

3664 - Town of Abingdon Study of Flooding based on the Resiliency Plan

Application Details

Funding Opportunity:

3294-Virginia Community Flood Preparedness Fund - Study Grants - CY25 Round 6

Funding Opportunity Due Date: Dec 1, 2025 11:59 PM

Program Area: Virginia Community Flood Preparedness Fund

Status: Under Review

Stage: Final Application

Initial Submit Date: Nov 26, 2025 9:36 AM

Initially Submitted By: Laura Dowell

Last Submit Date:

Last Submitted By:

Contact Information

Primary Contact Information

Active User*: Yes

Type: External User

Name*: Mrs. Laura Middle Name Dowell
Salutation First Name Last Name

Title:

Email*: ldowell@abingdon-va.gov

Address*: 133 West Main Street

Abingdon Virginia 24210
City State/Province Postal Code/Zip

Phone*: 276-492-2140 Ext.

Phone

####-####-####

Fax: ####-####-#####

Comments:

Organization Information

Status*: Approved
Name*: Town of Abingdon
Organization Type*: Local Government
Tax ID*: 54-6001096
Unique Entity Identifier (UEI)*: VAVHUL1GNHH1
Organization Website: <https://abingdon-va.gov/>
Address*: 133 West Main Street

Abingdon Virginia 24210-
City State/Province Postal Code/Zip

Phone*: (276) 492-2140 Ext.

###-###-####

Fax: ####-####-####

Benefactor:

Vendor ID:

Comments:

VCFPF Applicant Information

Project Description

Name of Local Government*: Town of Abingdon

Your locality's CID number can be found at the following link: [Community Status Book Report](#)

NFIP/DCR Community 510169

Identification Number (CID)*:

If a state or federally recognized Indian tribe,

Name of Tribe:

Authorized Individual*: Mike Cochran
First Name Last Name

Mailing Address*: PO Box 789
Address Line 1
Address Line 2
Abingdon Virginia 24212
City State Zip Code

Telephone Number*: 276-492-2138

Cell Phone Number*: 276-492-2138

Email*: mcochran@abingdon-va.gov

Is the contact person different than the authorized individual?

Contact Person*: Yes

Contact: Laura Dowell
First Name Last Name

PO Box 789
Address Line 1
Address Line 2

Abingdon Virginia 24212
City State Zip Code

Telephone Number: 276-492-2140

Cell Phone Number: 276-492-2140

Email Address: ldowell@abingdon-va.gov

Enter a description of the project for which you are applying to this funding opportunity

Project Description*:

The Town of Abingdon seeks funding to complete a targeted flood mitigation study that advances recommendations identified in the Town's DRC-approved 2025 Flood Resiliency Plan. The study will analyze three recurring flood areas and update the Town's incomplete stormwater GIS inventory through field surveys, drainage mapping, and preliminary engineering to identify causes and develop actionable mitigation solutions. **Low-income geographic area means any locality, or community within a locality, that has a median household income that is not greater than 80 percent of the local median household income, or any area in the Commonwealth designated as a qualified opportunity zone by the U.S. Secretary of the Treasury via his delegation of authority to the Internal Revenue Service. A project of any size within a low-income geographic area will be considered.**

Is the proposal in this application intended to benefit a low-income geographic area as defined above?

Benefit a low-income geographic area*: Yes

Information regarding your census block(s) can be found at census.gov

Census Block(s) Where Project will Occur*:

Census Tract 010502 of Washington County (Block Groups 010502-1, 010502-2, and 010502-3)

Is Project Located in an NFIP Yes

Participating Community?*:

Is Project Located in a Special Flood Hazard Area?*: Yes

Flood Zone(s) (if applicable): Zone A, Zone AE and Zone X (Both shaded and unshaded)

Flood Insurance Rate Map Number(s) (if applicable):

51191C0260C, 51191C0280C, 51191C0285C, 51191C0290C, and 51191CIND0A

Eligibility - Round 4

Eligibility

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)?

Local Government*:

Yes

Yes - Eligible for consideration

No - Not eligible for consideration

If the applicant is not a town, city, or county, are letters of support from all affected local governments included in this application?

Letters of Support*:

N/A

Yes - Eligible for consideration

No - Not eligible for consideration

Has this or any portion of this project been included in any application or program previously funded by the Department?

Previously Funded*:

No

Yes - Not eligible for consideration

No - Eligible for consideration

Has the applicant provided evidence of an ability to provide the required matching funds?

Evidence of Match Funds*:

Yes

Yes - Eligible for consideration

No - Not eligible for consideration

N/A - Match not required

Scope of Work - Studies - Round 4

Scope of Work

Upload your Scope of Work

Please refer to Part IV, Section B. of the grant manual for guidance on how to create your scope of work

Scope of Work*:

CID510169_TownOfAbingdon_CFPF_ScopeOfWork.pdf

Comments:

Scope of Work

Budget Narrative

Budget Narrative Attachment*: CID510169_TownOfAbingdon_CFPF_BudgetNarrative.pdf

Comments:

Budget Narrative

Scoring Criteria for Studies - Round 4

Scoring

Revising 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 Floodplain Ordinances*: No
Select

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.

Mapping Platform*: Yes
Select

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).

Hydrologic and Hydraulic Studies*: Yes
Select

Funding of studies of statewide and regional significance and proposals will be considered for the studies listed below - Up to 45 points

Studies and Data Collection of Statewide and Regional Significance Scoring:

Updating precipitation data and IDF information (rain intensity, duration, frequency estimates) including such data at a sub-state or regional scale on a periodic basis. (45)

Regional relative sea level rise projections for use in determining future impacts. (45)

Vulnerability analysis either statewide or regionally to state transportation, water supply, water treatment, impounding structures, or other significant and vital infrastructure from flooding. (45)

Flash flood studies and modeling in riverine regions of the state. (45)

Statewide or regional stream gauge monitoring to include expansion of existing gauge networks. (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. (45)

Regional hydrologic and hydraulic studies of floodplains. (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)

Studies and Data Collection of Statewide and Regional Significance*:

Regional flood studies in riverine communities that may include watershed scale evaluation, updated estimates of rainfall intensity, or other information

Is the project area socially vulnerable? (based on ADAPT Virginia's Social Vulnerability Index Score)

Social Vulnerability Scoring:

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)

Socially Vulnerable*: Moderate Social Vulnerability

Is the proposed project part of an effort to join or remedy the community's probation or suspension from the NFIP?

NFIP*: No

Is the proposed project in a low-income geographic area as defined below?

"Low-income geographic area" means any locality, or community within a locality, that has a median household income that is not greater than 80 percent of the local median household income, or any area in the Commonwealth designated as a qualified opportunity zone by the U.S. Secretary of the Treasury via his delegation of authority to the Internal Revenue Service. A project of any size within a low-income geographic area will be considered.

Low-Income Geographic Area*: Yes

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?

Reduction of Nutrient and Sediment Pollution*: No

Comments:

Scope of Work Supporting Information - Studies

Scope of Work Supporting Information

Is the proposed study a new study or updates on a prior study?

New or Updated Study*: New Study

Describe the relationship of the study to the local government's needs for flood prevention and protection, equity, community improvement, identification of nature-based solutions or other priorities contained in this manual

Relationship of Study to

Priorities Contained in this

Manual*:

The proposed study directly supports the Town of Abingdon's urgent needs for flood prevention, protection, and long-term resilience by advancing two priorities identified in the 2025 Flood Resilience Plan: (1) the need for engineering solutions for three documented flood-prone areas, and (2) the need for a complete and accurate stormwater GIS inventory. The Plan identifies recurring flooding caused by blocked natural drainage paths, aging or undocumented stormwater pipes, and two historic mill dams along Wolf Creek that significantly alter flow but are not represented in FEMA's current floodplain mapping. Without engineering analysis, updated mapping, or hydrologic and hydraulic modeling, the Town cannot fully understand these problems or develop implementable mitigation strategies. This study fills that gap.

The project supports community improvement and equity by focusing on locations where repeated flooding affects residential areas, roadways, and neighborhoods that include older residents, renters, and households with fewer resources to recover from losses. By defining causes of flooding and evaluating feasible solutions, the study will help reduce impacts to homes, businesses, emergency access routes, and critical infrastructure. This supports DCR's equity priority by ensuring that communities facing disproportionate flood risk receive targeted resilience investment and enhanced levels of protection.

The study will also support long-term maintenance and system reliability by addressing the Plan's identified need to map missing storm drain infrastructure and document drainage easements. A complete stormwater GIS inventory will allow the Town to plan maintenance proactively, prevent failures caused by blockages or debris, and ensure consistent access to infrastructure located on private property.

Consistent with CFPF guidance, the study will evaluate nature-based and hybrid solutions alongside traditional engineering measures that have the ability to improve water quality, reduce long-term maintenance needs, and provide more sustainable and cost-effective resilience outcomes.

Overall, the study will convert planning-level findings into actionable engineering direction. It will give the Town the technical basis needed to pursue construction funding, advance high-priority mitigation projects, and strengthen long-term flood resilience for the Abingdon community.

Describe the qualifications of the individuals or organizations charged with conducting the study or the elements of any request for proposal that define those qualifications

Qualifications of Individuals

Conducting Study*:

The Town of Abingdon will procure a qualified firm in accordance with the Virginia Public Procurement Act (VPPA) and local procurement policies. A formal Request for Proposal (RFP) will be issued to ensure full and open competition and to secure a contractor with the specialized expertise required for a comprehensive, town-wide flooding study.

The RFP will define minimum qualifications that include:

Demonstrated Experience: Proven experience completing hydrologic and hydraulic analyses, floodplain studies, flood vulnerability assessments, and resilience planning for Virginia localities. Firms must show successful completion of projects that meet FEMA, NFIP, and state CFPF standards.

Technical Expertise: A multidisciplinary team including licensed Professional Engineers (PEs) in Virginia with expertise in civil engineering, water resources engineering, and floodplain management; GIS analysts proficient in advanced geospatial modeling; and subject matter experts with experience preparing or updating Flood Insurance Rate Maps (FIRMs), IDF curves, and related technical datasets.

Regulatory Knowledge: Documented understanding of Virginia floodplain regulations, the NFIP, FEMA mapping guidance, and applicable DEQ/CFPF requirements. Experience updating or drafting floodplain ordinances and advising localities on resilience strategies is preferred.

Modeling Capabilities: Proficiency with industry-standard software platforms-including HEC-RAS, HEC-HMS, GIS-based modeling tools, and other accepted methodologies-for simulating historic, current, and future flood conditions.

Data Management and Integration: Ability to utilize existing data sources, incorporate new data collection where required, and deliver high-quality geospatial datasets, maps, modeling outputs, and implementation recommendations.

Project Management Capacity: A demonstrated ability to manage projects of similar scale, adhere to deadlines, coordinate with stakeholders, and provide clear documentation and deliverables suitable for long-term local government use.

Past Performance: Strong references from comparable studies within Virginia or the region, including evidence of producing accurate, actionable, and regulator-compliant work products.

Through this competitive procurement process, the Town will select the most qualified firm capable of delivering a comprehensive, defensible study that supports Abingdon's long-term flood resilience planning.

Describe the expected use of the study results in the context of the local resilience plan or, in the case of regional plans, how the study improves any regional approach

Expected use of Study Results*:

The results of this study will be used to directly advance the recommendations outlined in the Town of Abingdon's DCR-approved 2025 Flood Resilience Plan by transforming its planning-level findings into engineering-ready solutions.

For each of the three flood-prone areas, the study will collect field data, perform hydraulic modeling, engineering calculations, and provide alternative evaluations to determine exactly why flooding occurs and what interventions are feasible. The results will identify mitigation options tailored to each area, which may include dam modification or removal, culvert improvements, re-establishing natural flow paths, enhanced channel capacity, debris and beaver obstruction management, or other stormwater upgrades. These engineering findings will be used by the Town to prioritize interventions, prepare capital planning budgets, coordinate with property owners, and begin developing construction-level designs.

Additionally, a major use of the study results will be completing the Town's stormwater GIS inventory, which the Plan identifies as incomplete and insufficient for modeling or maintenance. By surveying missing storm drains, culverts, pipes, easements, and contributing drainage areas, the Town will be able to establish an accurate and comprehensive GIS dataset. This dataset will support long-term maintenance planning, improved stormwater management, drainage easement acquisition, and modeling required for capital project development.

Finally, the study will provide the technical documentation, conceptual designs, and preliminary cost estimates needed for the Town to pursue future implementation funding through CFPF, and other federal or state sources. By producing clear, defensible engineering guidance, the study will allow the Town to move from planning to action and begin implementing projects that meaningfully reduce flood risk, protect vulnerable neighborhoods, and improve community resilience.

If applicable, describe how the study may improve Virginia's flood protection and prevention abilities in a statewide context (type N/A if not applicable)

Statewide Improvements*:

The study will focus on localized flooding within the Town of Abingdon; however, its outcomes will strengthen Virginia's broader flood protection capabilities.

By completing a full storm drain and stormwater GIS inventory, something identified as a major statewide gap, the study will create a replicable model for other small Virginia localities seeking to document missing pipes, culverts, structures, and easements. The updated hydrologic and hydraulic modeling will also support statewide efforts to improve flood modeling and incorporate unmapped tributaries and contributing drainage areas into FEMA-based assessments.

The study also supports statewide goals by improving understanding of watershed-scale interactions and downstream impacts, particularly within the Wolf Creek system. Two historic dams are located along Wolf Creek, currently not reflected in FEMA's floodplain mapping; evaluating these will provide insight relevant to other rural communities facing similar legacy infrastructure issues.

Provide a list of repetitive and/or severe repetitive loss properties. Do not provide the addresses for the properties, but include an exact number of repetitive and/or severe repetitive loss structures within the project area

Repetitive Loss and/or Severe

CID510169_TownOfAbingdon_CFPF_Structures.pdf

Repetitive Loss Properties*:

Describe the residential and commercial structures impacted by this project, including how they contribute to the community such as historic, economic, or social value. Provide an exact number of these structures in the project area

Residential and/or Commercial

Structures*:

Across the three flood-prone areas identified in the Town's 2025 Resilience Plan, this project will protect 34 single-family homes, 3 duplexes, 1 apartment building, 4 businesses, 1 warehouse, a major highway, and a railroad crossing. These locations include some of the Town's most socially and economically vulnerable residential areas, along with critical commercial and transportation assets, making mitigation essential for long-term community resilience.

Location 1 - ?Mill Dam near Stone Mill Road SW? includes 3 duplexes and 3 single-family homes occupied by long-time residents and working families with limited capacity to absorb repetitive losses. Flooding here restricts access to the nearby interstate, isolating households from employment, healthcare, and emergency services. Addressing this location directly supports CFPF equity priorities by reducing impacts on vulnerable residents who face consistent recovery costs. Location 1 is considered to a ?Low Social Vulnerability? area.

Location 2 - ?Mill Dam near W Main Street? contains 3 single-family homes, 1 business, and a major state highway. Flooding along this corridor disrupts school transportation, commercial deliveries, utility access, and emergency vehicle mobility-effects that extend well beyond the immediate project area. The business located here provides taxable revenue and local jobs, aligning with CFPF goals to protect at-risk economic assets. Location 2 is considered a ?Moderate Social Vulnerability? area.

Location 3 - ?223 Preston Street? is the most densely developed, including 22 single-family homes, 1 apartment building, 3 businesses, 1 warehouse, and an active railroad crossing. Many residents experience frequent flood-related property damage and limited routes for safe travel. Flooding threatens the operations of small businesses and a warehouse that supports local employment and supply needs. The railroad crossing is a critical logistics and emergency routing point; when blocked by high water, community-wide mobility and public safety are compromised. Location 3 is considered a ?High Social Vulnerability? area.

Together, these structures support over 150 residents, multiple small businesses, and essential transportation networks. Mitigating flooding in these three areas advances CFPF objectives by protecting vulnerable households, preserving local economic activity, improving emergency access, and enhancing communitywide resilience to future storm events.

If there are critical facilities/infrastructure within the project area, describe each facility

Critical Facilities/Infrastructure*:

The project area contains several critical facilities and infrastructure components that are essential for public safety, economic function, and daily community mobility. Both Porterfield Highway and Preston Street serve as primary routes for EMS, fire, law enforcement, school buses, and freight delivery, making them critical access corridors whose flooding restricts emergency response and disrupts regional transportation. The project area also contains waterlines, sewer lines, and gas lines, which are vulnerable to erosion, infiltration, and service interruption during storm events; protecting these buried utilities helps prevent system failures, contamination risks, and costly repairs.

Within the Porterfield Highway corridor, Envision Eye Care functions as an important healthcare provider serving local residents. Flooding near this facility limits access to medical services and disrupts patient care. Along Preston Street, several commercial facilities support essential economic and logistical functions. Eades Auto Repair & Towing provides towing and vehicle recovery services used by residents and, at times, first responders. Country Boy Seed Inc. serves Washington County's agricultural community by supplying field seeds, erosion control materials, and hydroseed products relied upon by farms and contractors throughout the region. Abingdon Pet Grooming provides full-service grooming for pets and companion animals, supporting local households and small-business employment. Preston Street is also home to an RV storage warehouse, which accommodates

recreational vehicles and trailers used by residents for travel, seasonal mobility, and equipment storage.

Collectively, these facilities and infrastructure components represent critical community assets whose protection directly supports CFPF priorities by preserving emergency access, safeguarding essential utilities, and maintaining economic continuity across an at-risk portion of Abingdon.

Budget

Budget Summary

Grant Matching Requirement*:

LOW INCOME - Flood Prevention and Protection Studies - Fund 90%/Match 10%

Is a match waiver being requested?

Match Waiver Request Yes

Note: Only low-income communities are eligible for a match waiver

*:

I certify that my project is in a low-income geographic area: Yes

Total Project Amount (Request + Match)*: \$225,000.00
**This amount should equal the sum of your request and match figures

REQUIRED Match Percentage Amount: \$22,500.00

BUDGET TOTALS

Before submitting your application be sure that you meet the match requirements for your project type.

Match Percentage:

10.00%

Verify that your match percentage matches your required match percentage amount above.

Total Requested Fund Amount: \$202,500.00

Total Match Amount: \$22,500.00

TOTAL: \$225,000.00

Personnel

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Fringe Benefits

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Travel

Description	Requested Fund Amount	Match Amount	Match Source
No Data for Table			

Equipment

Description	Requested Fund Amount	Match Amount	Match Source
No Data for Table			

Supplies

Description	Requested Fund Amount	Match Amount	Match Source
No Data for Table			

Construction

Description	Requested Fund Amount	Match Amount	Match Source
No Data for Table			

Contracts

Description	Requested Fund Amount	Match Amount	Match Source
Engineering Evaluation of 3 Flood Prone Areas	\$67,500.00	\$7,500.00	Town of Abingdon General Fund
Update Town-Wide Stormwater GIS Inventory	\$135,000.00	\$15,000.00	Town of Abingdon General Fund
\$202,500.00		\$22,500.00	

Pre-Award and Startup Costs

Description	Requested Fund Amount	Match Amount	Match Source
No Data for Table			

Other Direct Costs

Description	Requested Fund Amount	Match Amount	Match Source
No Data for Table			

Supporting Documentation

Supporting Documentation

Named Attachment	Required Description	File Name

Named Attachment	Required Description	File Name	Type
Detailed map of the project area(s) (Projects/Studies)	Map of Project Areas	CID510169_TownOfAbingdon_CFPF_FloodMitigationAreasMap.pdf	pc
FIRMette of the project area(s) (Projects/Studies)	FIRMettes	CID510169_TownOfAbingdon_CFPF_FIRMettes.pdf	pc
Historic flood damage data and/or images (Projects/Studies)	Images of Flood Damage	CID510169_TownOfAbingdon_CFPF_ImagesFloodDamages.pdf	pc
A link to or a copy of the current floodplain ordinance	Town of Abingdon Floodplain Ordinance	CID510169_TownOfAbingdon_CFPF_FloodplainOrdinance.pdf	pc
Maintenance and management plan for project			
A link to or a copy of the current hazard mitigation plan	Hazard Mitigation Plan	CID510169_TownOfAbingdon_CFPF_HazardMitigationPlan.pdf	pc
A link to or a copy of the current comprehensive plan	Town of Abingdon Comprehensive Plan	CID510169_TownOfAbingdon_CFPF_ComprehensivePlan.pdf	pc
Social vulnerability index score(s) for the project area	Social Vulnerability Index Scores	CID510169_TownOfAbingdon_CFPF_SocialVulnerabilityIndexScores.pdf	pc
Authorization to request funding from the Fund from governing body or chief executive of the local government	Authorization Letter	CID510169_TownOfAbingdon_CFPF_AuthorizationLetter.pdf	pc
Signed pledge agreement from each contributing organization			
Maintenance Plan			

Named

Attachment	Required Description	File Name	Type
<i>Benefit-cost analysis must be submitted with project applications over \$2,000,000. in lieu of using the FEMA benefit-cost analysis, applicants may submit a narrative to describe in detail the cost benefits and value. The narrative must explicitly indicate the benefits of a flood mitigation project and compares those benefits to its cost-effectiveness.</i>			
Benefit Cost Analysis			
Other Relevant Attachments	Town of Abingdon Approved Resilience Plan	CID510169_TownOfAbingdon_CFPF_ResiliencePlan.pdf	pc

Letters of Support

Description	File Name	Type	Size	Upload Date
<i>No files attached.</i>				