

Virginia Community Flood Preparedness Fund Grant Application Charlottesville Resilience Plan



Sunset Avenue Bridge flooding, after peak flow

CITY OF CHARLOTTESVILLE

Department of Public Works
305 4th Street NW • Charlottesville, Virginia 22903
Telephone 434-970-3631





Virginia Community Flood Preparedness Fund Grant Program

Proposal Name: Charlottesville Resilience Plan

Application Contents:

- Appendix A: Application Form for Grant Requests for All Categories
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Appendix A: Application Form for Grant Requests for All Categories

Name of Local Government: City of Charlottesville

Category of Grant Being Applied for (check one):

Capacity Building/Planning Project Study

NFIP/DCR Community Identification Number (CID) 510033

If a state or federally recognized Indian tribe, Name of tribe N/A

Name of Authorized Official: Antony Edwards, CFM

Signature of Authorized Official: *Antony Edwards, CFM*

Mailing Address (1): Department of Public Works

Mailing Address (2): 305 4th Street NW

City: Charlottesville State: VA Zip: 22903

Telephone Number: (434) 970-3992 Cell Phone Number: (434) 981-9293

Email Address: edwardst@charlottesville.gov

Contact Person (If different from authorized official): Andrea Henry, PE

Mailing Address (1): Department of Public Works

Mailing Address (2): 305 4th Street NW

City: Charlottesville State: VA Zip: 22903

Telephone Number: (434) 970-3529 Cell Phone Number: (512) 923-2756

Email Address: henrya@charlottesville.gov

Is the proposal in this application intended to benefit a low-income geographic area as defined in the Part 1 Definitions? Yes No



Capacity Building and Planning Grant Categories (select applicable project):

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.

Location of Project (Include Maps): Charlottesville

NFIP Community Identification Number (CID#): 510033

Is Project Located in an NFIP Participating Community? Yes No

Is Project Located in a Special Flood Hazard Area? Yes (partial) No

Flood Zone(s) (If Applicable): Zone AE (partial Zone A)

Flood Insurance Rate Map Number(s) (If Applicable): 510033-269D/288D/289D

Total Cost of Project: \$125,701

Total Amount Requested \$113,061



Scope of Work Narrative

All applications must include a Scope of Work Narrative that clearly describes the proposed activities, including supporting documentation as necessary and, at a minimum, includes the following.

1. Proposed activities.

City staff and our consultant will develop a Charlottesville Resilience Plan with these sections:

1. Identification of the Resilience Team
2. Inventory of existing plans, programs, and data
3. Inventory of regional assets
4. Identification of hazards and threats and determination of likelihood
5. Assessment of vulnerability of assets
6. Determination of resiliency needs with a focus on nature-based solutions, including:
 - a. Identification of gaps in plans, programs, data, and assets
 - b. Development of programmatic solutions with estimated costs
 - c. Development of capital projects with estimated costs
7. Prioritization of needs
8. Identification of implementation opportunities
9. Development of an implementation strategy
10. Development of a schedule and process to update the Resilience Plan

City staff and our consultant will develop a 3-to-4-month schedule to include:

- Kickoff call with the Resilience Team to discuss the scope and schedule, and invitation of new members for Citywide input on the Resilience Plan. Attendees will develop SMART goals for the project.
- Three workshops to develop plan elements:
 - Workshop 1 will review items 2-3 above and set the stage for items 4-6,
 - Workshop 2 will review items 4-6 and introduce items 7-8, and
 - Workshop 3 will review items 7-8 and work through items 9-10.
- The consultant will provide an interim draft report for review after workshop 2 and request comments be returned in two weeks.
- The consultant will provide a draft Resilience Plan for review after workshop 3 and request comments be returned in two weeks.
- The consultant will provide a final Resilience Plan to the City for submittal to DCR for review and approval

City staff and our consultant will prepare the plan referring to regional, state, and national best practices so that the City's plan will align existing and future regional and state resilience plans.

References include:

- The PREP Tool (2021), developed by the University of Virginia, Old Dominion University, and the College of William and Mary
- The Virginia Coastal Resilience Master Plan Framework (2020)



- The Virginia Coastal Resilience Master Plan (2021)
- The Resilience Metrics Toolkit provided by the National Oceanic and Atmospheric Association
- The Community Resilience Planning Guide from the National Institute of Science and Technology

2. **Assess capacity needs and assets.**

a. *Resource needs identification – financial, human, technical assistance, training.*

The City has the following relevant resources:

- City Council approved a 2025 Vision for Charlottesville to be A Green City which includes preservation of the environment and minimizing stormwater runoff.
- The City established a Stormwater Utility Fee to provide a dedicated and stable source of funding for stormwater management activities.
 - The City has a Municipal Separate Storm Sewer System (MS4) and is covered by the Virginia General Permit for Discharges of Stormwater from Small Municipal Storm Sewer Systems (MS4 Permit).
- A GIS inventory of the City's public and private storm sewer network including pipes, junctions, inlets, and open channels.
- CCTV data for 35% of the City's public storm infrastructure.
- A GIS inventory of over 200 drainage issues in the City, reported via phone calls, the MyCville app, and stormwater program email.
- Staff recently started working internally on an interim stormwater management plan that is similar to Norfolk's City-wide Drainage and Watershed Master Plan (part of their DCR-approved resilience plan) and Henrico County's flood risk scoring method (part of their DCR-approved resilience plan). We are relying on previous iterations of stormwater master planning, citizen drainage complaints, and City staff inspections to identify existing problems.
- Staff is starting to develop a 2D SWMM across all three watersheds within City limits that will add detail to the stormwater management plan. The first round of modeling is being funded by the Community Flood Preparedness Fund.
- Staff are currently updating the Comprehensive Plan and Future Land Use Map.
- The City adopted greenhouse gas emissions reduction goals for 2030 and 2050 and is developing a Climate Action Plan as well as a Climate Adaptation Plan (a climate vulnerability assessment is currently underway). We have identified increasingly intense storms and flooding as one of the three greatest climate change threats.
- Staff are participating in the regional Hazard Mitigation Plan update led by Thomas Jefferson Planning District Commission (TJPDC).
- Staff regularly participate in the TJPDC Chesapeake Bay TMDL Watershed Implementation Program (WIP Phase 3) quarterly meetings and document reviews.
- The City updated the Risk and Resilience Assessment for the Water and Wastewater System and the Utility's Emergency Response Plan in 2021. These documents identify critical assets, threats, and hazards, including flooding. The implementation plan identifies needed mitigation measures.



- The Regional Comprehensive Emergency Management Plan for Utilities (2018) for the City, Albemarle County Service Authority, Rivanna Water and Sewer Authority, and University of Virginia is currently being updated.
- The City's Continuity of Operations Plan includes annexes for Public Works, Utilities, and Procurement and includes risk management.
- The community app "Next Door" has a wealth of information and offers a direct connection to the community. Recent flooding in October 2021 prompted Next Door neighbors to inquire about and catalogue locations in the City where flooding occurred. This data is helpful in identification of flood-prone areas.

The City has identified these resource needs:

- A city-wide Charlottesville Resilience Plan based on regional, state, and national best practices that will align with existing and future regional and state resilience plans. The Plan will include:
 - The state's new rainfall data and best available climate change data
 - Identification of existing flood and stormwater BMPs
 - Updated flood risk assessments including assessments of critical infrastructure in the floodplain and known inland flooding areas (gas, roads, telecom, water, wastewater, electric, etc.)
 - Assessment of social equity and environmental justice
 - Consideration for all parts of the locality (regardless of socioeconomics or race)
 - Identification of locally specific flood prevention and mitigation strategies
 - Development of flood control and resilience projects
 - Identification of nature-based infrastructure options that are feasible in the region
 - A strategy for implementing nature-based infrastructure options
 - Coordination with other local and inter-jurisdictional projects, plans, and activities
 - A timeline for plan implementation
 - Exercises using the flood checklist in the Comprehensive Emergency Management Plan for the region
 - Needs identified in the City's Risk and Resilience Assessment for the Water and Wastewater System's implementation plan, such as a remediation plan for the creek by the Stadium Collector,
 - Facilitation among departments and inclusion of flood resilience in departmental, commercial, and community emergency response plans, continuity of operations plans, and other relevant plans
 - Accurate predictive flood models to identify risk areas and opportunities for partnership with private and regional entities
 - Capacity to address these needs
- b. Plan for developing, increasing, or strengthening knowledge, skills, and abilities of existing or new staff. This may include training of existing staff, hiring personnel, contracting with expert consultants or advisors.*



The City will contract with an expert consultant to facilitate plan development. The consultant will facilitate co-creation of the plan at workshops with the City's Resilience Team staff to increase staff expertise, capabilities, and City-wide knowledge of flood resilience.

The City will also consider coordination with UVA departments and assistance from UVA interns interested in sustainability and flood resilience.

- c. *Resource development strategies. Where capacity is limited by funding, what strategies will be developed to increase resources in the local government? This may include work with non-governmental organizations, or applying for grants, loans, or other funding sources.*

The City is applying for these grant funds to contract with an expert consultant to facilitate plan development. The consultant will co-create the plan at facilitated workshops with the City's Resilience Team staff to increase staff expertise and capabilities. The resulting plan will include an implementation strategy identifying funding opportunities, a schedule for implementing programmatic strategies and infrastructure projects, and potential public and private partnerships. Funding opportunities may include capital funds, stormwater utility fees, loans, and grants including the Community Flood Preparedness Flood Fund, FEMA grants, non-governmental organization options, and others. Partnerships may include UVA professors and intern assistance, retirees or other volunteers in the community, and staff from other local agencies such as area utilities.

Once the plan is complete, the City will submit the plan to DCR for review and approval to be eligible to submit grant applications to fund design and construction projects in future fund rounds.

- d. *Policy management and/or development.*

The relevant sections of the plan and implementation strategy will be shared among City departments and partners for inclusion of flood resilience in departmental, commercial, and community emergency response plans, continuity of operations plans, and other relevant plans.

3. **Goals and objectives.** *Identify and describe the goals and objectives of the project. They should be tied to improving flood protection and prevention in a whole community approach to resilience.*

The goal is to develop a Charlottesville Resilience Plan for improving flood protection and prevention in a whole community approach to resilience. The plan will be developed for approval by DCR in accordance with DCR's requirements listed in the CFPF grant manual. The plan will be developed to align with and be complimentary to relevant City, regional, and state plans.



The objectives are to:

1. Identify the Resilience Team
2. Inventory existing plans, programs, and data
3. Inventory regional assets
4. Identify hazards and threats and determine likelihood
5. Assess vulnerability of assets
6. Determine resiliency needs with a focus on nature-based solutions, including:
 - a. Identify gaps in plans, programs, data, and assets
 - b. Develop programmatic solutions with estimated costs
 - c. Develop capital projects with estimated costs
7. Prioritize needs
8. Identify implementation opportunities
9. Develop an implementation strategy
10. Define plan update process, responsibilities, and schedule

4. *Stakeholder identification, outreach, and education strategies.*

The proposal includes identification of City staff to create a Resilience Team. This team, and other relevant City staff (as needed), will be invited to participate in a project kickoff call, three workshops to develop plan sections, and review of the draft plan and final plan. The Resilience Team will then represent flood resilience in departmental, commercial, and community emergency response plans, continuity of operations plans, and other relevant plans.

The City's Team will involve staff from several departments to ensure stakeholders are invited to provide input and perspective on the Resilience Plan. Through invitation of participants from many departments, the project will also achieve widespread education of City staff regarding flood resilience. Invited participants will include staff from the following departments and their divisions:

- Public Works
- Utilities
- Parks and Recreation
- Transit
- City Assessor
- City Attorney
- Communications
- Economic Development
- Fire
- Housing
- Human Services
- Neighborhood Development Services
- Procurement and Risk Management

5. *Timeline. Implementation plan and timelines for specific elements of completion such as training, certifications, plan development, etc.*



City staff and their consultant will develop a 3-to-4-month schedule (pending grant award) with an anticipated kickoff call in January 2022 and completion of the plan for submittal to DCR for review and approval in April 2022 (**Attachment 1**). The timeline was developed in anticipation of DCR approval of the plan in time to request CFPF grant funding for implementation projects in the second call for proposals in 2022.

6. **Project partners.** *Parties responsible for capacity building and/or plan development process. Mention letters of support from all affected local governments included in the application.*

The City's Resilience Team and consultant will be responsible for preparation of the Charlottesville Resilience Plan. We will coordinate and align efforts with other regional and state initiatives (for example, planning at Albemarle County, TJPDC, DCR, and the Governor's office). The longer-term goal is to more closely coordinate and/or combine the City plan with the County and/or TJPDC plan if those parties are interested.

7. **Performance outputs and measures.** *Describe the expected results and benefits and how success will be measured. Identify "community scale" benefits.*

The project will result in a City-wide Charlottesville Resilience Plan for improving flood protection and prevention in a whole community approach to resilience. Success will be measured through SMART Goals developed during the project kickoff meeting. Goals will include:

- ✓ The Resilience Plan aligns with relevant City, regional, and state plans for community-scale and watershed-wide benefits.
- ✓ The Plan includes an implementation strategy to connect funding to programmatic strategies and infrastructure projects in a consistent and responsible manner.
- ✓ The Plan identifies how to develop resilience in a strategic, sustainable, and community-wide manner.
- ✓ Development of the Plan includes a City-wide approach to reach as many stakeholders as possible.
- ✓ The Plan optimizes return on investment.

8. **Maintaining capacity.** *Plans for maintaining capacity, as necessary, over the long term. Provide evidence of an ability to provide the required matching funds. May want to include a match commitment letter to support this.*

The development of the plan will be completed under this grant. No additional funds will be needed on an on-going basis for planning once the plan is complete. The implementation strategy will be developed to utilize current City staff capacity. City staff will apply for additional funding from this and other grant programs to fund programmatic strategies, infrastructure projects, and eventual Plan updates.



Budget Narrative

Budget Narrative explaining all proposed expenditures. A budget narrative is applicable to requests from any category of grants in this manual. The following items must be included in the Budget Narrative:

1. **Estimated total project cost:** *This amount must reflect the total cost of bringing the project to completion. Estimates for all work to be completed by third parties (engineers, contractors, etc.) on the specified project should be included.*

The total project cost is \$125,701 (**Attachment 1**).

The total project cost includes \$113,061 for contractual services based on 669 hours at an average hourly rate of \$169. This is the facilitation rate already contracted between the City and the consultant.

The total project cost includes \$12,640 for a portion of staff salaries based on 316 hours at an average hourly rate of \$40. These hours will be contributed to engaging eight City staff responsible for water resources protection and management (including data management, customer service, maintenance and operations, capital improvement programs, and regulatory compliance) and sustainability programs (including climate protection). Additional staff involvement may be obtained through participation of multiple invited departments in the planning workshops.

2. **Amount of funds requested from the Fund:** *This is the total amount of any grant assistance sought from the Fund. Include a detailed breakdown of how this funding is proposed to be allocated. At a minimum this should include a breakdown of salaries, fringe benefits, travel, equipment, supplies, construction, contracts, and other direct costs. Please refer to the match requirements in Part II of this manual. For local governments designated as low-income geographic areas, 100 percent of the estimated total project costs should be included.*

The amount requested from the fund is the \$113,061 for contractual services. This is 90% of the total project cost.

3. **Amount of cash funds available:** *This amount, when combined with the amount of funding requested from the Fund, must reflect the total estimated project cost to demonstrate that all necessary funding has been secured to complete the project. Include a description of the source of these funds and evidence of the applicant's ability to obtain these funds to complete the project.*

The remainder of the total project cost is \$12,640. This is 10% of the total project costs. This match is provided as a portion of staff salaries engaged in the project.



4. *Authorization to request for funding: Local governments seeking funding shall also attach signed documentation authorizing the request for funding.*

The authorization is attached (**Attachment 2**).

Supporting Documentation

1. A link to or a copy of the approved resilience plan

N/A

2. Evidence of an ability to provide the required matching funds

The evidence is attached (**Attachment 3**).

3. Map of social vulnerability index score(s) from ADAPT VA

The map is attached (**Attachment 4**).

- High: Census Tracts 2.02 and 4.01
- Moderate: Census Tracts 2.01, 6, and 8
- Low: remainder of City

4. Low-income geographic areas

- City-wide median household income = \$59,471
 - <https://datausa.io/profile/geo/charlottesville-va/>
- State-wide median household income = \$74,222
 - <https://www.census.gov/quickfacts/fact/table/VA/AFN120212>
- $\$59,471 / \$74,222 = 80\%$

5. A link to or a copy of the current floodplain ordinance

<https://www.charlottesville.gov/625/Flood-Plain-Floodway-Information>
<https://www.charlottesville.gov/DocumentCenter/View/1380/City-Ordinance-34-240-PDF>

6. A link to or a copy of the current hazard mitigation plan

<https://tipdc.org/our-work/hazard-mitigation/>
<https://tipdc.org/wp-content/uploads/pdf/Environment/Hazard-Mitigation/Hazard-Mitigation-Plan-2018.pdf>

7. A link to or a copy of the current comprehensive plan

<https://www.charlottesville.gov/1111/Comprehensive-Plan>
<https://www.charlottesville.gov/DocumentCenter/View/477/2013-Comprehensive-Plan-PDF?bidId=>



Appendix D: Scoring Criteria for Capacity Building & Planning

Applicant Name:	Charlottesville	
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	Eligible for consideration	X
No	Not eligible for consideration	
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	
No	Eligible for consideration for studies, capacity building, and planning only	X
3. If the applicant is <u>not</u> a town, city, or county, are letters of support from all affected local governments included in this application?		
Yes	Eligible for consideration	N/A
No	Not eligible for consideration	
4. Has this or any portion of this project been included in any application or program previously funded by the Department?		
Yes	Not eligible for consideration	
No	Eligible for consideration	X
5. Has the applicant provided evidence of an ability to provide the required matching funds?		
Yes	Eligible for consideration	X
No	Not eligible for consideration	
N/A	Match not required	
Capacity Building and Planning Eligible for Consideration		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



Applicant Name:	Charlottesville		
Scoring Information			
Criterion	Point Value	Points Awarded	
6. Eligible Capacity Building and Planning Activities (Select all that apply)			
Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans.	55	55	
Development of a new resilience plan.	55	55	
Resource assessments, planning, strategies, and development.	45	45	
Policy management and/or development.	40	40	
Stakeholder engagement and strategies.	25	25	
Goal planning, implementation, and evaluation.	25	25	
Long term maintenance strategy.	25	25	
Other proposals that will significantly improve protection from flooding on a statewide or regional basis.	15	15	
7. Is the area within the local government to which the grant is targeted socially vulnerable? (Based on ADAPT VA's Social Vulnerability Index Score.)			
Very High Social Vulnerability (More than 1.5)	15	0	
High Social Vulnerability (1.0 to 1.5)	12	12	
Moderate Social Vulnerability (0.0 to 1.0)	8	8	
Low Social Vulnerability (-1.0 to 0.0)	0	0	
Very Low Social Vulnerability (Less than -1.0)	0	0	
8. Is the proposed activity part of an effort to join or remedy the community's probation or suspension from the NFIP?			
Yes	10	0	
No	0	0	
9. Is the proposed project in a low-income geographic area as defined in this manual?			
Yes	10	10	
No	0	0	
10. Does this project provide "community scale" benefits?			
Yes	20	20	
No	0	0	
Total Points			335



Appendix E: Checklist All Categories

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



Attachment 1

Budget and Schedule

Attachment 1. Budget and Schedule

		Launch! Consulting Hours			City Hours
	Due date	Facilitator / Subject Matter Expert	Master Facilitator	Facilitator / PM	Staff
Submit grant application	11/5/2021				
Receive notice of approval	12/3/2021				
Receive funds	12/31/2021				
Define Resilience team	1/7/2022	3	3	3	1
Kickoff call	1/7/2022	4	4	4	1
Review existing plans, programs, and data	1/14/2022	20	2	10	1
Inventory and assess condition of regional assets	1/21/2022	40	40	40	8
Plan and Facilitate Workshop 1	1/21/2022	8	8	12	3
Identify hazards/threats and determine likelihood	1/28/2022	20	8	10	1
Assess vulnerability of assets	2/4/2022	20	8	10	1
Determine resiliency needs	2/11/2022	40	8	10	1
Plan and Facilitate Workshop 2	2/11/2022	8	8	12	3
Pre-Draft plan to City for review	2/18/2022	40	6	16	0
Prioritize needs	2/25/2022	24	4	8	1
Identify implementation opportunities	3/4/2022	16	4	8	1
City provides comments on Pre-Draft plan	3/4/2022	2	2	2	6
Develop implementation strategy	3/11/2022	16	8	8	1
Define plan update schedule / process	3/11/2022	8	2	2	0.5
Plan and Facilitate Workshop 3	3/18/2022	8	8	8	3
Draft plan to City for review	3/25/2022	40	4	12	0
City provides comments on Draft plan	4/8/2022	2	2	2	6
Final Plan to City	4/15/2022	32	4	6	0
City submits plan to DCR for approval	4/18/2022	2	0	0	1
Total (hrs)		353	133	183	39.5
Rate (\$/hr)		\$ 169	\$ 169	\$ 169	\$ 40
Total per person		\$ 59,657	\$ 22,477	\$ 30,927	\$ 1,580
Number of people		1	1	1	8
Total		\$ 59,657	\$ 22,477	\$ 30,927	\$ 12,640
Grand Total		\$ 125,701			
City (Match)		\$ 12,640			10% (>=10% required)
Consultant (Flood Fund)		\$ 113,061			90% (<=90% required)



Attachment 2

Authorization to Request Funding

CITY OF CHARLOTTESVILLE

"To be One Community Filled with Opportunity"

Office of the City Manager

P.O. Box 911 • Charlottesville, Virginia 22902

Telephone 434-970-3101

Fax 434-970-3890

www.charlottesville.gov



November 4, 2021

Virginia Department of Conservation and Recreation
Attention: Virginia Community Flood Preparedness Fund
Division of Dam Safety and Floodplain Management
600 East Main Street, 24th Floor
Richmond, Virginia 23219

To Whom it May Concern,

The City of Charlottesville is excited for the opportunity to submit this application for the second round of the Community Flood Preparedness Fund grant awards. We have been strong proponents of the Commonwealth of Virginia joining the Regional Greenhouse Gas Initiative and are pleased that funds are now being made available to support our efforts to mitigate and protect against flooding in neighborhoods across our entire community.

The enclosed grant application is to assist the City with the development of a Flood Resiliency Plan that will identify vulnerabilities to flooding in our community and propose mitigation implementation techniques that highlight nature-based solutions. The total estimated project budget is \$125,701. Per the grant application process, I hereby confirm that the City has identified the necessary resources for the required 10% match of \$12,640, which will be composed entirely of staff time. Upon Notice of Award of the grant, a resolution will be presented to City Council of Charlottesville for appropriation of the grant funds and the identified matching funds.

We look forward to the VA Department of Conservation and Recreation's support in building our flood resilience plan so we can serve and protect our community in a strategic, equitable, and proactive manner.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Sam Sanders', is written over a light blue horizontal line.

Sam Sanders
Deputy City Manager
City of Charlottesville, VA



Attachment 3

Evidence of Ability to Provide Required Matching Funds

CFPF Grant Application - Statement of Availability

Henry, Andrea E <henrya@charlottesville.gov>

Fri 11/5/2021 8:48 AM

To: Yang, Carol <yangc@charlottesville.gov>

I have reviewed the grant application for the development of the City of Charlottesville Resilience Plan and plan to contribute to the staff hours required for the 10% match.

Andrea Henry, PE

Water Resources Protection Administrator

Public Works Department

City of Charlottesville

(434) 970 - 3529

bostroma@charlottesville.gov



Henry, Andrea E

From: Yang, Carol
Sent: Thursday, November 4, 2021 10:04 AM
To: Henry, Andrea E
Subject: Re: Statement of Availability for CFPF grant

I have reviewed the grant application for the development of the City of Charlottesville Resilience Plan and have the availability to contribute to the staff hours required for the 10% match.

Carol Yang
Stormwater Technician | Dept of Public Works
yangc@charlottesville.gov
Office: 434-970-3962
Work cell: 434-872-3844

RE: Statement of Availability for CFPF grant - due tomorrow!



Dawson, Jack A
To Henry, Andrea E

Reply	Reply All	Forward	
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Thu 11/4/2021 10:09 AM

I have reviewed the grant application for the development of the City of Charlottesville Resilience Plan and have the availability to contribute to the staff hours required for the 10% match.

Jack Dawson, PE

City Engineer
City of Charlottesville
Public Works Engineering Division
City Hall - 610 East Market Street
PO Box 911
Charlottesville, VA 22902
(Direct) 434-970-3968 (Fax) 434-970-3359
dawsonj@charlottesville.gov <<mailto:dawsonj@charlottesville.gov>>

Henry, Andrea E

From: Mcllwee, Jason
Sent: Thursday, November 4, 2021 10:27 AM
To: Henry, Andrea E
Subject: Statement of Availability for CFPF grant

Andrea,

I have reviewed the grant application for the development of the City of Charlottesville Resilience Plan and have the availability to contribute to the staff hours required for the 10% match.

Thanks,

Jason Mcllwee, P.E.
Utilities Engineering Manager
City of Charlottesville- Department of Utilities
305 4th St. NW
Charlottesville, VA 22903
(434) 970-3826



***New email address: mcilwee@charlottesville.gov

Henry, Andrea E

From: McNannay, Kathryn
Sent: Thursday, November 4, 2021 10:28 AM
To: Henry, Andrea E
Cc: McIlwee, Jason
Subject: Grant

Hi Andrea-

I have reviewed the grant application for the development of the City of Charlottesville Resilience Plan and have the availability to contribute to the staff hours required for the 10% match.

Kathryn McNannay
Management Analyst II
City of Charlottesville
Department of Utilities
305 4th St NW
Charlottesville, VA 22903
(Phone) 434-970-3810
(Fax) 434-970-3817

Henry, Andrea E

From: Riddervold, Kristel
Sent: Thursday, November 4, 2021 10:18 AM
To: Henry, Andrea E
Subject: CFPF Grant Application - Charlottesville, VA

I have reviewed the grant application for the development of the City of Charlottesville Resilience Plan and have the availability to contribute to the staff hours required for the 10% match.

Kristel Riddervold
Environmental Sustainability and Facilities Development Manager



305 4th Street NW, Charlottesville VA 22903
434.970.3631
riddervold@charlottesville.gov
FB: [CvilleGreenCity](#)

Henry, Andrea E

From: Edwards, Tony
Sent: Thursday, November 4, 2021 10:56 AM
To: Henry, Andrea E
Subject: CFPF grant application #2

Andrea,

I have reviewed the grant application for the development of the City of Charlottesville Resilience Plan and have the availability to contribute to the staff hours required for the 10% match.

Tony Edwards, CFM
Development Services Manager

RE: Statement of Availability for CFPF grant - due tomorrow! - Message (HTML)

File Message Help Tell me what you want to do

Ignore Delete Archive Reply Reply All Forward Meeting IM More

Climate Planning To Manager
Team Email Done
Reply & Delete Create New





Move OneNote Actions

Assign Policy Mark Unread Categorize Follow Up

Translate Find Related Select

Read Aloud Zoom Insights Phish Alert Report

RE: Statement of Availability for CFPF grant - due tomorrow!

 Garber, Victor
To  Henry, Andrea E
Cc  Sanders, Samuel;  Gensic, Chris

 Reply  Reply All  Forward 

Thu 11/4/2021 3:21 PM

Andrea,
Please see below and let me know if you need any additional assistance!
Thanks Vic

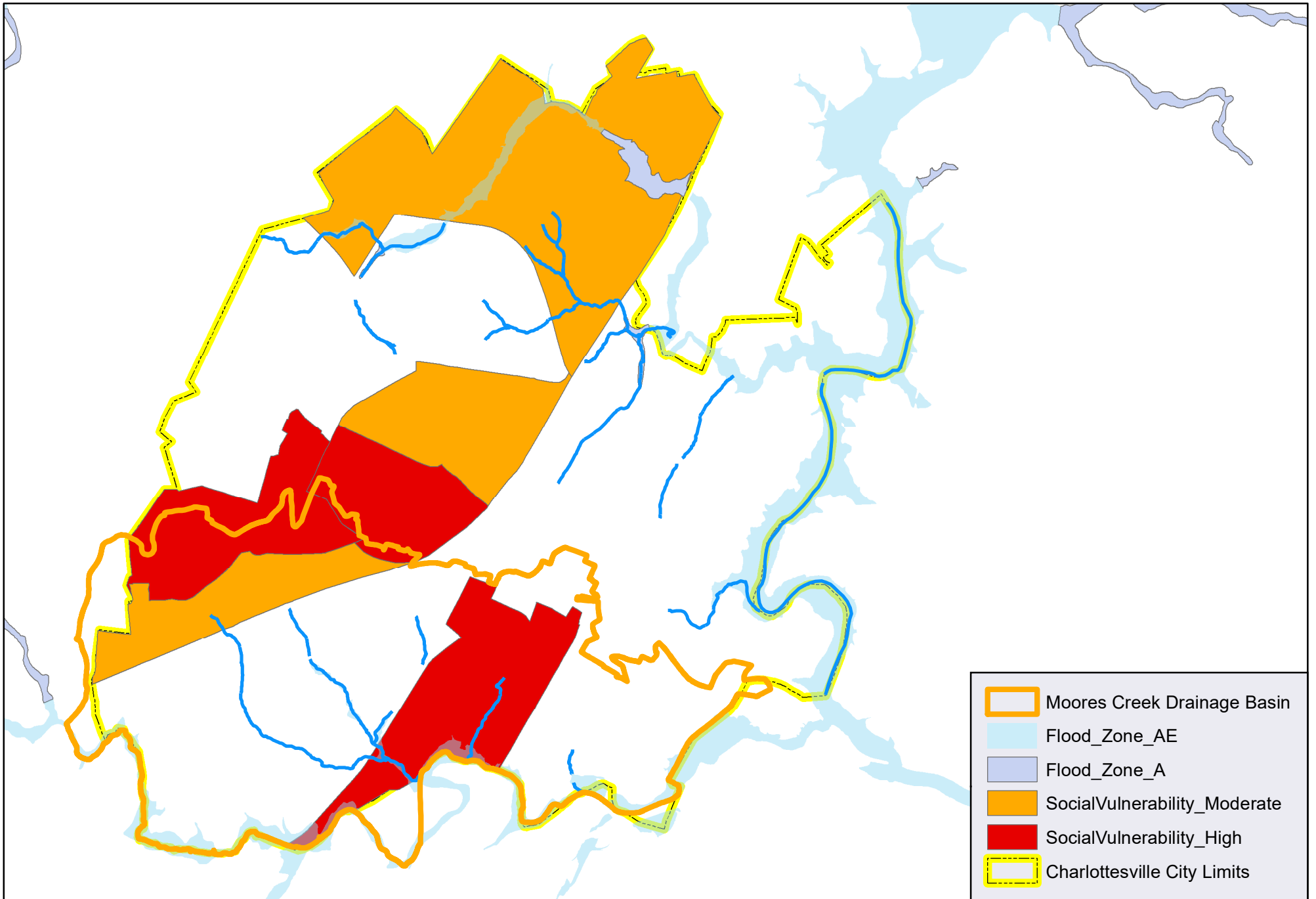
I have reviewed the grant application for the development of the City of Charlottesville Resilience Plan and the Parks and Recreation Department will plan to contribute to the staff hours required for the 10% match.

*Vic Garber, CPRP
City of Charlottesville, VA
Acting Director, Parks and Recreation Department
434-970-3354*



Attachment 4

Charlottesville Social Vulnerability Index Location Map



Date: 9/2/2021

Charlottesville Social Vulnerability Index



The geographic data layers produced by the City of Charlottesville are provided as a public resource. The City makes no warranties, expressed or implied, concerning the accuracy, completeness or suitability of this data, and it should not be construed or used as a legal description. The information displayed is a compilation of records, information, and data obtained from various sources, and the City is not responsible for its accuracy or how current it may be. Every reasonable effort is made to ensure the accuracy and completeness of the data. Pursuant to Section 54.1-402 of the Code of any determination of topography or contours, or any depiction of physical improvements, property lines or boundaries is for general information only and shall not be used for the design, modification or construction of improvements to real property or for flood plain determination.