model for the remaining 27 watersheds. The HEC-RAS models for each watershed will establish preliminary floodplain mapping (within RAS Mapper), flow velocities, profiles, and rating tables. Phase II of the study, which includes the final HEC-RAS model with bridges and culverts incorporated and final floodplain mapping, will be submitted as a separate study application under a future grant round.

The Phase I of the study will be completed by Atkins. The firm is a consultant with a County Basic Ordering Agreement (BOA) for Flood Mitigation and Monitoring and Dam Safety Program Services. Attachment 1 is the Request for Qualifications that the firm had to meet to be awarded this BOA.

Study Benefits

The County regulated floodplain updates will consolidate multiple flood hazard data sources into one comprehensive map for regulatory use, eliminating conflicting water surface boundaries and generating BFEs for unmapped regulated floodplains. The study will also revise and clarify various references to floodplain mapping studies in the Floodplain Ordinance, County Public Facilities Manual (PFM), and the County Code of Ordinances. Fairfax County floodplain management regulations are codified in Section 5105 of the Zoning Ordinance. The PFM details the appropriate methods and guidelines for water surface calculations and floodplain easements. Appendix A of the County code describes some of the maps and studies used to depict the areas designated as floodplain by Fairfax County. These three regulatory documents will be revised to reflect the new comprehensive County regulated floodplain map.

The study allows the County to integrate climate change into the regulated floodplains. The County is embarking on Resilient Fairfax, a formal and holistic effort to address climate adaption and resilience. The Resilient Fairfax plan will develop a climate projections report with future predicted climate conditions (https://www.fairfaxcounty.gov/environment-energy-coordination/resilient-fairfax). Data from this report can be integrated into the new or updated floodplain models to reflect anticipated future precipitation trends.

The study will also increase community flood risk awareness by mapping previously unmapped floodplain. Following the completion of Phase II, the County will embark on a significant public outreach program to notify residents that they are in a newly mapped floodplain, advise them on how to prepare for flooding, and share resources related to flood protection and insurance.

Although the study will use the best available technical data, there will be no new data based on the FEMA floodplain requirements. As noted previously, Fairfax County regulates all floodplains with drainage areas over 70 acres. Approximately 50 percent of the stream miles undergoing map updates are outside of Special Flood Hazard Areas (SFHAs). FEMA mapped SFHAs are primarily based on existing condition flows and are used to determine mandatory flood insurance purchase requirements. For the 50 percent of stream miles inside SFHAs, the County uses ultimate development condition flows rather than existing land use conditions. As a result, the County will not apply for a Letter of Map Revision or Physical Map Revision through FEMA.

With 1,167,000 residents, Fairfax County is more populous than six states (Alaska, Montana, North Dakota, Rhode Island, South Dakota, Vermont, and the District of Columbia) and accounts for about 13% of the total population of Virginia. Providing comprehensive, accurate, and consistent regulated

floodplain maps will benefit not only the County, but also more than a tenth of Virginia residents. The maps will help increase flood risk awareness for residents located in and adjacent to previously unmapped floodplains, developers to better incorporate flood prevention and protection techniques into their construction plans, and the County to better review and enforce its robust floodplain management regulations.

COUNTY OF FAIRFAX DEPARTMENT OF PUBLIC WORKS & ENVIRONMENTAL SERVICES FLOOD MITIGATION AND MONITORING & DAM SAFETY PROGRAM SERVICES

REQUEST FOR QUALIFICATIONS (RFQ)

SCOPE OF WORK

The County of Fairfax, Virginia, Department of Public Works and Environmental Services (DPWES) is soliciting statements of qualifications from engineering firms to provide services on a Basic Ordering Agreement (BOA) to support Fairfax County's participation in the National Federal Insurance Program (NFIP), flood mitigation and monitoring, dam safety, and other ancillary engineering services that may be needed. These services will be required on a task order basis. The initial agreement will be established to run for a 12-month term with the option of four additional 12-month terms (up to 48 months). Pursuant to Virginia State Code, BOAs have a maximum of \$5 million per year, with no individual task order exceeding \$2.5 million. However, this contract is not anticipated to exceed a total value of \$1.0 million per year. DPWES anticipates the award of one or more BOAs to support the programs described above.

Typical tasks under this COA may include but are limited to the following services:

NFIP and Floodplain Management Services

- Perform detailed Hydrologic and Hydraulic (H&H) modeling to support floodplain delineation and analysis.
- Provide engineering and ancillary services to support the county's participation in the NFIP, Cooperating Technical Partners, and Community Rating System programs.
- Assist with various tasks related to floodplain analysis, such as Letter of Map Revision (LOMRs), Conditional LOMRs (CLOMRs), coordination with FEMA, and other FEMA and floodplain management related tasks.

Dam Safety Program Services

- Geotechnical services including provisions for an on-call geotechnical engineer with expertise in dam designs and operations.
- Detailed (H&H) analyses required for Virginia State Dam Certification submissions. Such analyses include the determination of dam breach inundation zones, and incremental damage assessment.
- Develop and conduct dam safety drills and table-top exercises.
- · Perform dam inspections and monitoring.
- Perform dam piezometer monitoring and analysis.
- Perform dam emergency spillway capacity and stability and integrity analyses.
- Development of Emergency Action Plans (EAP) and the preparation of Operation and Maintenance (O&M) certificates applications for dams regulated by the state.
- Development and maintenance of response plans for areas prone to flooding such as New Alexandria.

Fairfax County, Department of Public Works & Environmental Services Flood Mitigation & Monitoring, Dam Safety Program Services March 6, 2020

Project implementation Support and General Engineering Services

- Performance of detailed land surveys, bathymetric surveys, and the preparation of elevation certificates and plats.
- · Delineation of wetlands.
- Support for the acquisition of hydrologic data, geotechnical. investigations, or other purposes.
- AutoCAD drafting and plan preparation services.
- Modeling green infrastructure and Stormwater management facility rehabilitation and retrofit designs.
- Acquire federal, state, and local permits required for construction.
- · Preparing and conducting presentations at public meetings during non-business hours
- Other related ancillary services.

Consultants who wish to be considered for this work must submit eight (8) hard copies copies, as well as a PDF copy on a CD of their statements of qualifications to Roz Knox, Contract Specialist, Stormwater Planning Division, Department of Public Works and Environmental Services, 12000 Government Center Parkway, Suite 449, Fairfax, Virginia 22035-0052.

The submittal must include:

- · Statements of Interest;
- GSA Standard Form 330 Part I and Part II for the primary firm and all major subconsultants; and
- List of references with current addresses and telephone numbers for recently completed projects of a similar nature.

All submissions must be complete and clearly demonstrate the capability to provide the required services. The following weighted criteria and evaluation factors will be utilized by a Selection Advisory Committee to evaluate the statement of qualifications:

Criteria No.	Criteria Description	Weight
1.	The ability and experience of firm/team to deliver work as described	25%
2.	Project teams' personnel qualifications and experience	20%
3.	Past performance history	15%
4.	Ability to meet time and budget requirements	15%
5.	Location of key project staff	10%
6.	Volume of work previously awarded by the County within the last 3	5%
7.	Recent, current, and projected workload	5%
8.	Public presentations and community coordination	5%

Fairfax County, Department of Public Works & Environmental Services Flood Mitigation & Monitoring, Dam Safety Program Services March 6, 2020

All statements of qualifications shall be delivered no later than 4:00 p.m., local prevailing time on Wednesday April 8, 2020. Statements of qualifications received after the submission deadline will not be considered. The statement of qualifications, including GSA 330 forms, shall not exceed the equivalent of thirty-five (35) pages of content (printed double-sided copies). The cover letter and binding are not included in the 35 pages.

Fairfax County is committed to paying a living wage to all qualified County employees and encourages contractors and sub-contractors involved in all County programs, services, and activities to pay a living wage to their employees.

All questions related to this solicitation should be directed to Roz Knox, Contract Specialist, of Stormwater Planning Division at rosalind.knox@fairfaxcounty.gov or 703-324-5500, TTY 711.

To request this information in an alternate format, please call Roz Knox, Contract Specialist, Stormwater Planning Division, Department of Public Works and Environmental Services at 703-324-5500, TTY 711.

B. Budget Narrative

The sections below outline the anticipated expenditures for the study including the estimated total study cost, the grant funds requested, and the corresponding match to be provided by the County.

1. Estimated Total Project Cost

The estimated total study cost to complete preliminary hydraulic models is \$1,200,000. In Fairfax County, there are 812 stream miles of regulatory floodplain. The pilot studies completed in Dogue Creek, Little Hunting Creek, and Pimmit Run covered 56 stream miles. Based on these pilot studies, the estimated cost to complete the preliminary hydraulic models for the remaining stream miles is \$1,450 per mile. The County has already tasked and encumbered funds for completing preliminary hydraulic models for 11 watersheds covering 355 miles. The total cost to complete the preliminary hydraulic models for the remaining 16 watersheds (401 miles) is:

(\$1450/mile * 401 miles) = \$581,450 + 10% contingency = ~\$640,000

2. Funds Requested

The amount of funds requested from the Fund is \$320,000. This is the total amount of any grant assistance sought from the Fund. 100% of this grant will be applied to the Atkins task order to complete Phase I of the Fairfax County regulated floodplain map updates. Attachment 2 includes the task order draft proposal scope of work describing how this funding will be used.

3. Available Funds

The \$320,000 County match for the study will be allocated from the cash funds available in *Regulatory Program Support* under Fund 40100 Stormwater Services in the Fairfax County Fiscal Year 2023 budget. See Attachment 3 for the Fiscal Year 2023 County budget plan document.

4. Authorization to Request for Funding

See Attachment 4 for the Not in Package (NIP) item to the Board of Supervisors authorizing a request for funding through the grant program.

Fairfax County Atkins Flood Mitigation and Monitoring & Dam Safety Basic Ordering Agreement Request for Proposal (RFP) Task Orders #Y3-XX

_____, 2023

Task Order #Y3-XX: Preliminary floodplain mapping for 16 watersheds

Atkins is currently completing preliminary HEC-RAS models for 11 watersheds totaling 355 stream miles. Under this task order, Atkins will develop preliminary HEC-RAS models for the remaining 16 County watersheds listed below. The general scope of work is similar for all watersheds, with a total estimated 401 stream miles to be modeled (draining 70 acres or more).

- 1. Cub/Bull1
- 2. Sugarland/Horsepen
- 3. Little Rocky/Johnny Moore/Popes Head
- Pohick
- Old Mill/Wolf/Ryan's Dam/Sandy/Occoquan/Mill/Kane/High Point

Note that this is a suggested grouping and sequence. Atkins will determine the final grouping and sequence for development of preliminary hydraulic models.

Background

Fairfax County has initiated a project to complete modeling and mapping of the county's regulatory floodplains in the County's 30 designated watersheds. Pilot studies for three watersheds (Dogue Creek, Little Hunting Creek, Pimmit Run) have been completed or in progress, and Atkins is currently developing preliminary HEC-RAS models for 11 additional watersheds. Under this task order, Atkins will develop preliminary RAS hydraulic models for remaining 16 watersheds. The purpose of the preliminary hydraulic model development is to provide a starting point for final RAS models for these watersheds that includes all stream crossings and develops the final floodplain mapping. The following will serve to provide additional detail on the preliminary and final RAS models:

<u>Preliminary RAS model</u>: Automated generation of cross-sections, with Quality Control (QC) checks performed to ensure proper cross-section placement, extents, alignment, and spacing (placement checks include ensuring cross-sections are not located on top of roadways, extent and alignment checks include making sure the cross-section contains the estimated 500-year flow prism and is perpendicular to the flow prism, and spacing checks include making sure that stream meander patterns are adequately represented). The County will provide a HMS model with flows to be used for this RAS version. Flows will be provided for the 1-year, 2-year, 10-year, 50-year, 100-year, and 500-year events and used to establish water-surface elevation profiles and preliminary floodplain mapping (within RAS Mapper) for these events.

<u>Final RAS model</u>: This version will incorporate all stream crossings into preliminary RAS models previously reviewed and approved by the County. Additionally, for areas where there piped

^{&#}x27;Note Run, Creek, or Branch have been omitted from the watershed names for brevity.

systems within the floodplain, the model will utilize headwater elevations obtained from an analysis of the plped system where the open channel system enters and exits the piped system. The final RAS version will be used be used to create final 100-year, 500-year floodplain mapping and associated products for the watershed.

Note: This RFP is only for preliminary RAS models, information on final RAS models is provided for reference.

Subtasks

- The County will provide the following data to enable the development and testing of the preliminary version of HEC-RAS models:
 - a. Clipped 2018 Terrain data (Lidar raster layers) for all watersheds.
 - b. GIS layers derived from Arc Hydro to be used in configuring the geometric data for the RAS Model. This includes 70-acre stream centerlines, confluence nodes, stream crossing point layer along with any other data needed.
 - c. Final version of the configured HMS Models.

Atkins will review data provided for the County to ensure it is complete and will allow development of the preliminary RAS models detailed previously.

- 2. Atkins will utilize reach and river naming conventions in RAS developed as part of Task Order #Y1-05 (Little Hunting Creek preliminary floodplain mapping) to ensure consistency between the reach identifiers used in HMS and Arc Hydro. Naming conventions should allow users to efficiently locate flows used in RAS in the HMS models and then determine the relevant Arc Hydro elements to establish how hydrologic parameters in HMS were estimated.
- 3. Atkins will develop preliminary RAS models for the watersheds as detailed previously.
- Atkins will use the HMS model provided by the county to assign flows in the RAS flow editor and impose normal depth as downstream boundary conditions.
- Atkins will produce preliminary flood inundation maps and velocity maps in RAS Mapper for all profiles to ensure that the overall results are reasonable, and the cross-sections used in modeling the reach are extended sufficiently to capture the 500-year floodplain limits.

The final deliverables from this task would be a hydraulic model for each watershed listed in this RFP with brief documentation of the reaches modeled and naming convention.

Schedule

Atkins will provide a schedule for each task order showing when work will be initiated and completed for each watershed.

Fund 40100: Stormwater Services

Mission

To develop and maintain a comprehensive watershed and infrastructure management program to protect property, health, and safety; to enhance the quality of life; and to preserve and improve the environment for the benefit of the public. To plan, design, construct, operate, maintain, and inspect stormwater infrastructure; perform environmental assessments through coordinated stormwater and maintenance programs in compliance with all government regulations utilizing innovative techniques, customer feedback and program review; and to be responsive and sensitive to the needs of the residents, customers, and public partners.

Focus

Stormwater Services are essential to protect public safety, preserve property values and support environmental mandates such as those aimed at protecting the Chesapeake Bay and the water quality of other local jurisdictional waterways. Projects in this fund include repairs to stormwater infrastructure, measures to improve water quality such as stream stabilization, rehabilitation, safety upgrades of state regulated dams, repair and rehabilitation of underground pipe systems, surface channels, flood mitigation, site retrofits and best management practices (BMP), and other stormwater improvements.

The Board of Supervisors approved a special service district to support the Stormwater Management Program as part of the FY 2010 Adopted Budget Plan. This service district provides a dedicated funding source for both operating and capital project requirements by levying a service rate per \$100 of assessed real estate value, as authorized by Code of Virginia Ann. Sections 15.2-2400. Since FY 2010, staff has made significant progress in the implementation of watershed master plans, public outreach efforts, stormwater monitoring activities, water quality and flood mitigation project implementation and operational maintenance programs related to existing storm drainage infrastructure including stormwater conveyance, and regulatory requirements.

A rate of \$0.0400 per \$100 of assessed value has been estimated to be required to fully support the stormwater program in the future; however, staff is currently evaluating the long-term requirements for the program to address the growth in inventory and other community needs. Some of the additional community needs under evaluation include debt service to support the Board's approval of the dredging of Lake Accotink, the anticipation of additional flood mitigation requirements, and strengthening the role and financial support for the implementation of stormwater requirements associated with Fairfax County Public Schools sites under renovation. This enhanced program may require incremental changes to the rate over time and may result in a higher rate to fully support the program. Staff continues to evaluate these requirements, as well as the staffing to support them, and analyze the impact of increased real estate values and revenue projections.

One of the recent initiatives being funded by the Stormwater Fund is the new Public Works complex which will consolidate functions and operations and maximize efficiencies between the Stormwater and Wastewater Divisions. Stormwater operations are currently conducted from various locations throughout the County, and a new colocation of both Stormwater and Wastewater staff will provide efficiencies and sharing of resources. Another initiative in progress is the planned dredging of Lake Accotink. Lake Accotink is a 55-acre lake surrounded by managed conservation areas, wetlands, deciduous and evergreen forests, and historic and prehistoric sites. Over 300,000 patrons visit the park annually to enjoy a variety of facilities and activities that vary with the season. Sediment from the upstream areas of the watershed has continued to be deposited in Lake Accotink over the years filling in the lake and limiting recreational use. Estimates for the cost of dredging including sediment disposal are still under review. Staff has identified the option of a low interest loan via the Virginia Clean Water Revolving Loan Fund (VCWRLF) as the preferred funding mechanism to fund the dredging project costs. The Stormwater fund will pay the future debt costs.

While staff continues to further evaluate the impact of recent initiatives and the long-term requirements for the Stormwater Program, the FY 2023 rate will remain the same as the FY 2022 Adopted Budget Plan level of \$0.0325 per \$100 of assessed value. However, based on capital project costs and projected revenues, it is anticipated that in the next several years, incremental rate increases will be required based on continued growth of stormwater facilities and infrastructure that must be inspected and maintained by the County, the implementation of flood mitigation projects, and additional requirements in the forthcoming Municipal Separate Storm Sewer System (MS4) Permit. On an annual basis, staff will continue to evaluate the program, analyze future requirements, and develop Stormwater operational and capital resource needs.

The FY 2023 levy of \$0.0325 will generate \$94,393,055, supporting \$27,113,315 for staff and operational costs; \$65,879,740 for capital project implementation including, infrastructure reinvestment, regulatory requirements, dam safety, and contributory funding requirements; and \$1,400,000 transferred to the General Fund to partially offset central support services such as Human Resources, Purchasing, Budget and other administrative services supported by the General Fund, which benefit this fund.

Stormwater Services Operational Support

Stormwater Services operational support includes funding for staff salaries, Fringe Benefits, and Operating Expenses for all stormwater operations. In addition, Fund 40100 includes positions related to transportation operations maintenance provided by the Maintenance and Stormwater Management Division. Beginning in FY 2023, all funding for the transportation related salary expenses and equipment previously supported by Agency 87, Unclassified Administrative Expenses - Public Works Programs will be supported by capital projects in Fund 30010, General Construction and Contributions, as they do not qualify for expenses related to the stormwater service district. The transfer of funding to Fund 30010, General Construction and Contributions, will provide more transparency and the carryforward of balances at year-end.

Fund 40100 also supports the Urban Forestry Management Division (UFMD). The UFMD was established to mitigate tree loss and maximize tree planting during land development, enforce tree conservation requirements and monitor and suppress populations of Gypsy Moth, Emerald Ash Borer, and other forest pests. The division also implements programs needed to sustain the rich level of environmental, ecological, and socio-economic services provided by the County's tree canopy. The UFMD is aligned with the mission of Stormwater Services as it strives to "improve water quality and stormwater management through tree conservation." Tree canopy and forest soils function to mitigate significant levels of water pollution and stormwater runoff.

FY 2023 Stormwater Capital Project Support

Conveyance System Inspections, Development and Rehabilitation

The County owns and operates approximately 1,500 miles of underground stormwater pipes and improved channels with an estimated replacement value of over one billion dollars. The County



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began performing internal inspections of the pipes in FY 2006. The initial results showed that approximately 5 percent of the pipes exhibit conditions of failure, and an additional 5 percent required maintenance or repair. MS4 Permit regulations require inspection and maintenance of these 1,500 miles of existing conveyance systems, 69,000 stormwater structures, and a portion of the immediate downstream channel at the 7,000 regulated pipe outlets. Acceptable industry standards indicate that one dollar reinvested in infrastructure saves seven dollars in the asset's life and 70 dollars if asset failure occurs. Once the initial internal inspections are complete, the goal of this program is to inspect pipes on a 20-year cycle and rehabilitate pipes and improve outfall channels before total failure occurs. Total funding in the amount of \$9.0 million is included for Conveyance System Inspections, Development and Rehabilitation in FY 2023, including \$2.0 million for inspections and development and \$7.0 million for rehabilitation and outfall restoration.

Dam Safety and Facility Rehabilitation

There are approximately 7,900 stormwater management facilities in service that range in size from small rain gardens to large state regulated flood control dams. The County is responsible for inspecting approximately 5,500 privately-owned facilities and maintaining over 2,400 County owned facilities. This inventory increases annually and is projected to continually increase as new development and redevelopment sites occur in the County. This initiative also includes the removal of sediment that occurs in both wet and dry stormwater management facilities to ensure that



adequate capacity is maintained to treat the stormwater. The program results in approximately 50 projects annually that require design and construction management activities as well as contract management and maintenance responsibilities. This program maintains the structures and dams that control and treat the water flowing through County owned facilities. This program improves dam safety by supporting annual inspections of 20 state-regulated dams and the Huntington Levee and by developing Emergency Action Plans required by the state. The Emergency Action Plans are updated annually. In addition, these plans include annual emergency drills and exercises, and flood monitoring for each dam. Total funding in the amount of \$15.0 million is included in FY 2023, including \$5.0 million for maintenance and \$10.0 million for rehabilitation.

Stormwater/Wastewater Facility

This project will provide funding for a Stormwater/Wastewater Facility which will consolidate functions and operations and maximize efficiencies between the Stormwater and Wastewater Divisions. Currently, Stormwater operations are conducted from various locations throughout the County, with the majority of staff located at the West Drive facility. Facilities for field maintenance operations and for field/office-based staff are inadequate and outdated for the increased scope of the stormwater program, and inadequate to accommodate future operations. This project is currently in design with construction anticipated to begin in early 2022. The facility is financed by EDA bonds with the Stormwater Services Fund and Wastewater Fund supporting the debt service. Funding in the amount of \$4.2 million is included in FY 2023 to support the second year of debt service for the Stormwater/Wastewater Facility.

Emergency and Flood Response Projects

This program supports flood control projects for unanticipated flooding events that impact storm systems and structural flooding. The program provides annual funding for scoping, design, and construction activities related to flood mitigation projects. Funding in the amount of \$7.0 million is included for the Emergency and Flood Response Projects in FY 2023.

Enterprise Asset Management-Work Order System

This project will provide funding for the transition from an Enterprise Asset Management (EAM) system to a more functional Asset Management Program (AMP). This funding will support the acquisition of software, servers and consultant services to migrate asset management and related work order management into the new system. The current system tracks assets, inspections, daily work management and associated contractor costs. Features of the replacement system include geographic information system (GIS) integration and field mobility. The Department of Public Works and Environmental Services (DPWES) Information Technology staff have collaborated with the Stormwater Management and the Wastewater Management staff to promote interagency capabilities, optimize performance, and improve system lifecycle management for the new system. This new system will meet the future expectations for both divisions and optimize service delivery for DPWES. Funding in the amount of \$1.4 million is included in Capital Projects and an amount of \$800,000 is included in Operating Expenses for this project in FY 2023.

Stormwater-Related Contributory Program

Contributory funds are provided to the Northern Virginia Soil and Water Conservation District (NVSWCD) and the Occoquan Watershed Monitoring Program (OWMP). The NVSWCD is an independent subdivision of the Commonwealth of Virginia that provides leadership in the conservation and protection of Fairfax County's soil and water resources. It is governed by a fivemember Board of Directors - three members are elected every four years by the voters of Fairfax County and two members are appointed by the Virginia Soil and Water Conservation Board. Accordingly, the work of NVSWCD supports many of the environmental goals established by the Board of Supervisors. The goal of the NVSWCD is to continue to improve the quality of the environment and general welfare of the citizens of Fairfax County by providing them with a means of dealing with soil, water conservation and related natural resource problems. It provides County agencies with comprehensive environmental evaluations for proposed land use changes with particular attention to the properties of soils, erosion potential, drainage, and the impact on the surrounding environment. NVSWCD has consistently been able to create partnerships and leverage state, federal and private resources to benefit natural resources protection in Fairfax County. FY 2023 funding of \$0.6 million is included in Fund 40100 for the County contribution to the NVSWCD.

The OWMP and the Occoquan Watershed Monitoring Laboratory (OWML) were established to ensure that water quality is monitored and protected in the Occoquan Watershed. Given the many diverse uses of the land and water resources in the Occoquan Watershed (agriculture, urban residential development, commercial and industrial activity, water supply, and wastewater disposal), the OWMP plays a critical role as the unbiased interpreter of basin water quality information. FY 2023 funding of \$0.2 million is included in Fund 40100 for the County contribution to the OWMP.

Stormwater Allocation to Towns

On April 18, 2012, the State Legislature passed SB 227, which entitles the Towns of Herndon and Vienna to all revenues collected within their boundaries by Fairfax County's stormwater service district. An agreement was developed for a coordinated program whereby the Towns remain part of the County's service district and the County returns 25 percent of the revenue collected from properties within each town. This allows for the Towns to provide services independently such as

maintenance and operation of stormwater pipes, manholes, and catch basins. The remaining 75 percent remains with the County and the County takes on the responsibility for the Towns' Chesapeake Bay Total Maximum Daily Load (TMDL) requirements as well as other TMDL and MS4 requirements. This provides for an approach that is based on watersheds rather than on jurisdictional lines. Funding in the amount of \$1.0 million is included for the Stormwater Allocations to Towns project in FY 2023.

Regulatory Program

The County is required by federal law to operate under the conditions of a state issued MS4 Permit. Stormwater staff annually evaluates funding required to meet the increasing federal and state regulatory requirements pertaining to the MS4 Permit, and State and Federal mandates associated with controlling water pollution delivered to local streams and the Chesapeake Bay. The MS4 Permit allows the County to discharge stormwater from its stormwater systems into state and federal waters. The County currently owns and/or operates approximately 15,000 outfalls, and 7,000 of these outfalls are regulated outfalls governed by the permit. The current permit was issued to the County in April 2015 and expired in April 2020. The County is operating under an administrative continuance until a new permit is issued. The permit requires the County to document the stormwater management facility inventory, enhance public outreach and education efforts, increase water quality monitoring efforts, provide stormwater management and stormwater control training to all appropriate County employees. The permit requires the County to implement sufficient stormwater projects that will reduce the nutrients and sediment to comply with the Chesapeake Bay and local stream TMDL requirements. Funding in the amount of \$4.0 million is included for the Stormwater Regulatory Program in FY 2023.

Stream and Water Quality Improvements

This program funds water quality improvement projects necessary to mitigate the impacts to local streams and the Chesapeake Bay resulting from urban stormwater runoff. This includes water quality projects such as construction and retrofit of stormwater management ponds, implementation of green stormwater infrastructure facilities, stream restoration, and water quality projects identified in the completed Countywide Watershed Management Plans. These projects will aid in the reduction of



pollutants and improve water quality in county streams that are considered to be in fair to very poor condition and likely do not meet CWA water quality standards. In addition, Total Maximum Daily Load (TMDL) requirements for local streams and the Chesapeake Bay are the regulatory drivers by which pollutants entering impaired water bodies must be reduced. The Chesapeake Bay TMDL was established by the EPA and requires that MS4 communities as well as other dischargers implement measures to significantly reduce the nitrogen, phosphorous and sediment loads in waters that drain to the Chesapeake Bay by 2025. MS4 Permit holders must achieve 35 percent of the required reductions within the current five-year permit cycle and 60 percent of the required reductions in the

next five-year permit cycle. In addition, compliance with the Chesapeake Bay TMDL requires that the County undertake construction of new stormwater facilities and retrofit existing facilities and properties. The EPA continually updates the Chesapeake Bay compliance targets and credits. It is anticipated that the changes to the assigned targets as well as how projects are credited will likely impact future compliance requirements. In addition to being required to meet the Chesapeake Bay TMDL targets, the current MS4 Permit requires the County to develop and implement action plans to address local impairments. Most of the 1,900 watershed management plan projects contribute toward achieving the Chesapeake Bay and local stream TMDL requirements. Funding in the amount of \$23.5 million is included for Stream and Water Quality Improvements in FY 2023.

Organizational Chart



*Denotes functions that are included in both Fund 30010, General Construction and Contributions, and Fund 40100, Stormwater Services,

Budget and Staff Resources

Category	FY 2021 Actual	FY 2022 Adopted	FY 2022 Revised	FY 2023 Advertised
FUNDING				
Expenditures:				
Personnel Services	\$20,448,442	\$22,615,643	\$22,813,269	\$24,580,634
Operating Expenses	3,919,893	3,182,636	3,389,603	4,010,636
Capital Equipment	1,077,511	782,000	1,887,143	652,000
Capital Projects	50,984,399	61,600,414	242,012,718	65,879,740
Subtotal	\$76,430,245	\$88,180,693	\$270,102,733	\$95,123,010
Less:				
Recovered Costs	(\$1,832,157)	(\$2,129,955)	(\$2,129,955)	(\$2,129,955)
Total Expenditures	\$74,598,088	\$86,050,738	\$267,972,778	\$92,993,055
AUTHORIZED POSITIONS/FULL-TIM	E EQUIVALENT (FTE)			
Regular	202 / 202	200 / 200	200 / 200	208 / 208

FY 2023 Funding Adjustments The following funding adjustments from the <u>FY 2022 Adopted Budget Plan</u> are necessary to support the FY 2023 program:

Employee Compensation

\$1,214,199

An increase of \$ 1,214,199 in Personnel Services includes \$850,684 for a 4.01 percent market rate adjustment (MRA) for all employees and \$363,515 for performance-based and longevity increases for non-uniformed merit employees, both effective July 2022.

Other Post-Employment Benefits

(\$106,403)

A decrease of \$106,403 in Personnel Services reflects required adjustments associated with providing Other Post-Employment Benefits (OPEBs) to retirees, including the Retiree Health Benefits Subsidy. For more information on Other Post-Employment Benefits, please refer to Fund 73030, OPEB Trust, in Volume 2 of the FY 2023 Advertised Budget Plan.

New Positions \$885,195

An increase of \$885,195 including Personnel Services of \$857,195 and Operating Expenses of \$28,000 is necessary to fund requirements associated with 8/8.0 FTE new positions, including 1/1.0 Engineering Technician III. 1/1.0 FTE Planner III. 1/1.0 FTE Project Manager I. 1/1.0 FTE Senior Engineering Inspector, 1/1.0 FTE Senior Engineer III, and 3/3.0 FTE Senior Maintenance Workers. The Engineering Technician III position will support address the increased workload of permit required pond inspections and maintenance. The Planner III position will review and provide needed stormwater expertise, advanced technical analysis, support and recommendations on planning and development efforts during planning, pre-zoning and rezoning processes. The Project Manager I position will support the Tree Preservation and Planting Program and manage projects that support the tree planting goals of Virginia's Final Phase III Watershed Implementation Plan. The projects will be geared towards increasing tree canopy through street and landscape tree plantings, afforestation and reforestation, and assisting with outreach and education programs. The Senior Engineering Inspector position will be responsible for reviewing erosion and sediment control plans, reviewing project designs, understanding job specifications, inspecting County stormwater infrastructure, updating work orders and keeping a daily log of work performed on construction sites. The Senior Engineer III position will initiate flood mitigation projects, coordinate with property owners to address their flooding concerns, and execute flood mitigation project design and implementation services. The three Senior Maintenance Worker positions will form an additional crew that will be deployed into the field to perform maintenance on the storm drainage system throughout the County.

Asset Management Program

\$800.000

An increase of \$800,000 in Operating Expenses will support a new Asset Management Program (AMP). Funding will support the acquisition of software, servers, and consultant services to migrate asset management and related work order management into the new system. This new system will meet the future expectations for both Stormwater and Wastewater divisions and optimize service delivery for the Department of Public Works and Environmental Services.

Capital Equipment (\$130,000)

Funding of \$652,000 in Capital Equipment, a decrease of \$130,000 from the FY 2022 Adopted Budget Plan, is included primarily associated with replacement equipment that has outlived its useful life and is critical to stormwater services activities. Replacement equipment includes: \$390,000 to replace two dump trucks that support all maintenance and emergency response programs and \$40,000 to replace three equipment trailers that support all maintenance and emergency response programs in transporting construction materials, light duty and snow removal equipment. New equipment includes \$222,000 for the purchase of three new pickup trucks and one new utility truck to support the new positions in FY 2023.

Capital Projects \$4,279,326

Funding of \$65,879,740 in Capital Projects, an increase of \$4,279,326 from the FY 2022 Adopted Budget Plan, has been included in FY 2023 for priority stormwater capital projects.

Changes to FY 2022 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2022 Revised Budget Plan since passage of the FY 2022 Adopted Budget Plan. Included are all adjustments made as part of the FY 2021 Carryover Review, FY 2022 Mid-Year Review, and all other approved changes through December 31, 2021:

Carryover Adjustments

\$182,312,873

As part of the FY 2021 Carryover Review, the Board of Supervisors approved funding of \$182,312,873 based on the carryover of unexpended project balances in the amount of \$179,413,809 and a net adjustment of \$2,899,064. This adjustment includes the carryover of \$1,312,110 in operating and capital equipment encumbrances, an increase of \$197,626 to Personnel Services to support a one-time compensation adjustment of \$1,000 for merit employees and \$500 for non-merit employees to be paid no later than November 2021, and an increase to capital projects of \$1,389,328. The adjustment to capital projects is based on the appropriation of the remaining operational savings of \$783,662, higher than anticipated revenues of \$304,634, revenues of \$203,600 collected through the land development process that will support tree preservation and planting projects in FY 2022, revenues of \$44,841 associated with dam and facility maintenance projects, miscellaneous revenues in the amount of \$45,652, and the appropriation of \$6,939 from the ending balance that was due to an FY 2021 audit adjustment.

Mid-Year Adjustments

(\$1,555)

As part of the FY 2022 Mid-Year Review, the Board of Supervisors approved a decrease of \$1,555 due to an FY 2021 audit adjustment.

Position Detail

The FY 2023 Advertised Budget Plan includes the following positions:

	WATER SERVICES - 208 Positions		
MSMD /	Administration (10 positions)		
1	Director, Maintenance and SW	1	Safety Analyst I
1	HR Generalist II	1	Administrative Assistant IV
1	HR Generalist I	4	Administrative Assistants III
1	Safety Analyst II		
T - Dire	ector's Office/Stormwater (1 position)		
1	Network/Telecom. Analyst I		
Finance	- Wastewater and Stormwater (4 positions)		
1	Financial Specialist IV	1	Financial Specialist I
1	Financial Specialist II	1	Administrative Assistant III
Contrac	ting Services/Material Support (5 positions)		
1	Material Mgmt. Specialist III	1	Financial Specialist II
2	Contract Analysts I	1	Inventory Manager
Dam Sa	fety and Maintenance Projects/Projects and L	ID/Inspecti	
1	Public Works-Env. Serv. Manager	5	Engineering Technicians III [+1]
-1	Engineer IV	2	Engineering Technicians II
1	Senior Engineer III	1	Project Manager II
3	Engineers III	2	Project Managers I
1	Ecologist III	1	Assistant Project Manager
1	Ecologist II		
Field O	perations (74 positions)		
2	Env. Services Supervisors	3	Masons
1	Public Works-Env. Serv. Manager	1	Vehicle Maintenance Coordinator
2	Public Works-Env. Bus. Operations	5	Engineering Technicians III
2	Public Works-Env. Serv. Specialists	2	Engineering Technicians II
8	Senior Maintenance Supervisors	1	Carpenter II
5	Maintenance Supervisors	2	Equipment Repairers

	perations		10.00
2	Maintenance Crew Chiefs	1	Welder II
15	Senior Maintenance Workers [+3]	1	Welder I
10	Heavy Equipment Operators	1	Trades Supervisor
10	Motor Equipment Operators		
Stormw	rater Infrastructure Branch (16 positions)		
1	Public Works-Env. Serv. Manager	1	Senior Engineering Inspector [+1]
3	Engineers IV	2	Engineering Technicians II
2	Senior Engineers III [+1]	2	Engineering Technicians I
4	Engineers III	1	Project Manager I
Transpo	ortation Infrastructure Branch (7 positions)		
1	Engineer V	3	Project Managers I
1	Engineer IV	1	Engineering Technician II
1	Project Manager II		
Stormw	rater Planning Division (56 positions)		
1	Director, Stormwater Planning	1	Emergency Mgmt. Specialist III
1	Engineer V	1	Planner IV
4	Engineers IV	1	Planner III [+1]
1	Senior Engineer III	2	Landscape Architects III
8	Engineers III	1	Engineering Technician III
5	Project Managers II	1	Management Analyst II
2	Project Managers I	2	Code Specialists II
4	Ecologists IV	1	Financial Specialist II
5	Ecologists III	1	Financial Specialist I
3	Ecologists II	1	Contract Specialist II
2	Ecologists I	1	Assistant Contract Specialist
3	Project Coordinators	3	Administrative Assistants III
1	Public Works-Env. Serv. Manager		
Urban F	orestry (16 positions)		
1	Director, Urban Forestry Division	3	Urban Foresters I
1	Urban Forester IV	1	Project Manager I [+1]
4	Urban Foresters III	1	Administrative Assistant II
5	Urban Foresters II		

Performance Measurement Results

The objective to receive no MS4 Permit violations related to inspection and maintenance of public and private stormwater management facilities was met in FY 2019, FY 2020, and FY 2021. It is expected that this objective will also be met in FY 2022 and FY 2023. The objective to update 100 percent of the Stormwater emergency action plans was met in prior years. It is expected that this trend will continue in both FY 2022 and FY 2023. Lastly, the objective to keep 100 percent of the commuter facilities operational for 365 days was met in prior years. It is expected that this goal will be met in FY 2022 and FY 2023.

Indicator	FY 2019 Actual	FY 2020 Actual	FY 2021 Estimate	FY 2021 Actual	FY 2022 Estimate	FY 2023 Estimate
MS4 permit violations received	0	0	0	0	0	0
Percent of Emergency Action Plans current	100%	100%	100%	100%	100%	100%
Percent of commuter facilities available 365 days per year	100%	100%	100%	100%	100%	100%

A complete list of performance measures can be viewed at https://www.fairfaxcounty.gov/budget/fy-2023-advertised-performance-measures-pm

FUND STATEMENT

Category	FY 2021 Actual	FY 2022 Adopted Budget Plan	FY 2022 Revised Budget Plan	FY 2023 Advertised Budget Plan
Beginning Balance	\$78,402,156	\$6,939	\$90,244,247	\$0
Revenue:				
Stormwater Service District Levy	\$85,394,610	\$87,175,738	\$87,175,738	\$94,393,055
Sale of Bonds ¹	0	0	88,000,000	0
Stormwater Local Assistance Fund (SLAF) Grant ²	1,876,476	0	3,596,793	0
Tree Preservation/Planting Fund3	203,600	0	0	0
Miscellaneous	90,493	0	81,000	0
Total Revenue	\$87,565,179	\$87,175,738	\$178,853,531	\$94,393,055
Total Available	\$165,967,335	\$87,182,677	\$269,097,778	\$94,393,055
Expenditures:				
Personnel Services ⁴	\$20,448,442	\$22,615,643	\$22,813,269	\$24,580,634
Operating Expenses	3,919,893	3,182,636	3,389,603	4,010,636
Recovered Costs	(1,832,157)	(2,129,955)	(2,129,955)	(2,129,955)
Capital Equipment	1,077,511	782,000	1,887,143	652,000
Capital Projects ⁴	50,984,399	61,600,414	242,012,718	65,879,740
Total Expenditures	\$74,598,088	\$86,050,738	\$267,972,778	\$92,993,055
Transfers Out:				
General Fund (10001) ⁵	\$1,125,000	\$1,125,000	\$1,125,000	\$1,400,000
Total Transfers Out	\$1,125,000	\$1,125,000	\$1,125,000	\$1,400,000
Total Disbursements	\$75,723,088	\$87,175,738	\$269,097,778	\$94,393,055
Ending Balance ^{6,7}	\$90,244,247	\$6,939	\$0	\$0
Tax Rate Per \$100 of Assessed Value	\$0.0325	\$0.0325	\$0.0325	\$0.0325

¹ In FY 2022, Economic Development Authority (EDA) Bonds were issued to support the construction of a Stormwater/Wastewater facility to consolidate functions and operations and maximize efficiencies between the Stormwater and Wastewater Divisions.

² Represents Virginia Department of Environmental Quality (VDEQ) Stormwater Local Assistance Fund (SLAF) grants which support stream and water quality improvement projects. An amount of \$1,876,476 was received in FY 2021 and an amount of \$3,596,793 is anticipated in FY 2022 and beyond.

³ Reflects revenues collected through the land development process that will support tree preservation and planting projects in FY 2022.

⁴ In order to account for revenues and expenditures in the proper fiscal year, audit adjustments were reflected as an increase of \$1,555.35 to FY 2021 Personnel Services expenditures to record expenditure accruals and an increase of \$389,278.17 to FY 2021 Capital Projects expenditures to record expenditure accruals. This impacted the amount carried forward resulting in a decrease of \$389,278.17 to the FY 2022 Revised Budget Plan. The projects affected by this adjustment were 2G25-006-000. Stormwater Regulatory Program, SD-000031, Stream & Water Quality Improvements, and SD-000033, Dam Safety and Facility Rehabilitation. The Annual Comprehensive Financial Report (ACFR) reflects all audit adjustments in FY 2021. Details of the audit adjustments were found in Attachment VI of the FY 2022 Mid-Year Review.

⁵ Funding in the amount of \$1,400,000 is transferred to the General Fund to partially offset central support services supported by the General Fund, which benefit Fund 40100. These indirect costs include support services such as Human Resources, Purchasing, Budget and other administrative services.

⁶ Capital projects are budgeted based on the total project costs. Most projects span multiple years, from design to construction completion. Therefore, funding for capital projects is carried forward each fiscal year, and ending balances fluctuate, reflecting the carryover of these funds.

⁷ The <u>FY 2022 Adopted Budget Plan</u> ending balance of \$6,939 was due to an adjustment made to FY 2020, and it was adjusted as part of the *FY 2021 Carryover Review*.

Fund 40100: Stormwater Services

SUMMARY OF CAPITAL PROJECTS

Project	Total Project Estimate	FY 2021 Actual Expenditures	FY 2022 Revised Budget	FY 2023 Advertised Budget Plan
Conveyance System Inspection/Development (2G25-028-000)	\$13,725,000	\$1,547,185.84	\$4,734,379.98	\$2,000,000
Conveyance System Rehabilitation (SD-000034)	65,034,135	6,858,021.91	10,922,648.48	7,000,000
Dam & Facility Maintenance (2G25-031-000)	30,194,841	5,511,833.19	7,422,312.42	5,000,000
Dam Safety and Facility Rehabilitation (SD-000033)	62,576,104	5,838,539.60	12,227,774.80	10,000,000
Debt Service for SW/WW Facility (2G25-117-000)	9,179,000	0.00	5,000,000.00	4,179,000
Emergency and Flood Response Projects (SD-000032)	36,686,091	1,432,074.25	14,457,916.30	7,000,000
Enterprise Asset Management-Work Order System (SD-000044)	2,400,000	0.00	1,000,000.00	1,400,000
Flood Prevention-Huntington Area-2012 (SD-000037)	41,350,000	204,250.20	2,260,024.24	0
Lake Accotink Dredging (SD-000041)	5,000,000	576,187.62	4,423,812.38	0
Laurel Hill Adaptive Reuse Infrastructure (SD-000038)	1,925,000	8,306.59	0.00	0
NVSWCD Contributory (2G25-007-000)	6,530,042	554,811.00	554,811.00	609,346
Occoquan Monitoring Contributory (2G25-008-000)	1,750,641	172,138.00	177,799.00	183,437
Scotts Run Stream Restoration (SD-000043)	151,358	151,357.99	0.00	0
Stormwater Allocation to Towns (2G25-027-000)	7,644,829	816,434.14	1,294,119.92	1,000,000
Stormwater Civil Penalties Fees (2G25-119-000)	185,750	0.00	185,750.00	0
Stormwater Facility (SD-000039)	96,515,000	1,985,385.95	88,412,475.41	0
Stormwater Proffers (2G25-032-000)	56,500	0.00	56,500.01	0
Stormwater Regulatory Program (2G25-006-000)	64,014,584	2,588,925.98	7,420,778.36	4,000,000
Stream & Water Quality Improvements (SD-000031)	255,588,016	22,533,970.99	80,322,038.93	23,507,957
Towns Grant Contribution (2G25-029-000)	4,805,976	176,548.01	906,583.17	0
Tree Preservation and Plantings (2G25-030-000)	308,916	28,427.87	232,993.36	Ö
Total	\$705,621,783	\$50,984,399.13	\$242,012,717.76	\$65,879,740



County of Fairfax, Virginia

To arrate of and enrich the quality of the for the people, neighborhoods and diverse communities of Fairfax County

Ms. Wendy Howard Cooper, Director Director, Dam Safety and Floodplain Management Department of Conservation and Recreation East Main Street, 24th Floor Richmond, Virginia 23219

Reference: Community Flood Preparedness Fund, CY2022 Round 3 Grant Application, Regulated Floodplain Map Updates Study Application (CFPF-22-03-18)

Dear Ms. Howard Cooper:

This letter is in response to your September 30, 2022 (attached), letter requesting Fairfax County's (County's) confirmation of further consideration of the Regulated Floodplain Map Updates Study application (CFPF-22-03-18) during the supplemental review period for the Community Flood Preparedness Fund (CFPF). The County is still interested in having this project application considered to receive funding through the CFPF.

If the grant is awarded, the County will provide the necessary match for the project (\$600,000.00) as required by your department, subject to Fairfax County Board of Supervisors approval. It is understood that the County's total match amount for all four applications being considered during the supplemental review may be as much as \$9,184,400.00.

The County will provide the requested information for the Regulated Floodplain Map Updates Study application (CFPF-22-03-18) to your department no later than 5:00 pm on November 30, 2022, as documented in your letter.

If you have any questions or need additional assistance, please contact Craig Carinci, Director Stormwater Planning Division at 703-324-5500.

Sincerely,

Bryan J. Hill County Executive

Attachment: Community Flood Preparedness Fund (CFPF): Application CFPF-22-03-18

cc: Rachel Flynn, Deputy County Executive

Christopher Herrington, Director, Department of Public Works and Environmental Services

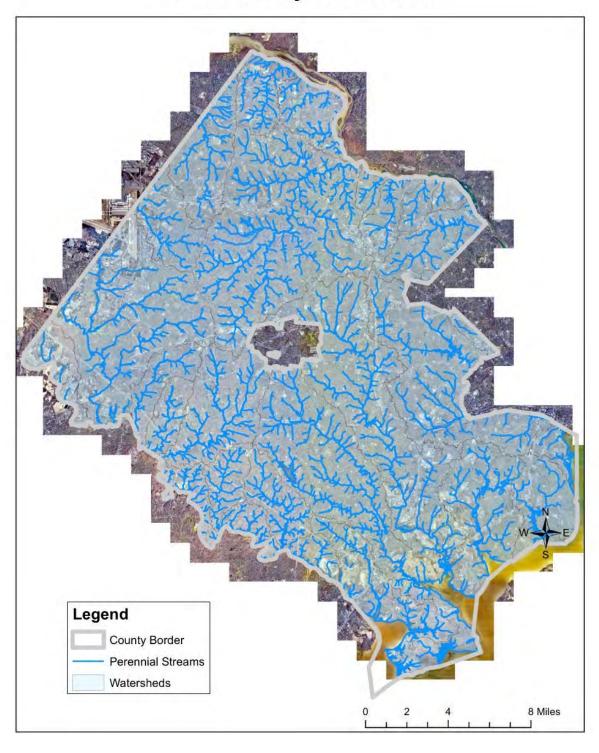
Eleanor Ku Codding, Deputy Director, DPWES, Stormwater and Wastewater Divisions Craig Carinei, Director, DPWES, Stormwater Planning Division

Office of the County Executive 12000 Government Center Parkway, Suite 552 Fairfax, VA 22035-0066 705-324-2531, TTY 711, Fax 703-324-3956 www.fairfaxcounty.gov

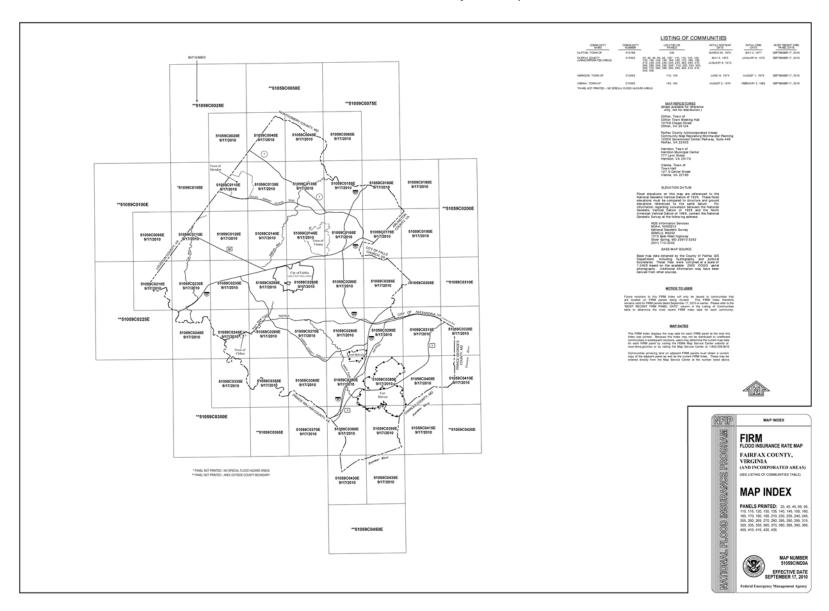
C. Supporting Documentation

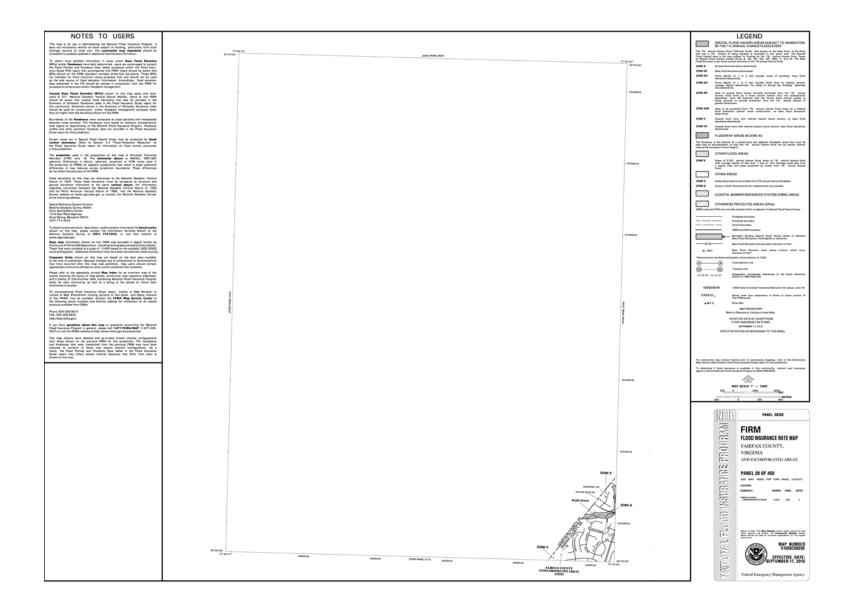
Scope of Work Narrative				
Supporting Documentation	Link or Attachment			
Detailed map of the project areas	Attachment A			
FIRMettes of the project areas	Attachment B			
Historic flood damage data and/or images	Attachment C			
A link to or copy of the current floodplain ordinance	https://online.encodeplus.com/regs/fairfaxcounty-va/doc-viewer.aspx#secid-251			
A link to or a copy of the current hazard mitigation plan	https://www.fairfaxcounty.gov/emergencyman agement/sites/emergencymanagement/files/as sets/documents/pdf/hazard%20mitigation%20 plan%2010.22.19.pdf			
A link to or a copy of the current comprehensive plan	https://www.fairfaxcounty.gov/planning- development/fairfax-county-comprehensive- plan			
Social vulnerability index score for the project areas from ADAPT VA's Virginia Vulnerability Viewer	Attachment D			
Completed Scoring Criteria Sheet in Appendix C	See Appendices			
Approved Resilience Plan	Attachment E			
Budget Na	arrative			
Supporting Documentation	Attachment			
Authorization to request funding from the Fund from governing body or chief executive of the local government	Attachment 4			

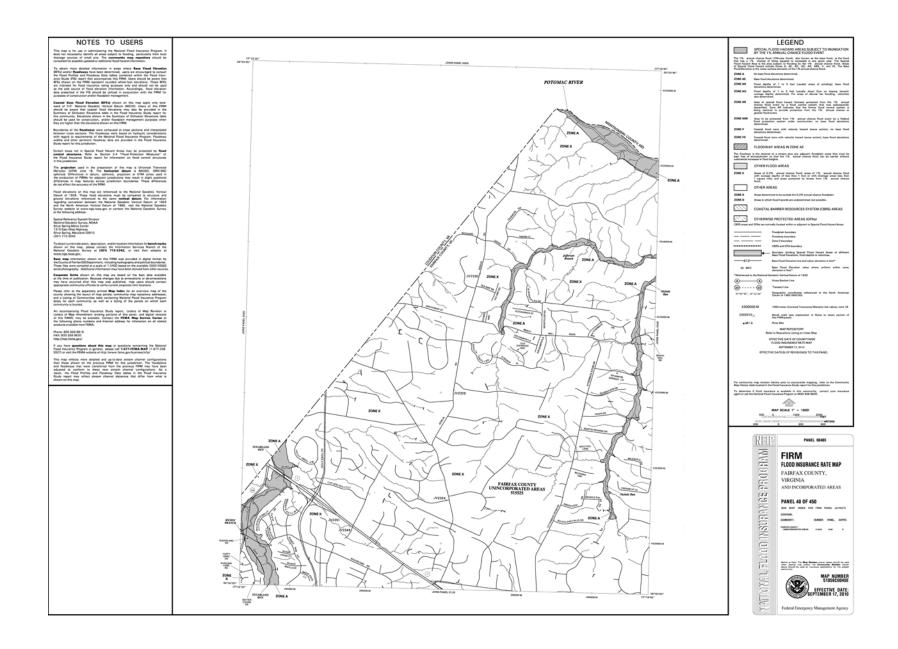
Fairfax County Watersheds

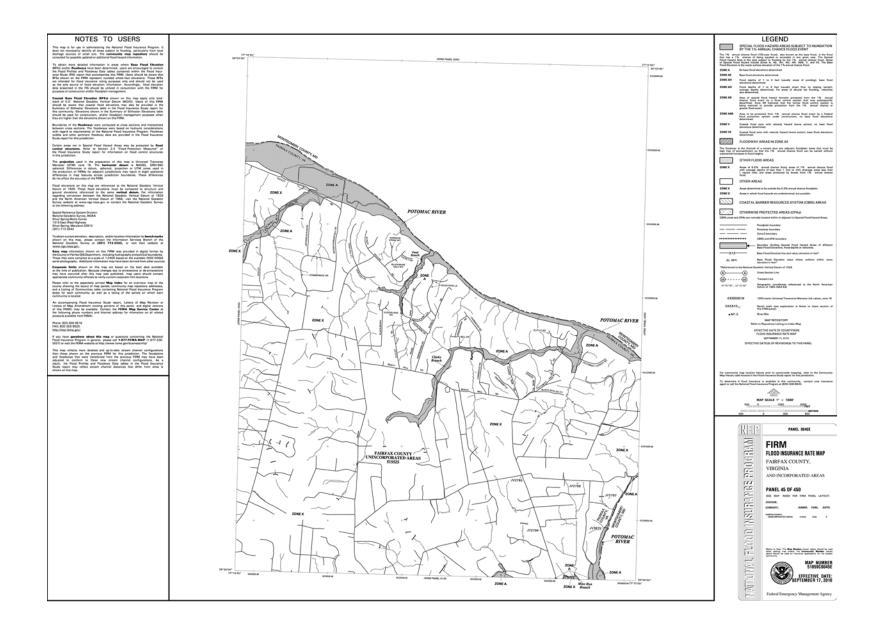


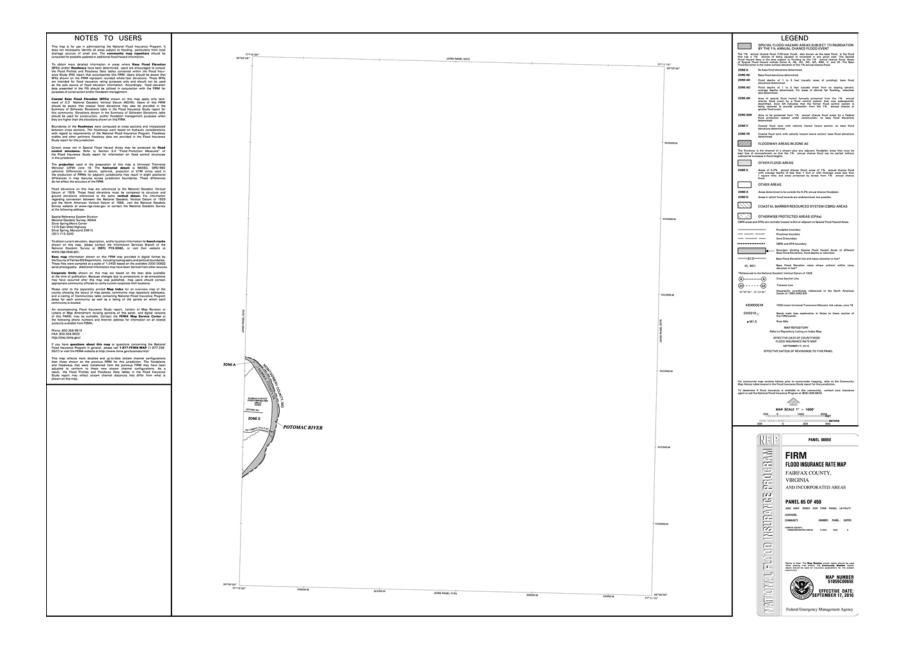
Attachment B. FIRMs of the study area

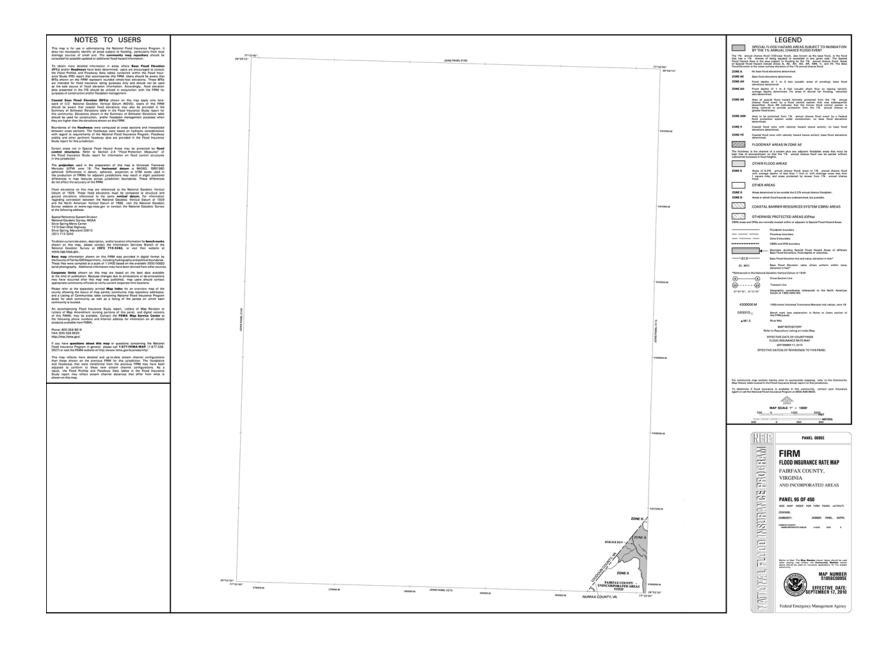


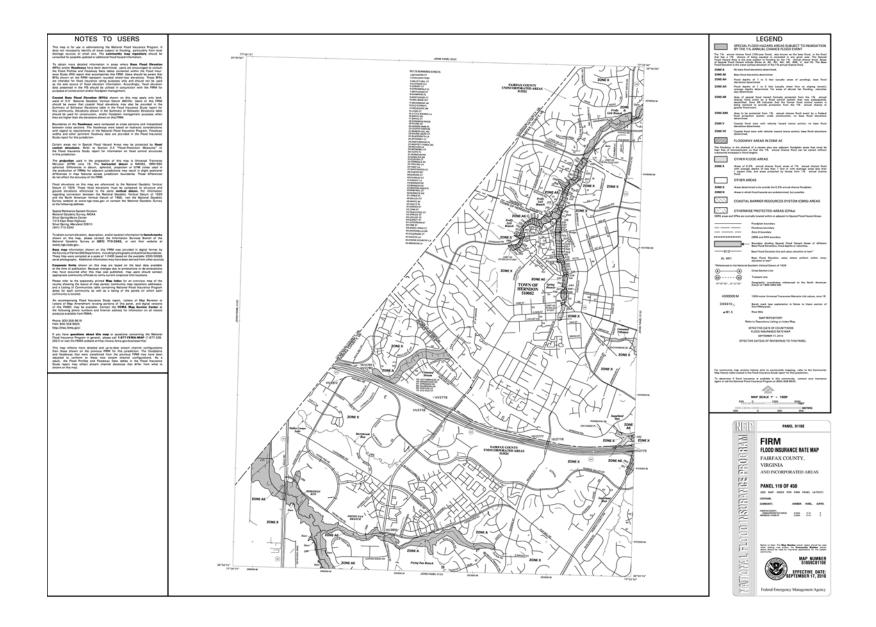


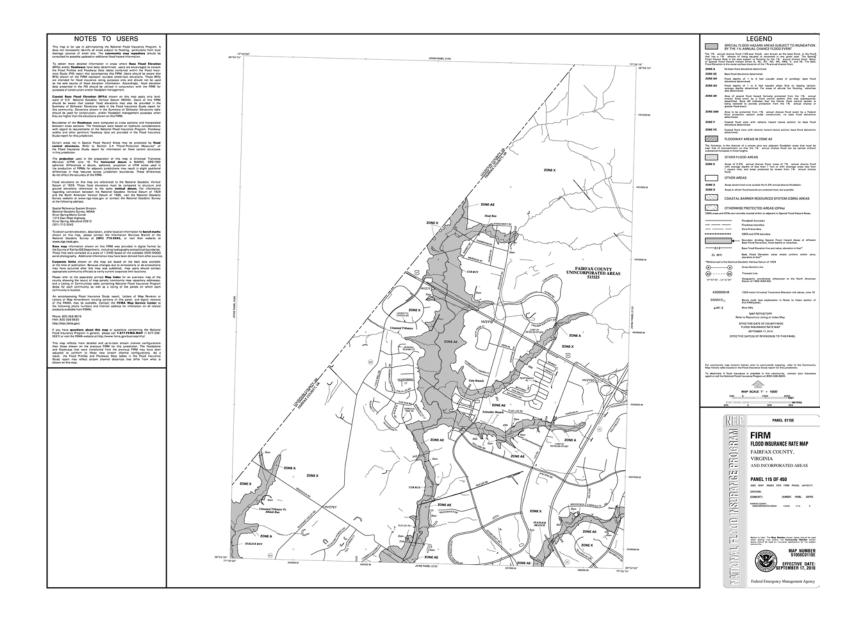


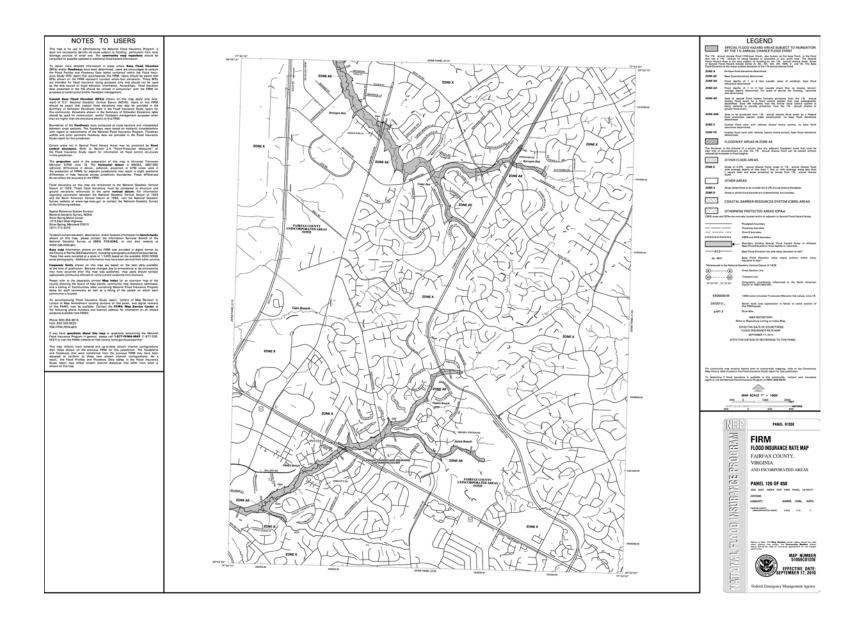


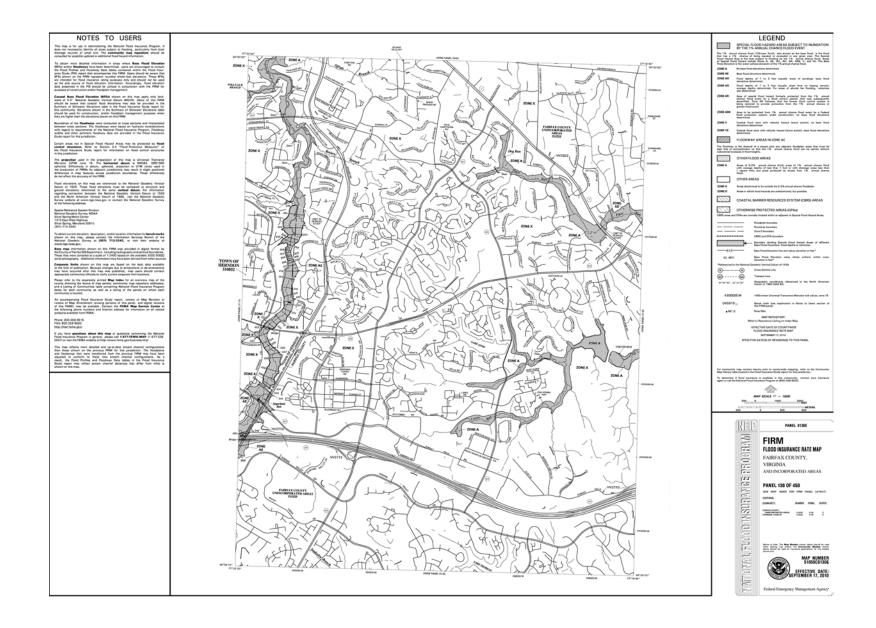


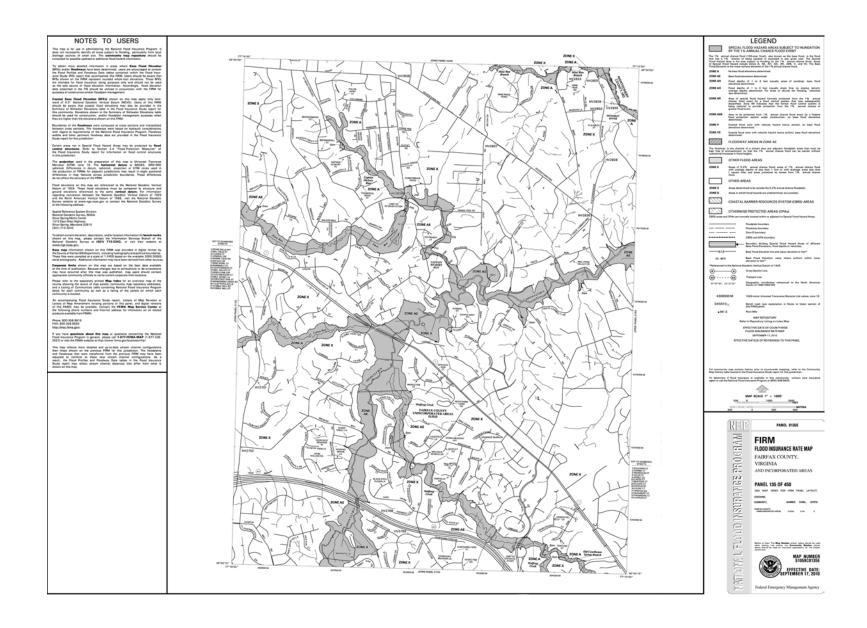


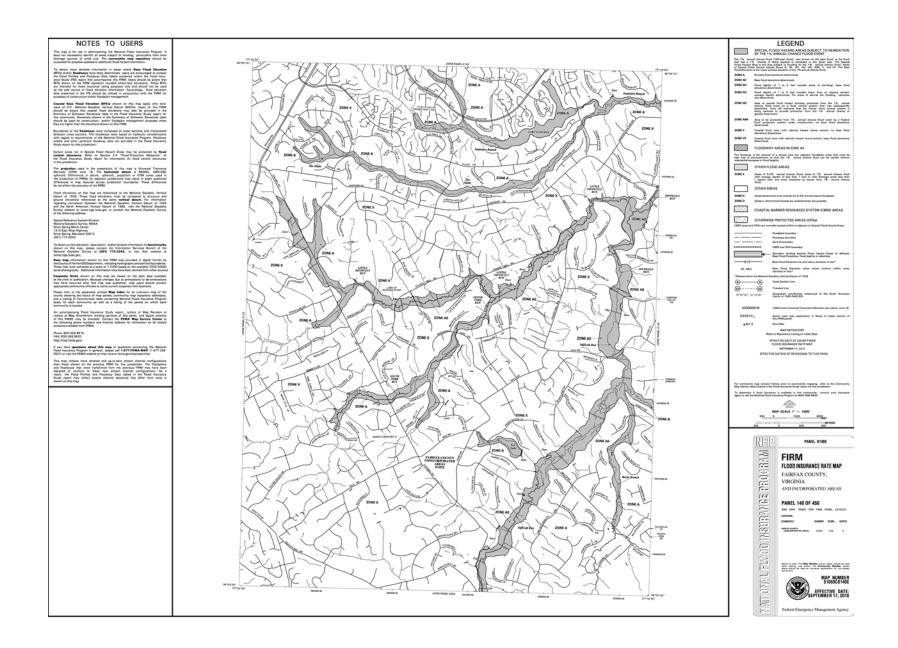


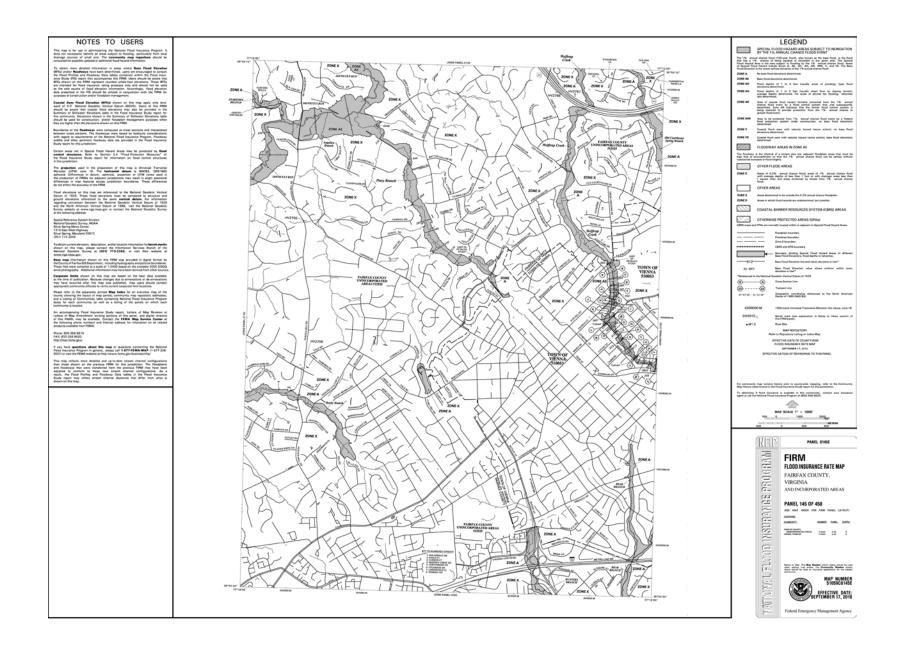


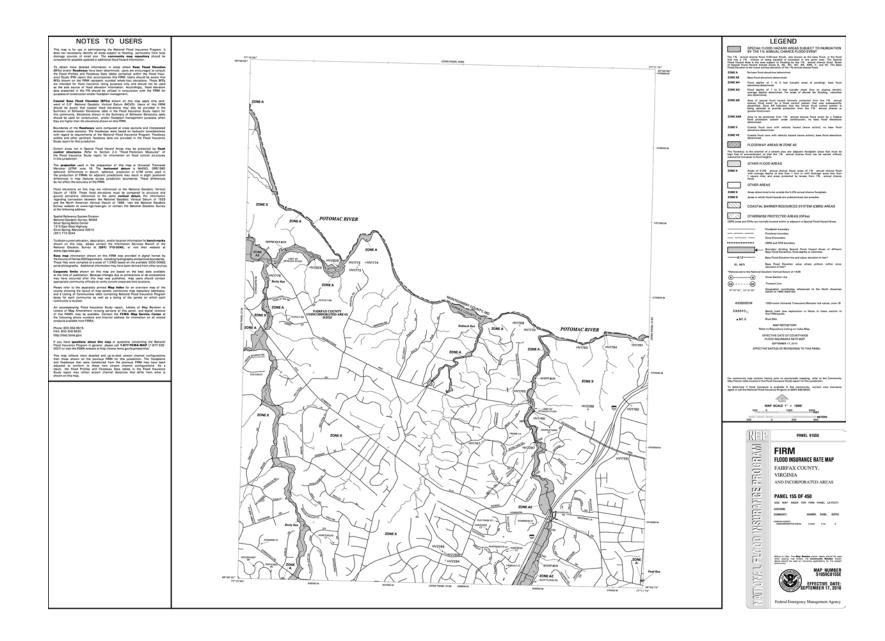


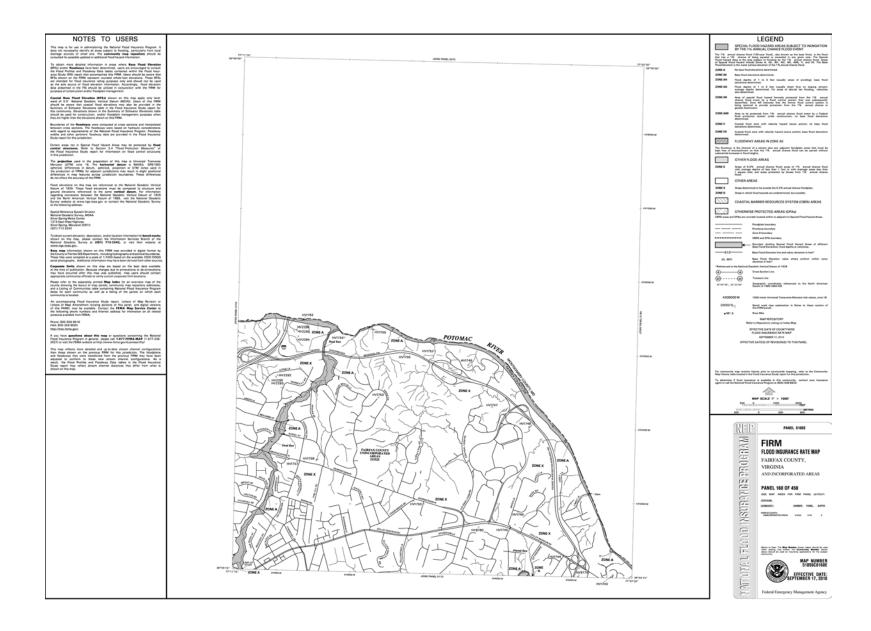


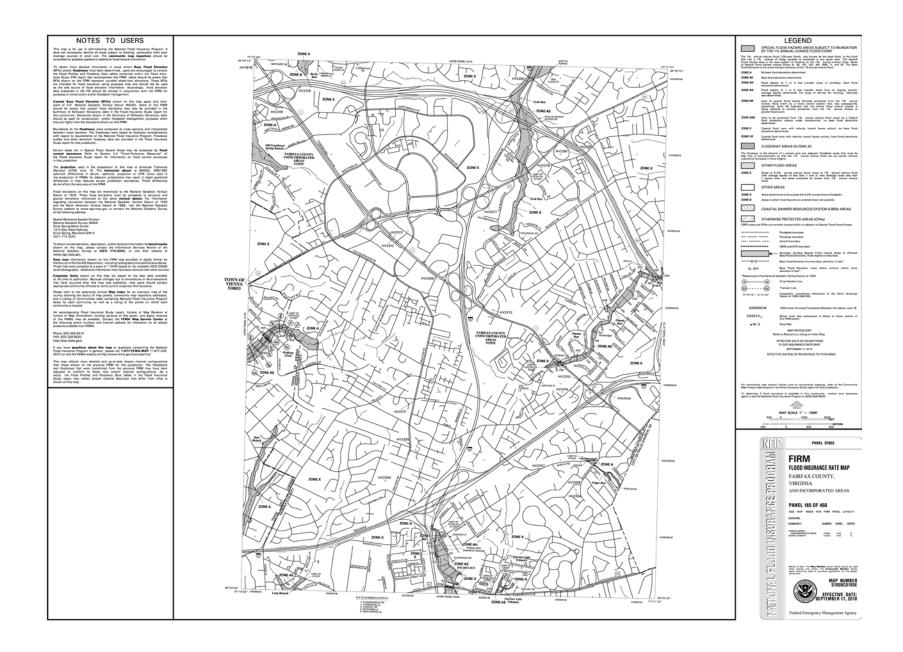


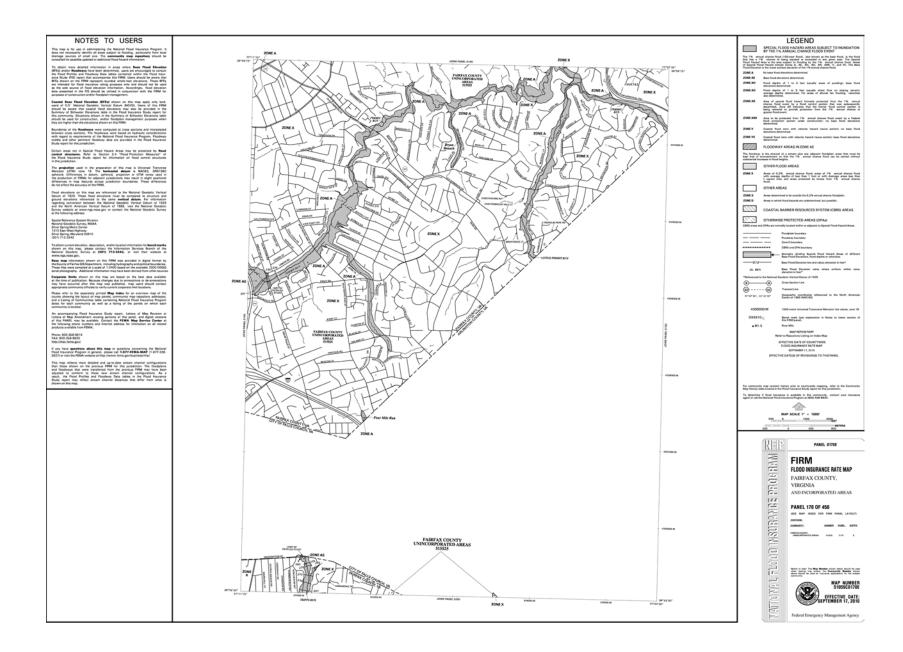


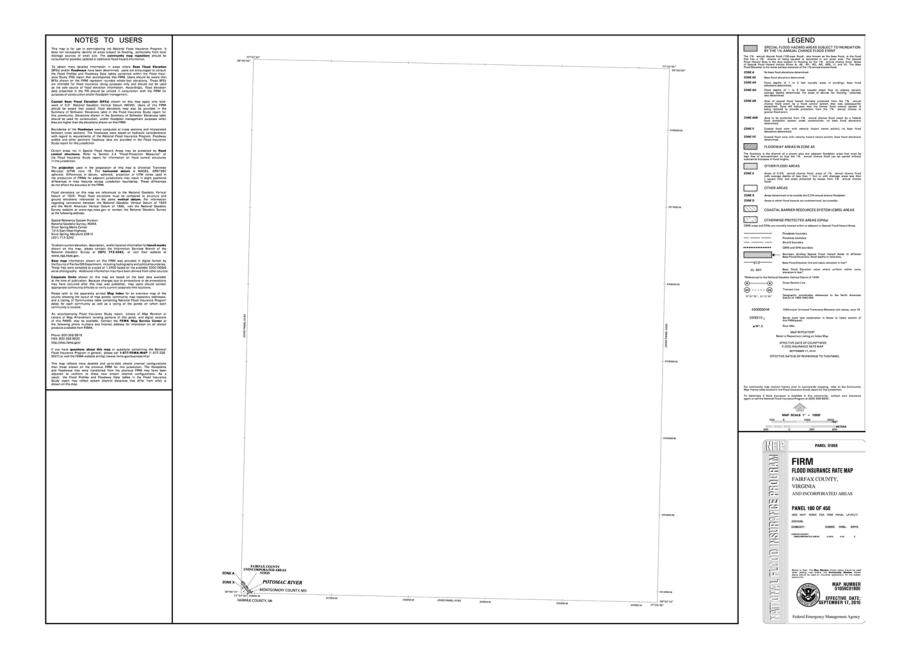


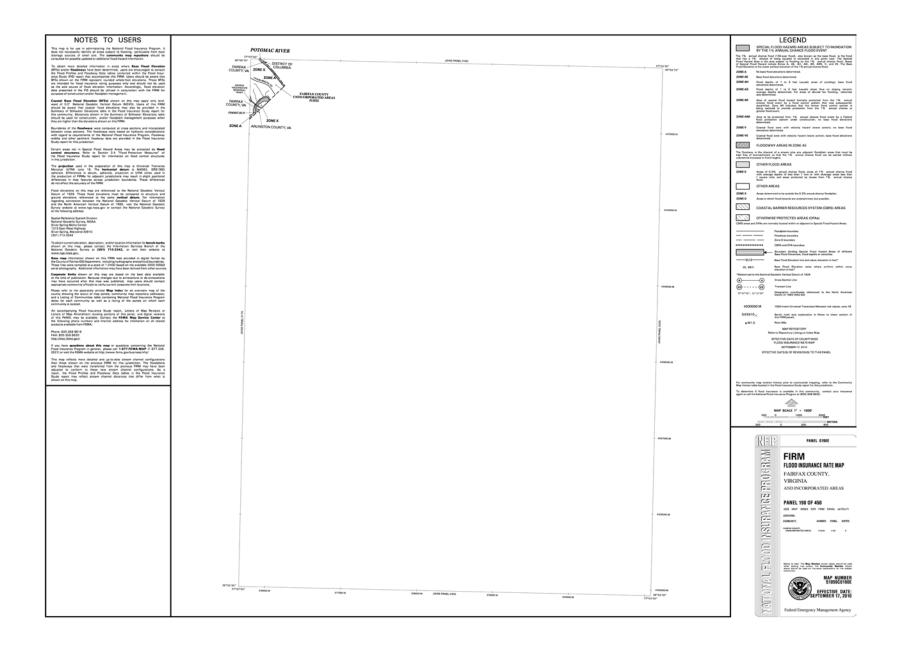


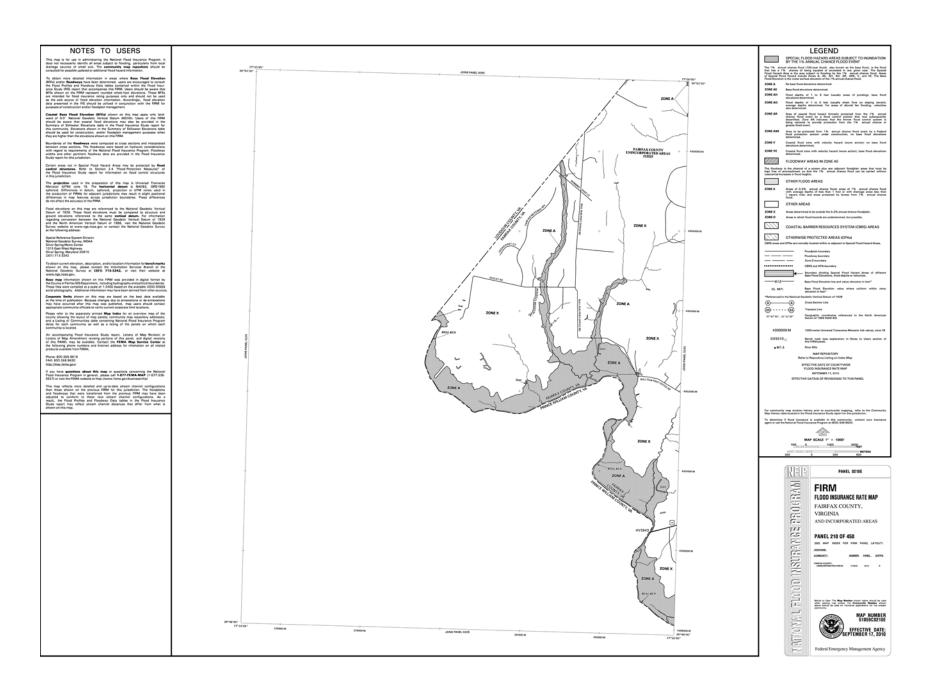


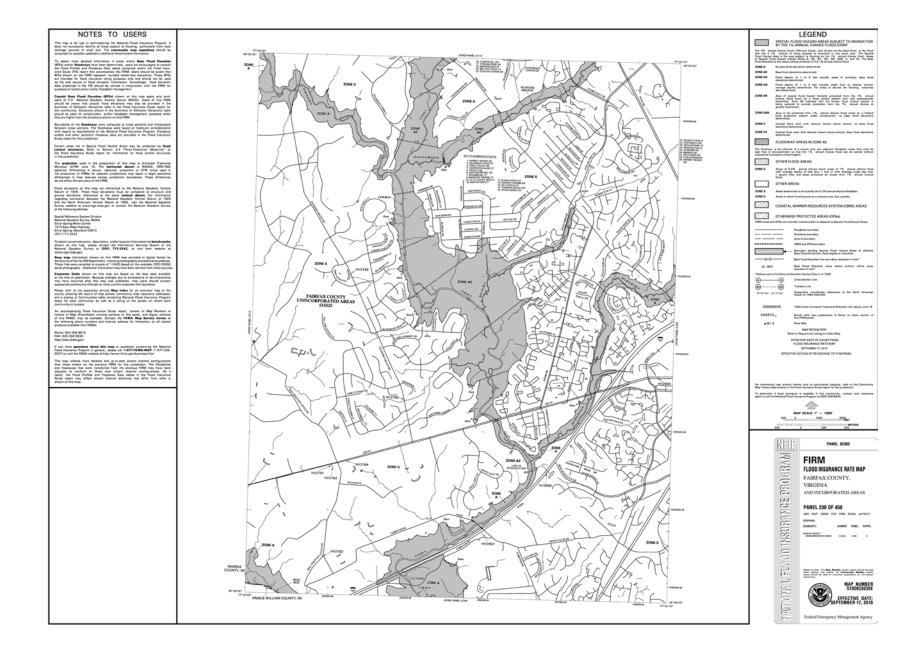


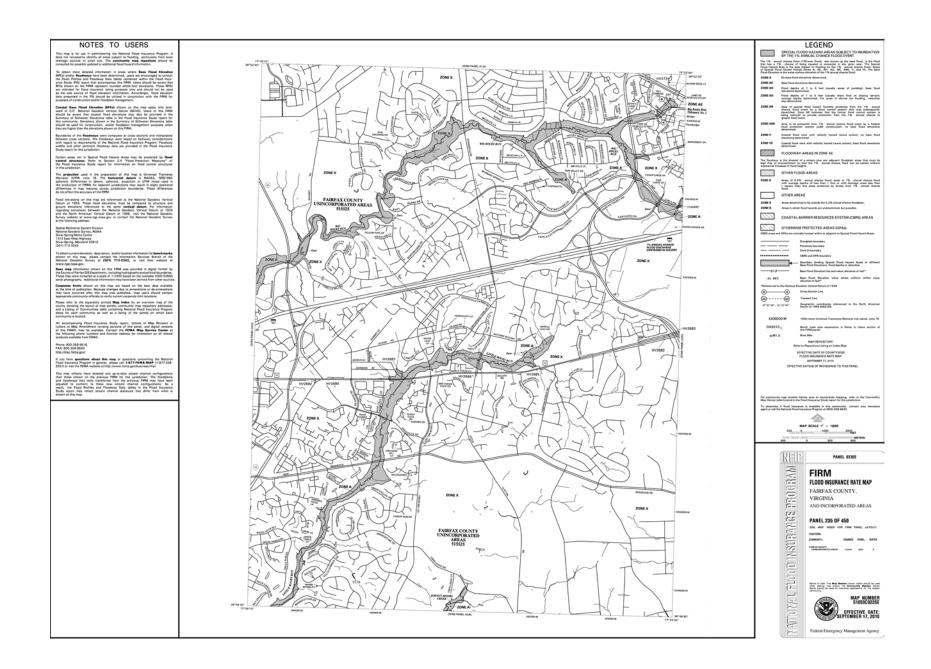


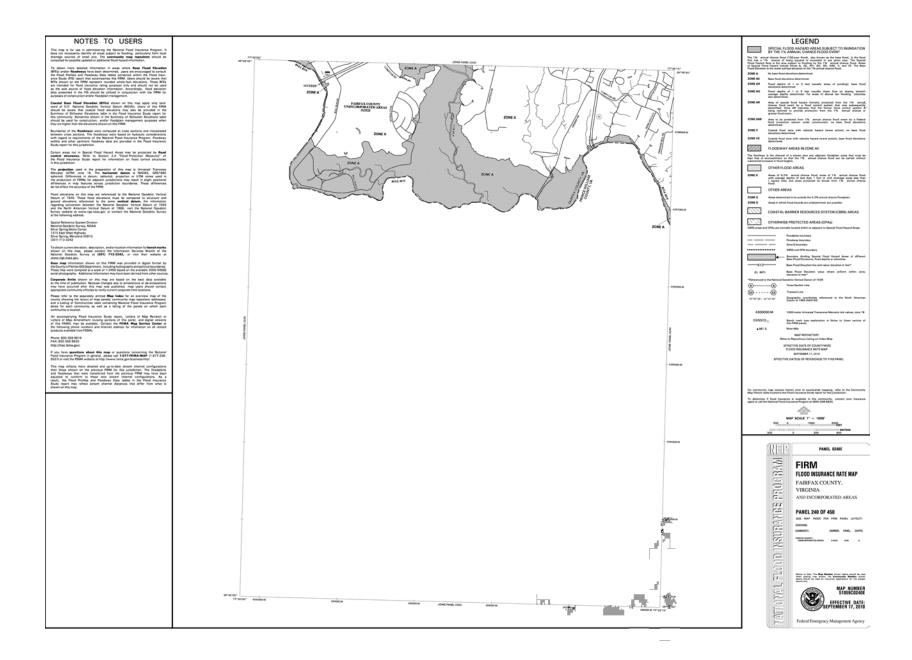


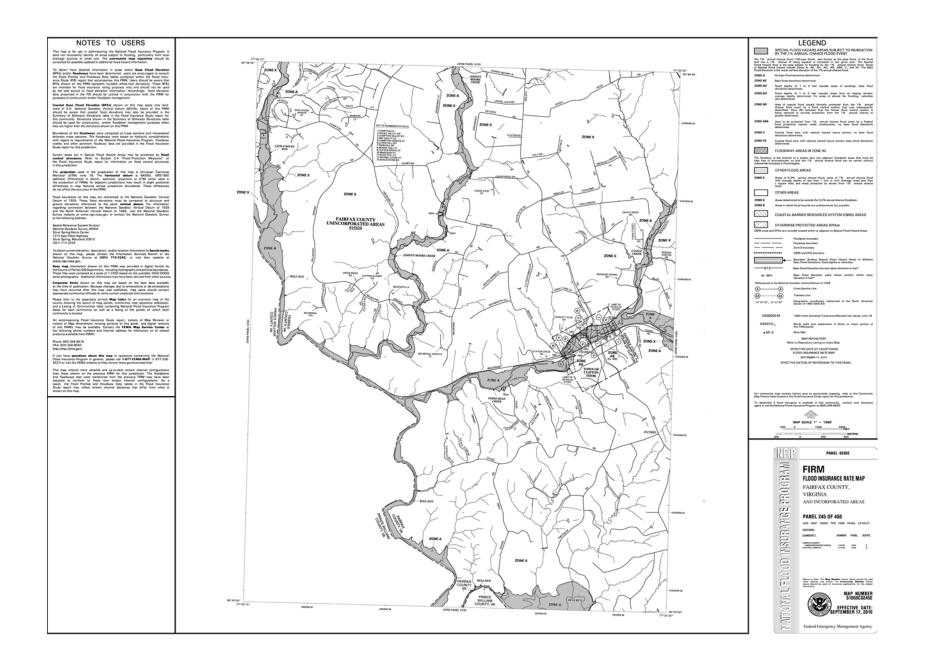


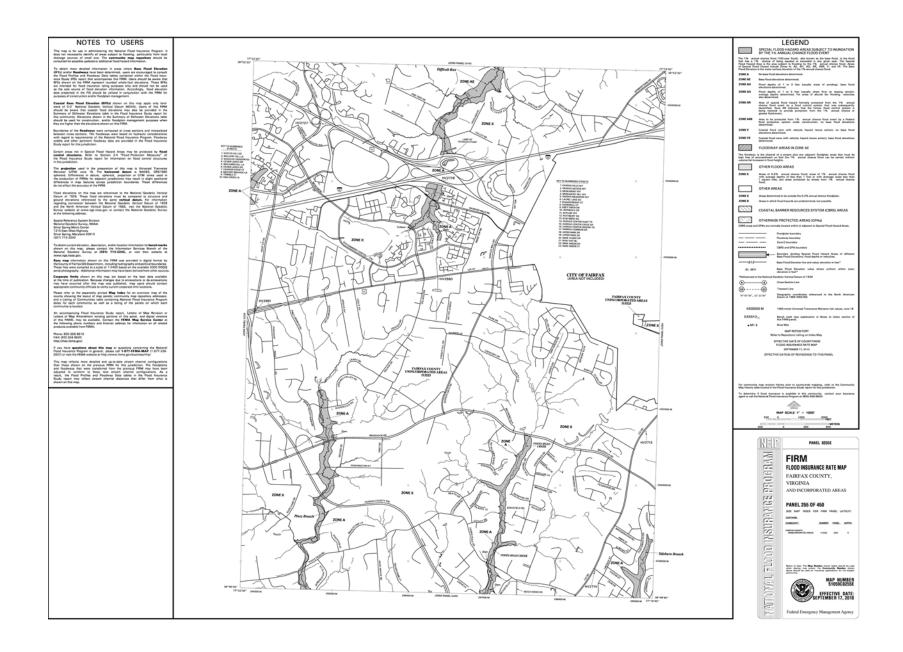


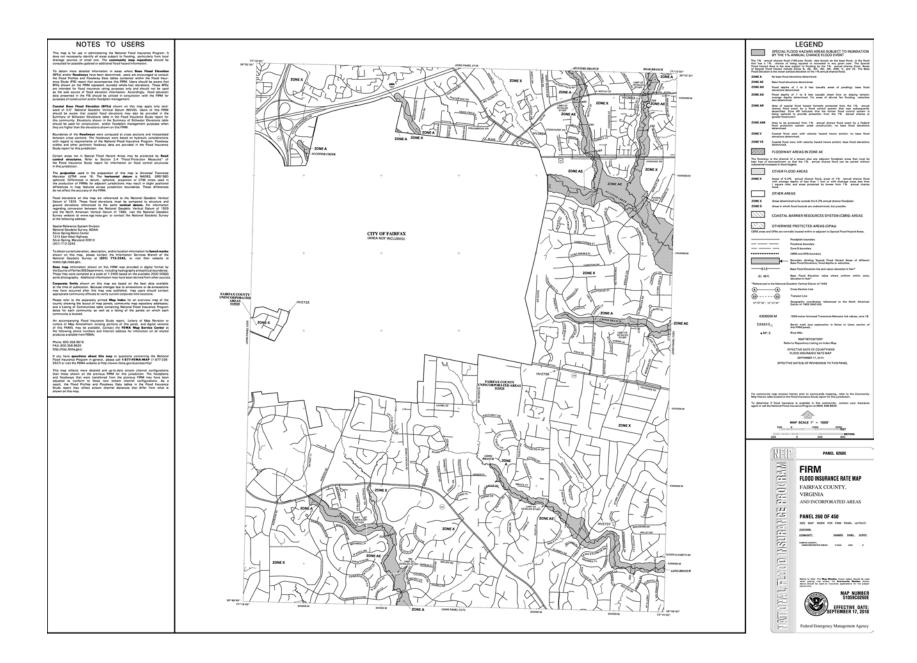


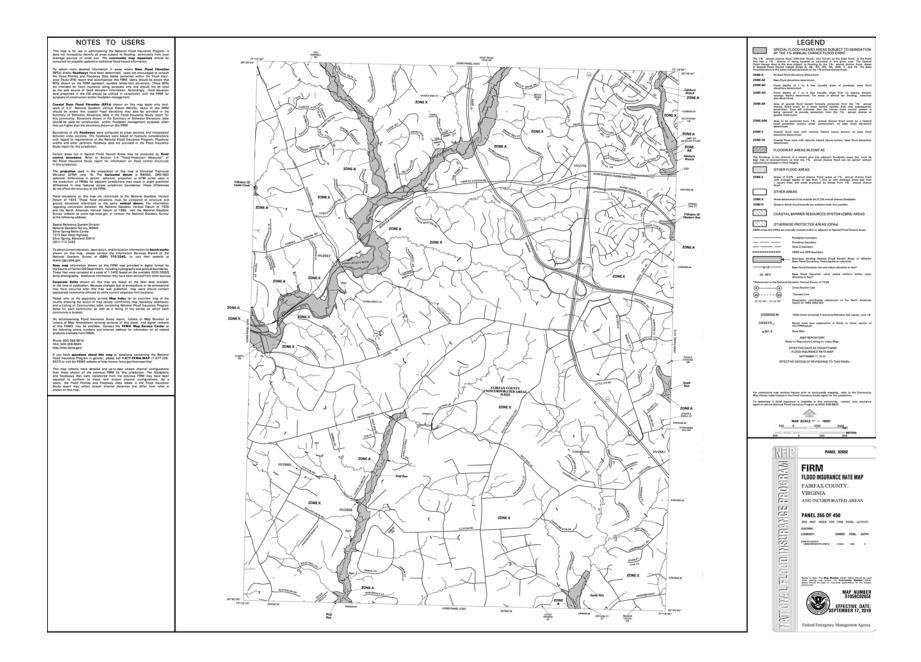


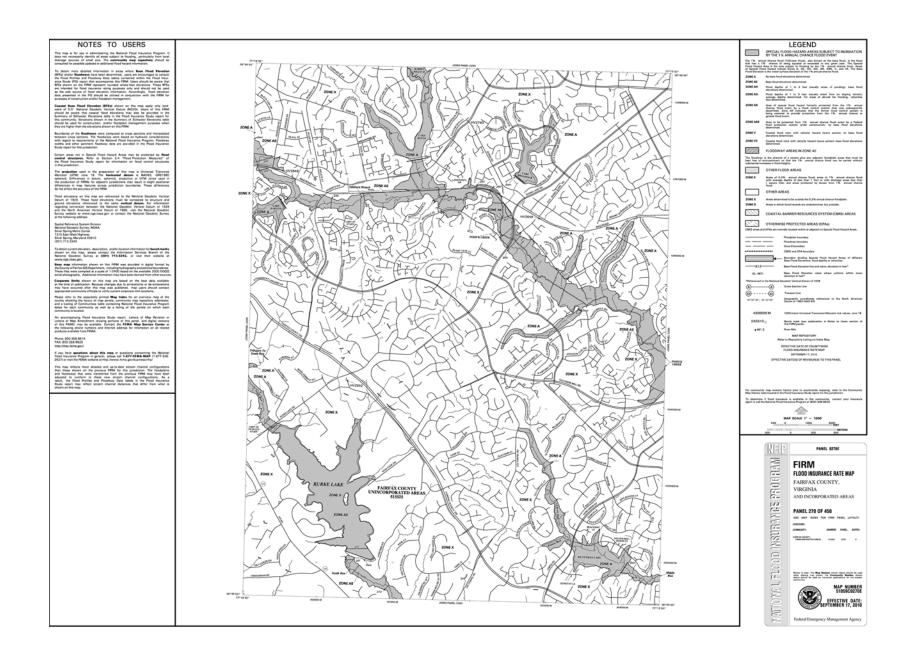


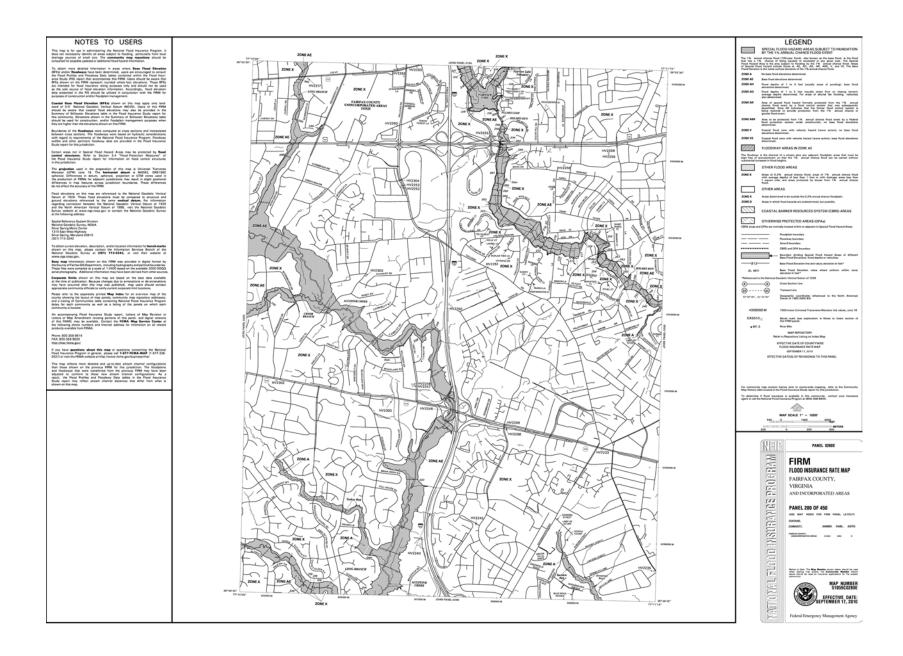


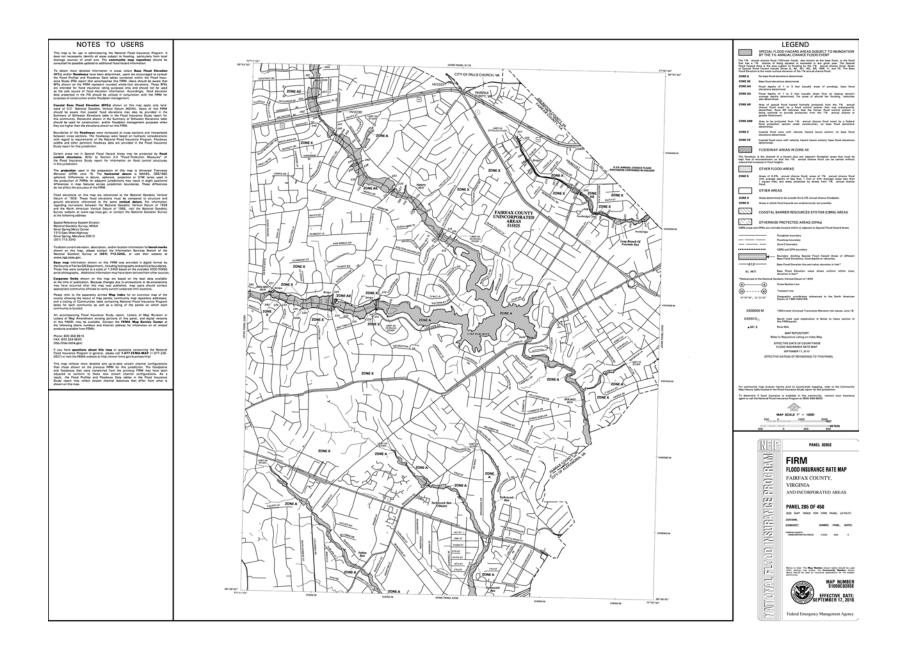


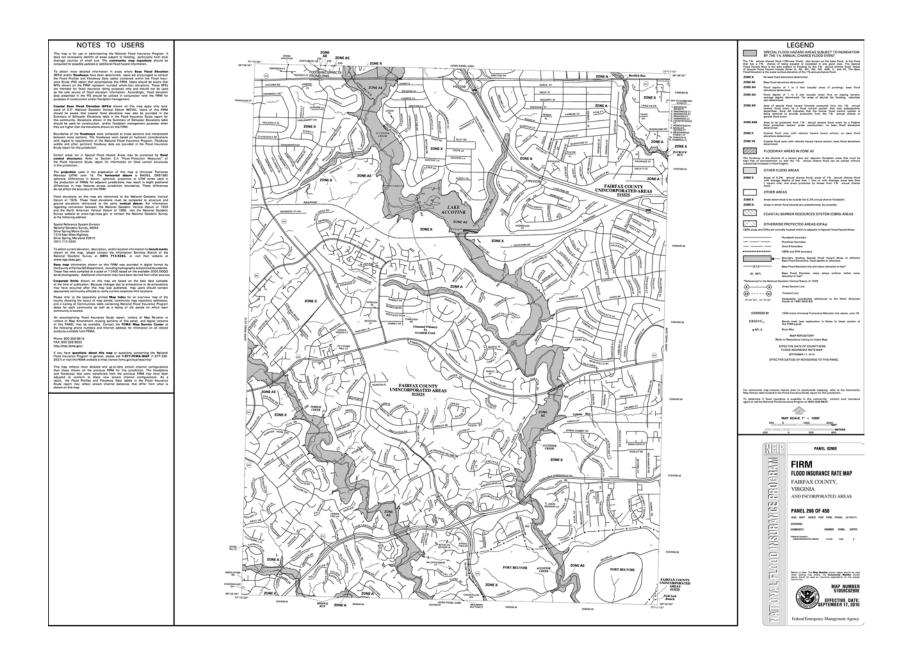


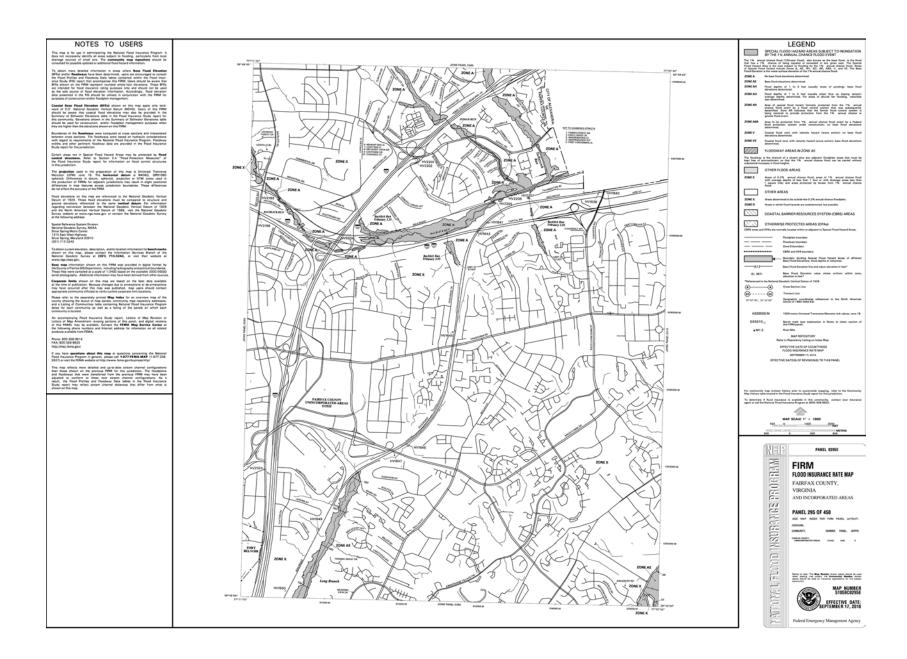


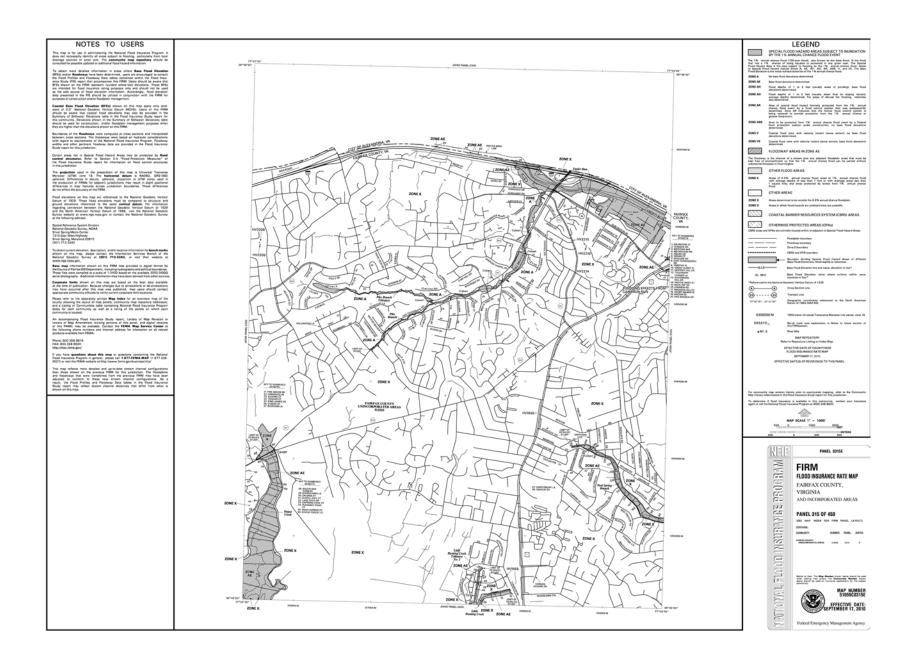


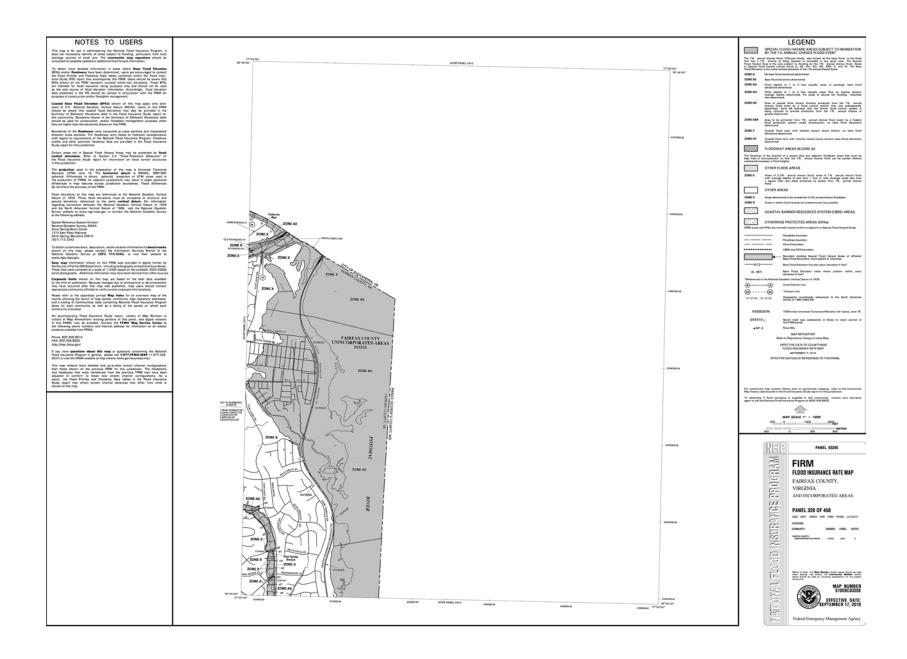


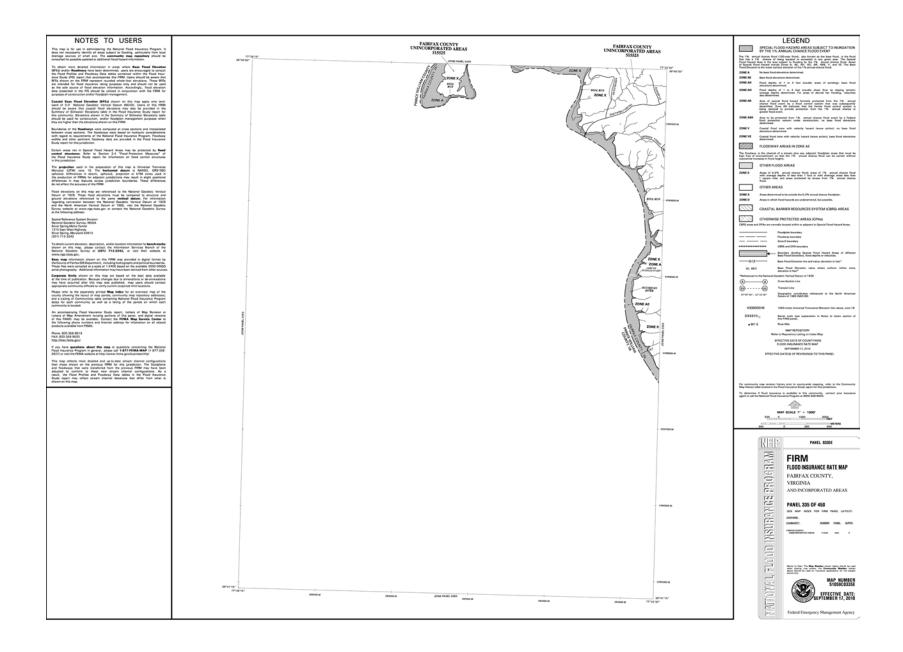


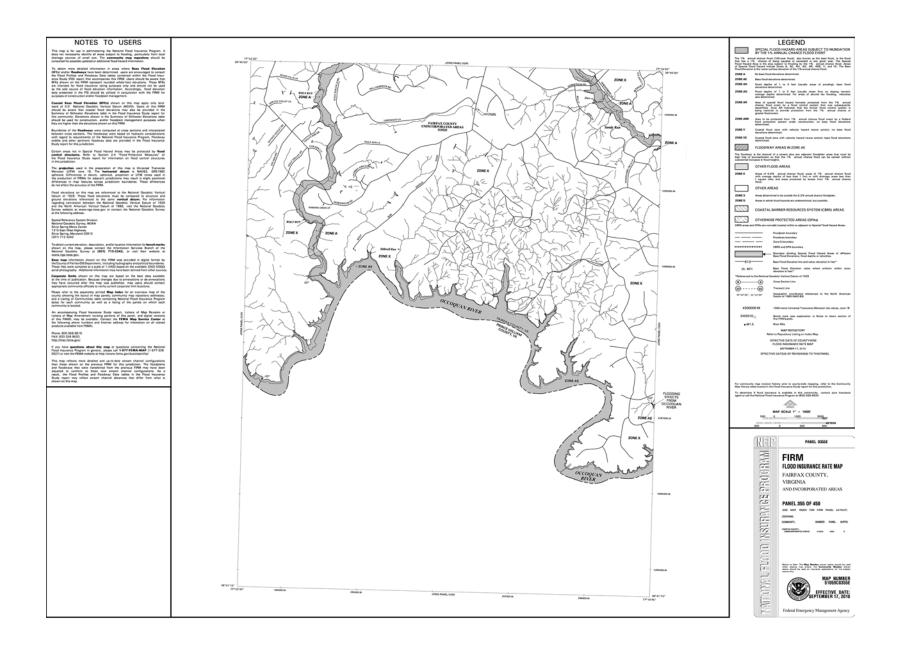


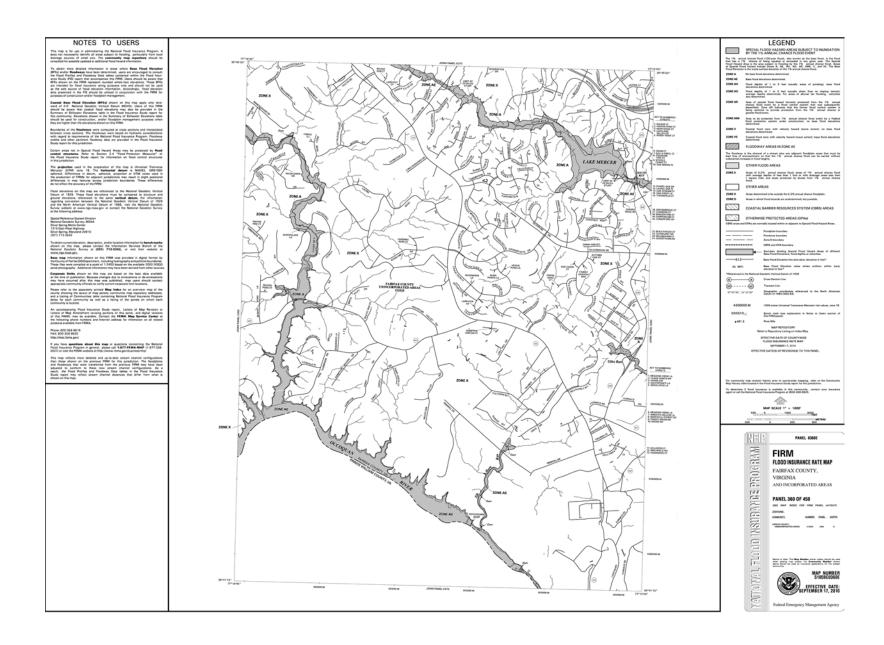


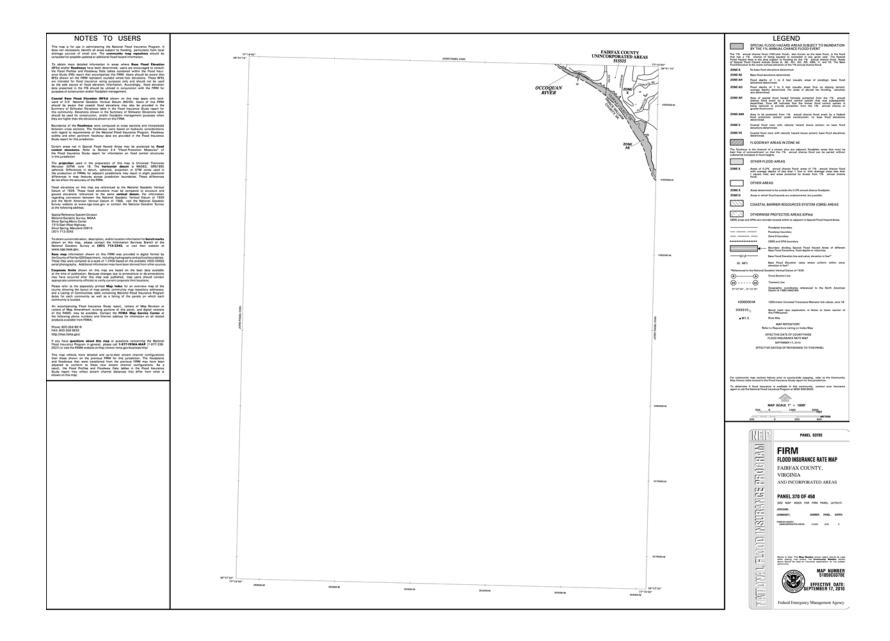


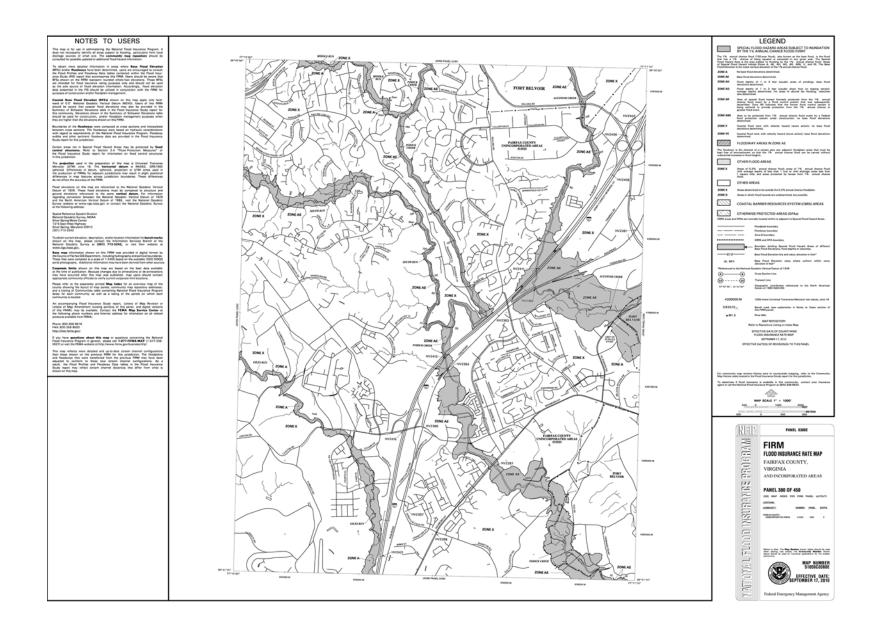


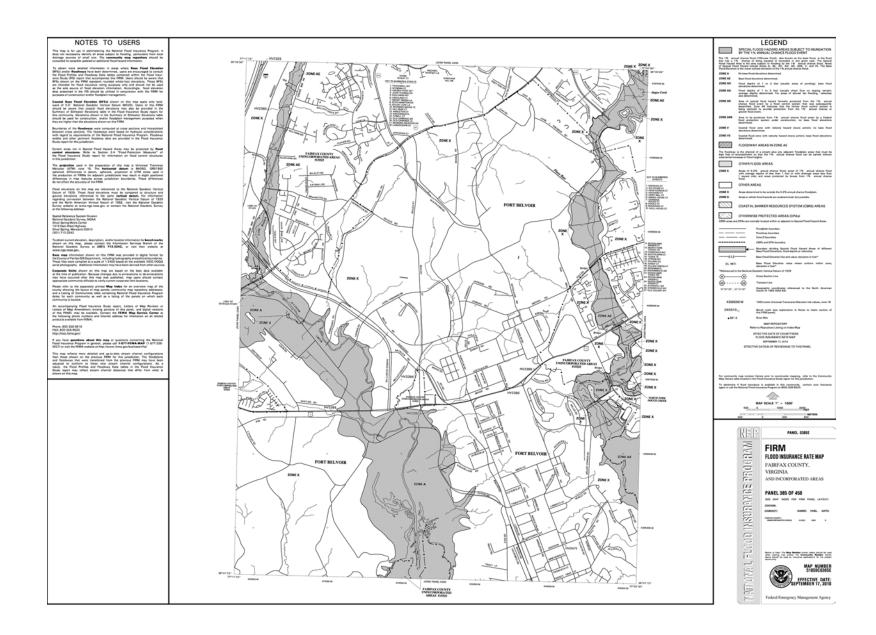


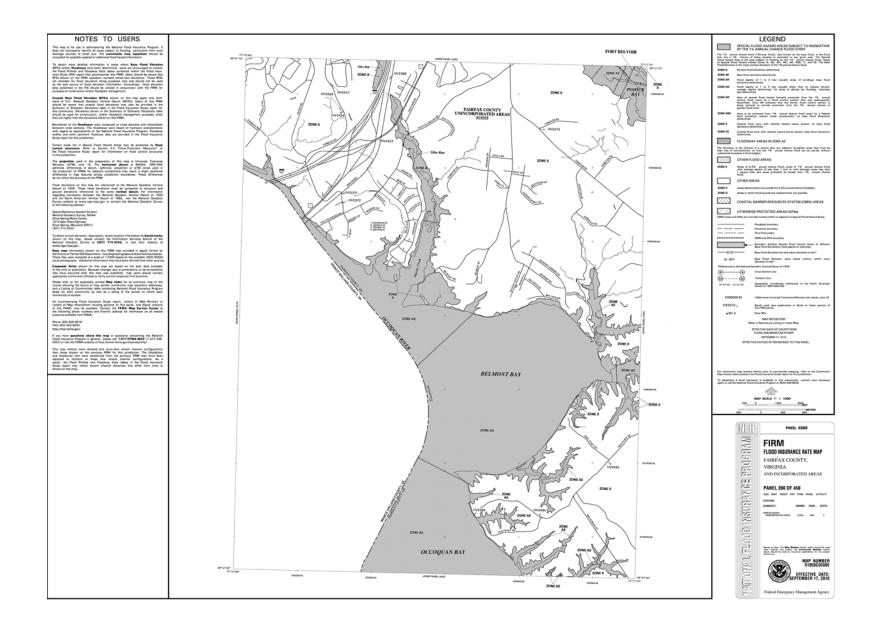


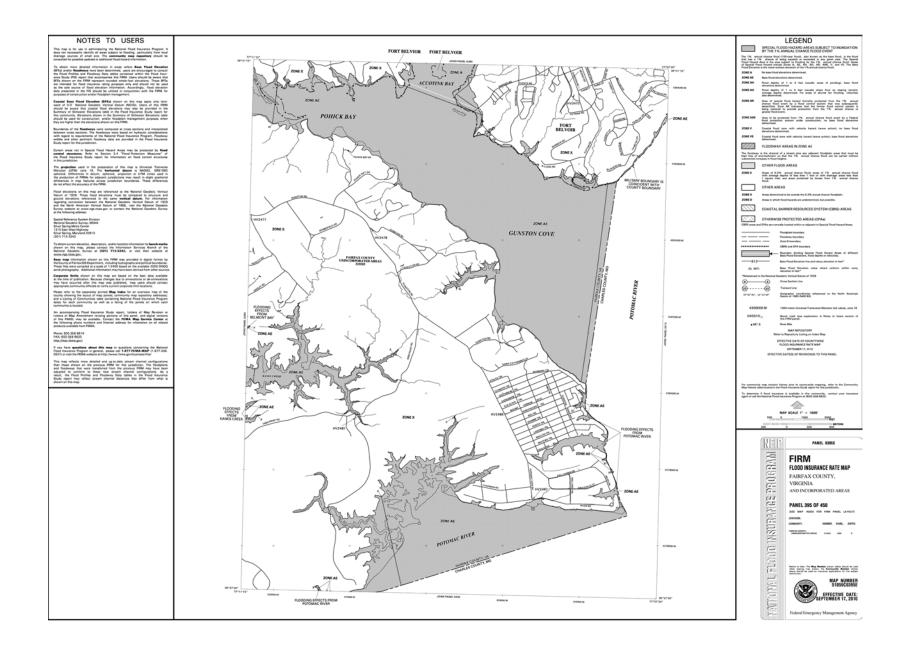


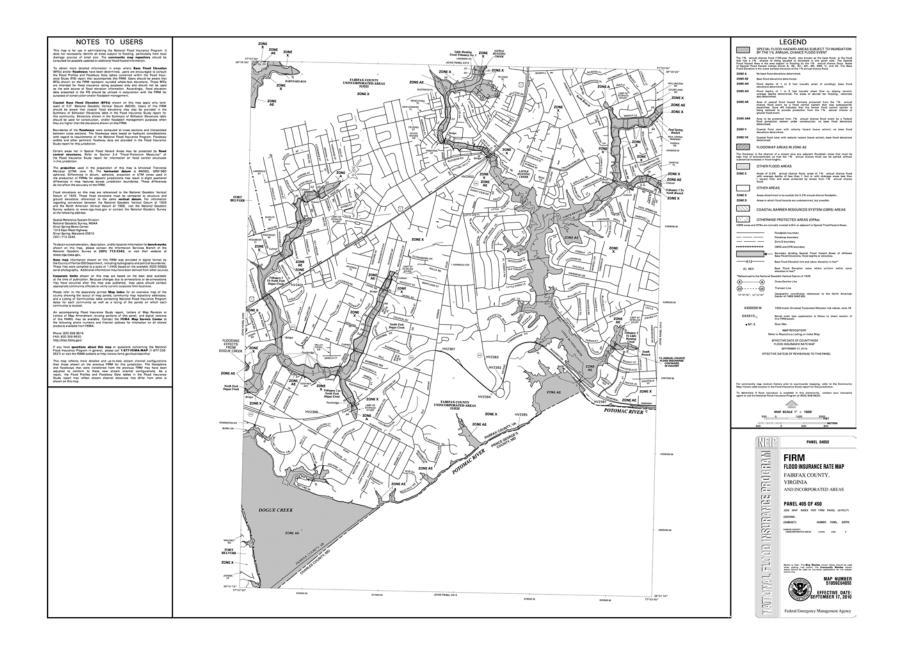


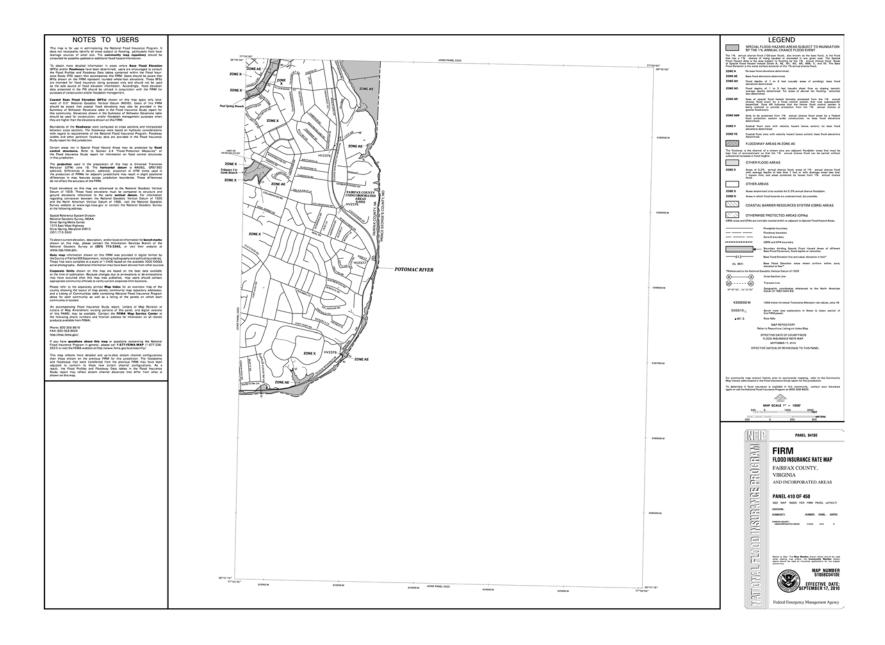


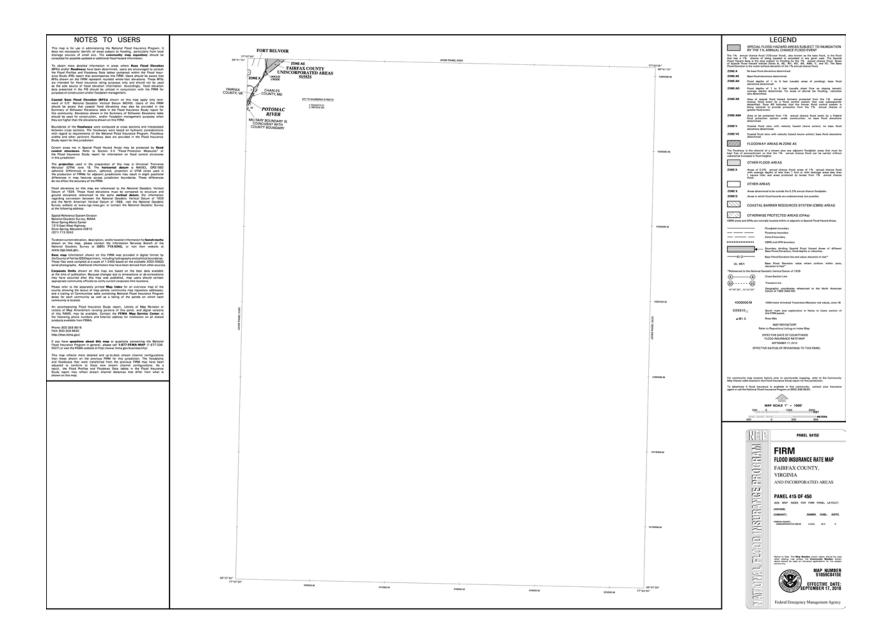


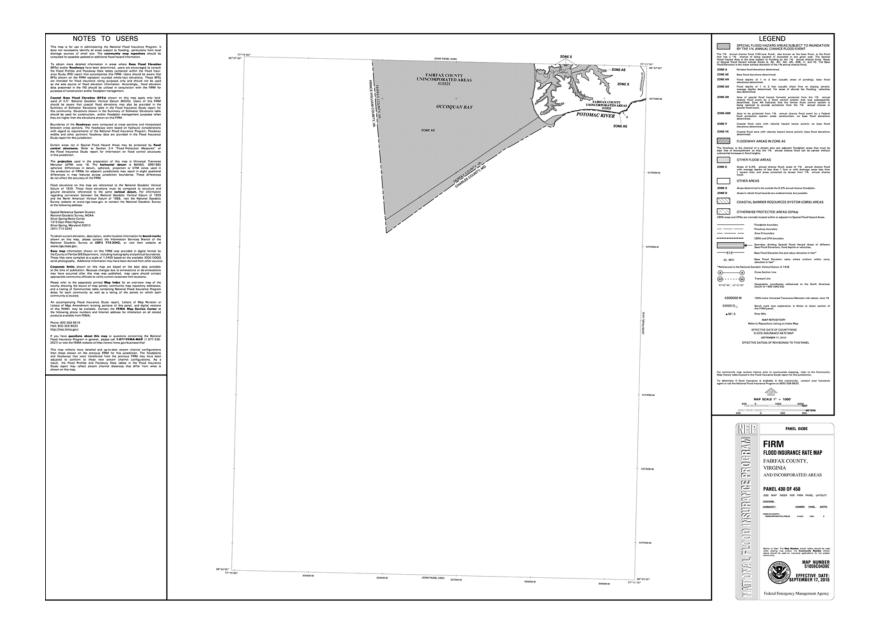


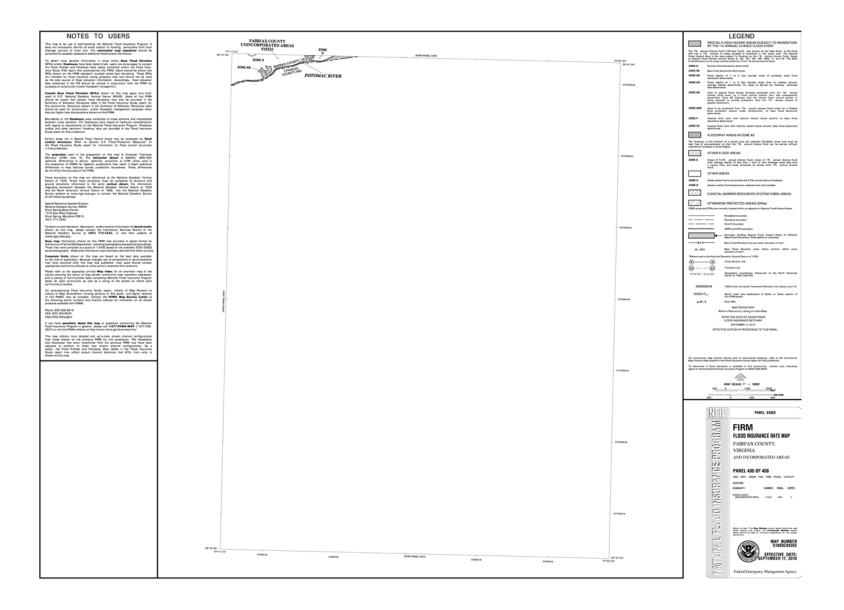












Fairfax County Historic Flood Damage Examples

ATTACHMENT C



















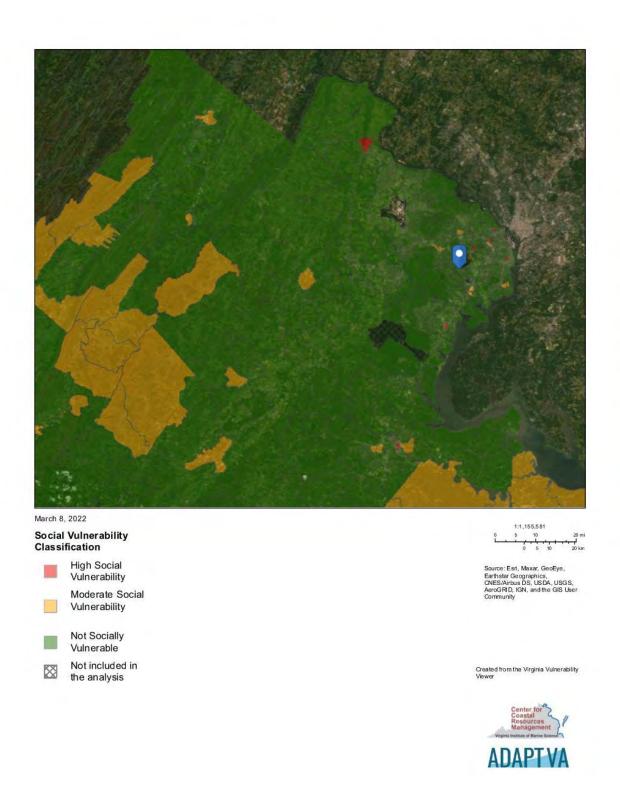












Attachment E. Approved Resilience Plan

Ann Jennings Secretary of Natural and Historic Resources and Chief Resilience Officer



Clyde E. Cristman

January 10, 2022

Joni Calmbacher, PE, CFM Project Manager II DPWES, Stormwater Planning Division Watershed Projects Implementation Branch – South 12000 Government Center Parkway Fairfax, VA 22035

RE: Fairfax County Resilience Plan Submission - CFPF

Dear Ms. Calmbacher,

Thank you for providing an overview of your Resilience Plan, and informing DCR of the various plans that Fairfax County will be utilizing to fulfill the Resilience Plan submission requirements. After careful review and consideration, the Virginia Department of Conservation and Recreation has deemed the Plan complete and meets all the criteria outlined in the 2021 Community Flood Preparedness Grant Manual. This approval will remain in effect for a period of three years, ending on January 11, 2025.

The following elements were evaluated as part of this review:

Element 1: It is project-based with projects focused on flood control and resilience. DCR RESPONSE

Meets criteria as written.

a. Project-based: Fairfax County is divided into 30 watersheds which have been addressed in 11 major watershed management plans. Each of the watershed management plans contains projects and watershed management area restoration strategies. The 2017 Northern Virginia Hazard Mitigation Plan was a regional effort involving nineteen counties, including Fairfax County, and outlines specific mitigation projects for each participating community in order to reduce vulnerability and exposure to future hazards, including flooding events. The Fairfax County FY 2022 - FY 2026 Capital Improvement Program, Stormwater Management contains projects at various locations throughout Fairfax County. The projects included and described in the Fairfax County FY 2022 - FY 2026 Capital Improvement Program, Stormwater Management align with the established Comprehensive Plan objectives. The Resilient Critical

600 East Main Street, 24th Floor | Richmond, Virginia 23219 | 804-786-6124

State Parks * Soil and Water Conservation * Outdoor Recreation Planning Natural Heritage * Dam Safety and Floodplain Management * Land Conservation Infrastructure Roadmap for Northern Virginia contains a database of resilience projects throughout northern Virginia, including Fairfax County.

2. Element 2: It incorporates nature-based infrastructure to the maximum extent possible. DCR RESPONSE

Meets criteria as written.

- a. The 2020 Regional Collaboration to Build Community Resilience in Northern Virginia expanded upon The Roadmap, to include maximization of green infrastructure. Nature-based solutions are also presented in the Fairfax County Watershed Management Plan and the Fairfax County FY 2022 - FY 2026 Capital Improvement Program, Stormwater Management.
- 3. Element 3: It includes considerations of all parts of a locality regardless of socioeconomics or race. DCR RESPONSE

Meets criteria as written.

- All parts of a locality: The Northern Virginia Hazard Mitigation Plan discusses the demographic and economic trends throughout the entirety of Fairfax County.
- b. Social vulnerability: The Regional Collaboration to Build Community Resilience in Northern Virginia presents a more comprehensive approach that includes an assessment of the socioeconomic impacts of infrastructure disruptions on vulnerable populations that will be taken into account as well as the socioeconomic benefits of infrastructure investment. This expanded upon objectives contained within The Roadmap, to ensure equitable access to resilient critical infrastructure.
- c. Demographic Analysis: Population and demographic characteristics outlined within the Northern Virginia Hazard Mitigation Plan. The Fairfax County Comprehensive Plan also looks at demographics and social factors and utilizes this information to support the Human Services section of the Comprehensive Plan.
- Element 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. DCR RESPONSE

Meets criteria as written.

a. Coordination with other local and inter-jurisdictional projects, plans and activities: <u>Objective 4: Strengthen Regional Resilience Through Innovative Partnerships, Programs, and Pilots contained within Resilient Critical Infrastructure Roadmap for Northern Virginia focuses on coordination with local and inter-jurisdictional agencies and aligning strategies and programs. The Comprehensive Plan for Fairfax County, Virginia was adopted by the Board of Supervisors, Planning Commission, The Department of Planning and Zoning, and the Department of Transportation, and guides all of the plans presented in the Resilience Plan</u>

submission for Fairfax County. The Northern Virginia Hazard Mitigation Plan was a collaborative effort that was adopted by all impacted localities.

- b. Clearly articulated timeline or phasing plan for implementation: Timeline for deliverables is presented within the Regional Collaboration to Build Community Resilience in Northern Virginia. Timeline presented within the Fairfax County FY 2022 FY 2026 Capital Improvement Program, Stormwater Management. Phased implementation plans presented in the Fairfax County Watershed Management Plans.
- 5. Element 5: Is based on the best available science, and incorporates climate change, sea level rise, storm surge (where appropriate), and current flood maps.

Meets criteria as written.

a. The 2018 Resilient Critical Infrastructure Roadmap for Northern Virginia (Roadmap) incorporates best available science and identifies actions to potentially decrease the severity of future consequences emanating from climate and extreme weather, to include sea level rise and storm surge. Sea Level Rise: Impact on Northern Virginia is an interactive story map and dashboard that was created in 2019 to convey the impact of sea level rise scenarios. The Northern Virginia Hazard Mitigation Plan includes analyses of natural hazards based on best available science to include flooding, sea level rise and land subsidence, tropical and coastal storms, and shoreline erosion.

VA DCR looks forward to working with you as you work to make Fairfax County a more resilient community. If you have questions or need additional assistance, please contact us at cfpf@dcr.virginia.gov. Again, thank you for your interest in the Community Flood Preparedness Fund.

Sincerely,

Wendy Howard Cooper, Director

Dam Safety and Floodplain Management

Suly there & Cooper

cc: Darryl Glover, DCR

Appendix A: Application Form for Grant Requests for All Categories

Virginia Department of Conservation and Recreation Virginia Community Flood Preparedness Fund Grant Program

Name of Local Government:
Fairfax County
Category of Grant Being Applied for (check one):
Capacity Building/Planning
Project
XStudy
NFIP/DCR Community Identification Number (CID) 515525
If a state or federally recognized Indian tribe, Name of tribe N/A
Name of Authorized Official: Christopher Herrington, Director Department of Public Works and Environmental Services
Signature of Authorized Official: Christopher Herungton
Mailing Address (1): 12000 Government Center Parkway
Mailing Address (2): Suite 448
City: Fairfax State: VA Zip: 22035
Telephone Number: (_703) 324-5033 Cell Phone Number: () <u>N/A</u>
Email Address: christopher.herrington@fairfaxcounty.gov

Co	ntact Person (If different from authorized official): Craig Carinci	
Ma	ailing Address (1): 12000 Government Center Parkway	
Ma	ailing Address (2): Suite 449	
Cit	ry: Fairfax State: VA Zip: 22035	
Tel	lephone Number: (703) 324-5500 Cell Phone Number: () N/A	
Em	nail Address:craig.carinci@fairfaxcounty.gov	
in t	the proposal in this application intended to benefit a low-income geographic area at the Part 1 Definitions? Yes No X tegories (select applicable project):	is defined
	oject Grants (Check All that Apply)	
	Acquisition of property (or interests therein) and/or structures for purposes of allog floodwater inundation, strategic retreat of existing land uses from areas vulnerable flooding; the conservation or enhancement of natural flood resilience resources; or acquisition of structures, provided the acquired property will be protected in perpention further development.	e to r
	Floodplain restoration. Construction of swales and settling ponds. Living shorelines and vegetated buffers. Structural floodwalls, levees, berms, flood gates, structural conveyances. Storm water system upgrades. Medium and large scale Low Impact Development (LID) in urban areas. Permanent conservation of undeveloped lands identified as having flood resilience Conserve Virginia Floodplain and Flooding Resilience layer or a similar data driven a	•
	tool. Dam restoration or removal. Stream bank restoration or stabilization. Restoration of floodplains to natural and beneficial function. Developing flood warning and response systems, which may include gauge installat notify residents of potential emergency flooding events.	tion, to

Study Grants (Check All that Apply)

X	Studies to aid in updating floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.
	Revising other land use ordinances to incorporate flood protection and mitigation goals, standards and practices.
X	Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA). For example, a local government might conduct a hydrologic and hydraulic study for an area that had not been studied because the watershed is less than one square mile. Modeling the floodplain in an area that has numerous letters of map change that suggest the current map might not be fully accurate or doing a detailed flood study for an A Zone is another example.
	Studies and Data Collection of Statewide and Regional Significance.
	Revisions to existing resilience plans and modifications to existing comprehensive and hazard.
	Other relevant flood prevention and protection project or study.
<u>Car</u>	pacity Building and Planning Grants
	Floodplain Staff Capacity.
	Resilience Plan Development
	 Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans. Resource assessments, planning, strategies and development. Policy management and/or development. Stakeholder engagement and strategies.
Loc	cation of Project (Include Maps): 27 Fairfax County Watersheds
NF	IP Community Identification Number (CID#):(See appendix F 515525

Is Project Located in an NFIP Participating Community?
Is Project Located in a Special Flood Hazard Area?
Flood Zone(s) (If Applicable): SFHA Zones A and AE
Flood Insurance Rate Map Number(s) (If Applicable): See spreadsheet
Total Cost of Project: \$640,000
Total Amount Requested \$320,000

FEMA FIRM P	anels
Panel	Effective Date
51059CIND0A	9/17/2010
51059C0020E	9/17/2010
51059C0040E	9/17/2010
51059C0045E	9/17/2010
51059C0065E	9/17/2010
51059C0095E	9/17/2010
51059C0110E	9/17/2010
51059C0115E	9/17/2010
51059C0120E	9/17/2010
51059C0130E	9/17/2010
51059C0135E	9/17/2010
51059C0140E	9/17/2010
51059C0145E	9/17/2010
51059C0155E	9/17/2010
51059C0160E	9/17/2010
51059C0165E	9/17/2010
51059C0170E	9/17/2010
51059C0180E	9/17/2010
51059C0190E	9/17/2010
51059C0210E	9/17/2010
51059C0230E	9/17/2010
51059C0235E	9/17/2010
51059C0240E	9/17/2010
51059C0245E	9/17/2010
51059C0255E	9/17/2010
51059C0260E	9/17/2010
51059C0265E	9/17/2010
51059C0270E	9/17/2010
51059C0280E	9/17/2010
51059C0285E	9/17/2010
51059C0290E	9/17/2010
51059C0295E	9/17/2010
51059C0315E	9/17/2010
51059C0320E	9/17/2010
51059C0335E	9/17/2010
51059C0355E	9/17/2010
51059C0360E	9/17/2010
51059C0370E	9/17/2010
51059C0380E	9/17/2010
51059C0385E	9/17/2010
51059C0390E	9/17/2010
51059C0395E	9/17/2010
51059C0405E	9/17/2010
51059C0410E	9/17/2010
51059C0415E	9/17/2010
51059C0430E	9/17/2010
51059C0435E	9/17/2010

Appendix C: Scoring Criteria for Studies

Virginia Department of Conservation and Recreation Virginia Community Flood Preparedness Fund Grant Program

Applicant Name: Fairfax County				
	Eligibility Information			
	Criterion		Description	Check One
1.	 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)? 			
	Yes	Yes Eligible for consideration X		
	No	Not elig	rible for consideration	
2.	2. Does the local government have an approved resilience plan and has provided a copy or link to the plan with this application?			
	Yes	Eligible	for consideration under all categories	X
	No	Eligible	for consideration for studies, capacity building, and planning only	
3.	3. If the applicant is <u>not a town, city, or county</u> , are letters of support from all affected local governments included in this application?			ocal
	Yes	Eligible	Eligible for consideration	
	No	Not elig	rible for consideration	
4.	4. Has this or any portion of this project been included in any application or program previously funded by the Department?			
	Yes	Not elig	ible for consideration	
	No	Eligible	for consideration	Χ
5.	5. Has the applicant provided evidence of an ability to provide the required matching funds?			
	Yes	Eligible	for consideration	X
	No	Not elig	rible for consideration	
	N/A	Match r	not required	

5	Studies Eligible for Consideration		X Yes □ No
Applicant Name:	Fairfax County		
	Scoring Information		
	Criterion	oint alue	Points Awarde d
6. Eligible Studies (Selec	ct all that apply)		
incorporate higher standa include establishing proce limited to, permitting, rec revising a floodplain ordin Rate Maps (FIRMs), upda	ances to maintain compliance with the NFIP or to ards that may reduce the risk of flood damage. This must esses for implementing the ordinance, including but not cord retention, violations, and variances. This may include nance when the community is getting new Flood Insurance ting a floodplain ordinance to include floodplain setbacks ag issues identified in a Corrective Action Plan.	30	30
risk or creating a crowd-s real-time flooding. This co	ions to identify, aggregate, or display information on flood ourced mapping platform that gathers data points about ould include a locally or regionally based web-based ows local residents to better understand their flood risk.	15	
Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA).		35	35
	on of Statewide and Regional Significance. Funding of regional significance and proposals will be considered for idies:		
	ation data and IDF information (rain intensity, duration, tes) including such data at a sub-state or regional scale on	45	
Regional relative simpacts.	sea level rise projections for use in determining future	45	
water supply, wat	ysis either statewide or regionally to state transportation, ter treatment, impounding structures, or other significant acture from flooding.	45	
☐ Flash flood studie	s and modeling in riverine regions of the state.	45	
Statewide or regionexisting gauge net	onal stream gauge monitoring to include expansion of tworks.	45	

New or updated delineations of areas of recurrent flooding, stormwater flooding, and storm surge vulnerability in coastal areas that include projections for future conditions based on sea level rise, more intense rainfall events, or other relevant flood risk factors.	45	
 Regional flood studies in riverine communities that may include watershed- scale evaluation, updated estimates of rainfall intensity, or other information. 	50	
X Regional hydrologic and hydraulic studies of floodplains.	45	45
 Studies of potential land use strategies that could be implemented by a local government to reduce or mitigate damage from coastal or riverine flooding. 	40	
 Other proposals that will significantly improve protection from flooding on a statewide or regional basis 	35	
7. Is the study area socially vulnerable? (Based on ADAPT VA's Social Vulnerability Index Score.)		
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)		
8. Is the proposed study part of an effort to join or remedy the community's probation or suspension from the NFIP?		
Yes 10		
No	0	0
9. Is the proposed study in a low-income geographic area as defined in this manua	1?	
Yes	10	
No	0	0
10. 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?		
Yes	5	
No	0	0
Total Points		110

Appendix D: Checklist All Categories

Virginia Department of Conservation and Recreation

Community Flood Preparedness Fund Grant Program

Scope of Work Narrative	
Supporting Documentation	Included
Detailed map of the project area(s) (Projects/Studies)	X Yes □ No □ N/A
FIRMette of the project area(s) (Projects/Studies)	X Yes □ No □ N/A
Historic flood damage data and/or images (Projects/Studies)	Xi Yes □ No □ N/A
A link to or a copy of the current floodplain ordinance	X Yes □ No □ N/A
Non-Fund financed maintenance and management plan for project extending a minimum of 5 years from project close	□ Yes □ No 🕱 N/A
A link to or a copy of the current hazard mitigation plan	X Yes □ No □ N/A
A link to or a copy of the current comprehensive plan	X Yes □ No □ N/A
Social vulnerability index score(s) for the project area from ADAPT VA's Virginia Vulnerability Viewer	X Yes □ No □ N/A
If applicant is not a town, city, or county, letters of support from affected communities	□ Yes □ No 🕱 N/A
Completed Scoring Criteria Sheet in Appendix B, C, or D	X Yes □ No □ N/A
Budget Narrative	
Supporting Documentation	Included
Authorization to request funding from the Fund from governing body or chief executive of the local government	X Yes □ No □ N/A
Signed pledge agreement from each contributing organization	□ Yes □ No 🕱 N/A



Howard-cooper, Wendy <wendy.howard-cooper@dcr.virginia.gov>

Re: FW: CFPF grant re-applications

1 message

Wells, Matthew <matthew.wells@dcr.virginia.gov>

Mon, Nov 28, 2022 at 3:49 PM

To: "Carinci, Craig A." < Craig. Carinci@fairfaxcounty.gov>

Cc: Wendy Howard-cooper < wendy.howard-cooper@dcr.virginia.gov>, Darryl Glover < darryl.glover@dcr.virginia.gov>, Joni.Calmbacher@fairfaxcounty.gov

Craig,

Thanks for reaching out on this. DCR will accept the County Executive's certification regarding the availability and provision of matching funds for Fairfax's proposed projects when evaluating your applications. However, any grant awards based on this certification would be issued conditionally, with a requirement that the Board of Supervisors vote to specifically approve matching funds for the projects receiving CFPF funds no later than February 1, 2023.

Additionally, we noted that the linked county plan has five year timetables for these two and several other projects. As a reminder, please be advised that all CFPF grants are conditioned on project completion within three years. Applications must reflect only the portion of the project that will be completed during the grant period.

Thanks, and please let me know if you have any additional questions, Matt

On Fri, Nov 18, 2022 at 4:36 PM Carinci, Craig A. <Craig.Carinci@fairfaxcounty.gov> wrote:

From: Carinci, Craig A.

Sent: Friday, November 18, 2022 4:14 PM

To: Mathew.wells@dcr.virginia.gov

Cc: wendy.howard-cooper@dcr.virginia.gov; Calmbacher, Joni < Joni.Calmbacher@fairfaxcounty.gov>

Subject: CFPF grant re-applications

Matt

Thanks for taking some time to discuss the email that we received from Wendy today, how Fairfax County funds stormwater projects and that with rare exception, specific projects are not identified in our published CIP. I have included a link to the Stormwater CIP below. I also have attached the cover letters for two of the grant applications that also refer to the County Executive's commitment to fund the project subject to County Board approval. We trust that the information in these letters demonstrate our commitment to fund the projects if the grants are approved. Please let Joni Calmbacher (703) 324-2183 and I know if you have any questions or need any additional information.

Stormwater Management - Adopted Capital Improvement Program (CIP) FY 2023- FY 2027 (fairfaxcounty.gov)

Thanks again for your guick response and taking the time to discuss our concerns.

Craig

Craig Carinci, Director

Stormwater Planning Division, DPWES

12000 Government Center Parkway, Suite 449

Fairfax, VA 22035

Phone: (703) 324-5865

Email: Craig.Carinci@fairfaxcounty.gov

Calmbacher, Joni

From: Wells, Matthew <matthew.wells@dcr.virginia.gov>

Sent: Monday, November 28, 2022 3:49 PM

To: Carinci, Craig A.

Cc: Wendy Howard-cooper; Darryl Glover; Calmbacher, Joni

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Stormwater Management - Adopted Capital Improvement Program (CIP) FY 2023- FY 2027 (fairfaxcounty.gov)
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12000 Government Center Parkway, Suite 449

Phone: (703) 324-5865

Email: Craig.Carinci@fairfaxcounty.gov