

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:

Henrico County

Category of Grant Being Applied for (check one):

Capacity Building/Planning

Project

Study

NFIP/DCR Community Identification Number (CID) 510077

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

Name of Authorized Official: Bentley Chan, PE
Director, Henrico DPU

Signature of Authorized Official: 

Mailing Address (1): 4305 E Parham Road

Mailing Address (2): _____

City: Henrico State: Virginia Zip: 23228

Telephone Number: (804) 501-4280 Cell Phone Number: () N/A

Email Address: cha70@henrico.us

Allen Shue, PE, CFM
Contact Person (If different from authorized official): Associate, Greeley and Hansen

Mailing Address (1): 9020 Stony Point Parkway

Mailing Address (2): Suite 475

City: Richmond **State:** VA **Zip:** 23235

Telephone Number: (804) 204-2425 **Cell Phone Number:** (914) 275-2554

Email Address: ashue@greeley-hansen.com

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

Categories (select applicable project):

Project 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.
- 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 installation, to notify residents of potential emergency flooding events.

Study 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.
- 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.
- 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.

Capacity 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.

Title of Work: "Gambles Mill Pump Station - Flood Mitigation and Resiliency Implementation"

Location of Project (Include Maps): Tuckahoe Neighborhood, Henrico County

NFIP Community Identification Number (CID#):(See appendix F 510077)

Is Project Located in an NFIP Participating Community? Yes No

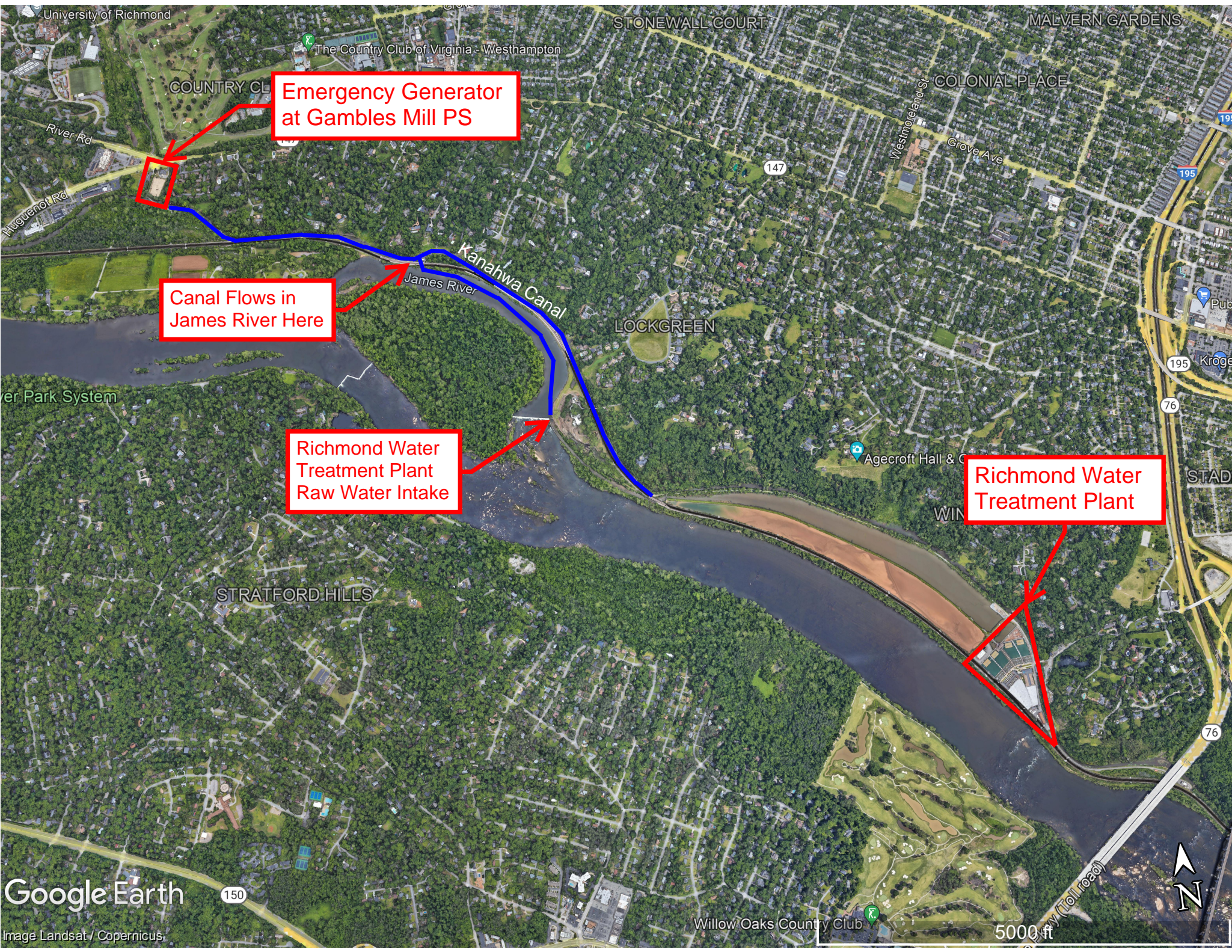
Is Project Located in a Special Flood Hazard Area? Yes No

Flood Zone(s) (If Applicable): Effective: Zone X
Preliminary: Zone AE

Flood Insurance Rate Map Number(s) (If Applicable): Effective: 51087C0110C
Preliminary: 51087C0108D

Total Cost of Project: Phase A: \$1,740,488

Total Amount Requested \$870,244



**Emergency Generator
at Gambles Mill PS**

**Canal Flows in
James River Here**

**Richmond Water
Treatment Plant
Raw Water Intake**

**Richmond Water
Treatment Plant**



NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevation (BFEs)** and/or **Floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevation (CBFEs) shown on this map apply only landward of 0' North American Vertical Datum (NAVD). Users of this FIRM should be aware that coastal flood elevations may also be provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this community. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction.

The **projection** used in the preparation of this map is Universal Transverse Mercator (UTM) zone 18. The **horizontal datum** is NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit their website at www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the Henrico County GIS Department.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment revising portions of this panel, and digital versions of this **PANEL** may be available. Contact the **FEMA Map Service Center** at the following phone numbers and internet address for information on all related products available from FEMA:

Phone: 800-358-9616
FAX: 800-358-9620
<http://msc.fema.gov>

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfip/>

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report may reflect stream channel distances that differ from what is shown on this map.

CURRENT EFFECTIVE FIRM

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AV, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

- ZONE A**
No base flood elevations determined.
- ZONE AE**
Base flood elevations determined.
- ZONE AH**
Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AO**
Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR**
Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently abandoned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood event.
- ZONE A99**
Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no base flood elevations determined.
- ZONE V**
Coastal flood zone with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE**
Coastal flood zone with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X
Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D
Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- Floodplain boundary
- Floodway boundary
- Zone boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*
- *Referenced to the North American Vertical Datum of 1988
- A ○ A Cross Section Line
- 23 ○ 23 Transect Line
- 97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4276000M 1000-meter Universal Transverse Mercator grid values, zone 18
- 60000-foot grid ticks
- DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel).
- M1.5 River Mile

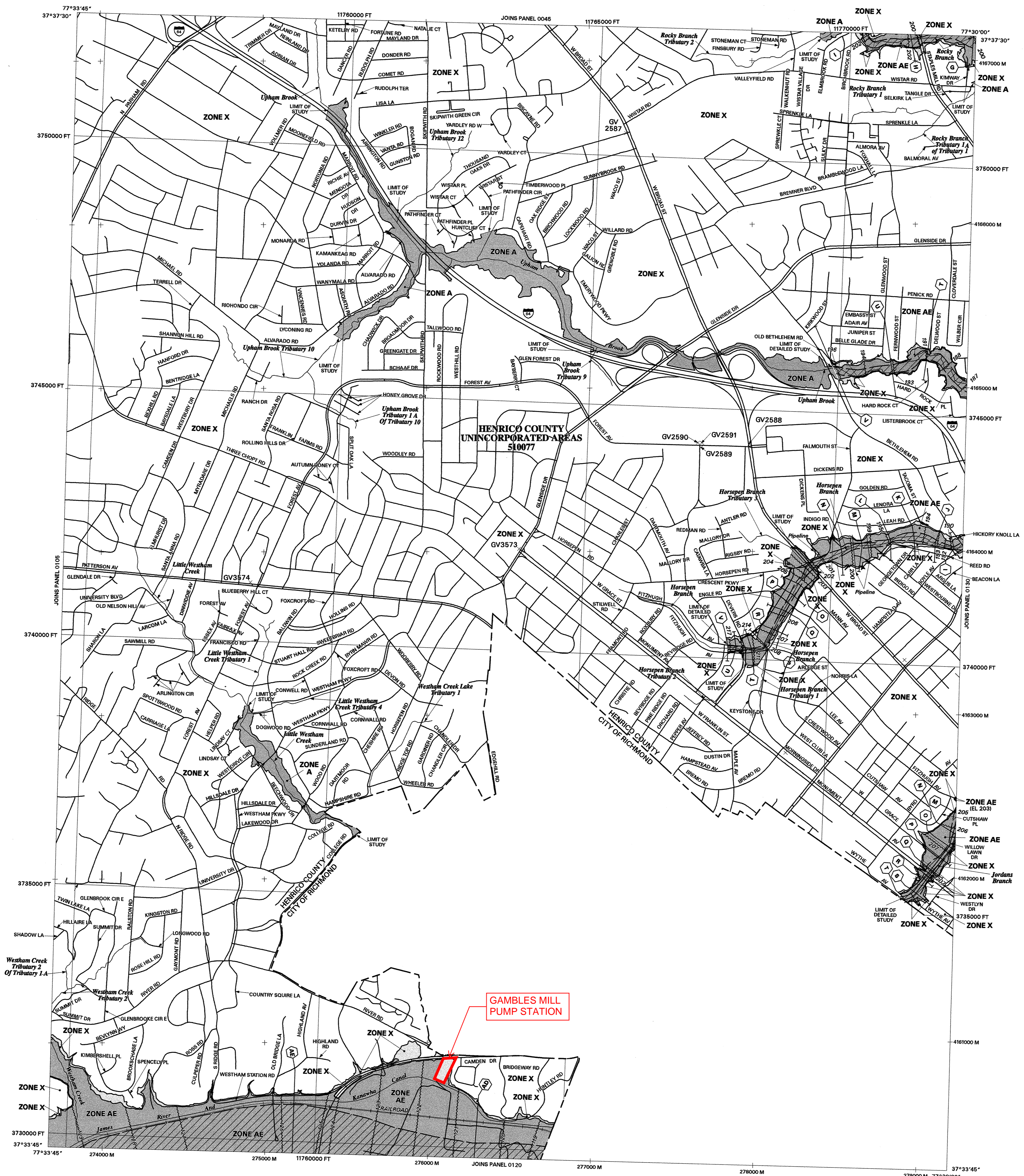
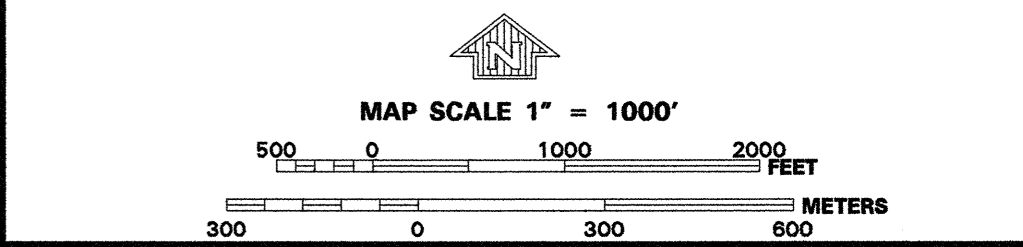
MAP REPOSITORY
Refer to Repository Listing on Index Map

EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP
DECEMBER 18, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at (800) 638-6620.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0110C

FIRM
FLOOD INSURANCE RATE MAP
HENRICO COUNTY,
VIRGINIA
AND INCORPORATED AREAS

PANEL 110 OF 300
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HENRICO COUNTY, UNINCORPORATED AREAS	610077	0110	C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
51087C0110C

EFFECTIVE DATE:
DECEMBER 18, 2007

Federal Emergency Management Agency

National Flood Hazard Layer FIRMette



77°32'35"W 37°34'8"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- | | |
|------------------------------------|---|
| SPECIAL FLOOD HAZARD AREAS | Without Base Flood Elevation (BFE)
Zone A, V, A99 |
| | With BFE or Depth Zone AE, AO, AH, VE, AR |
| | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
| | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | Area with Reduced Flood Risk due to Levee. See Notes. Zone X |
| | Area with Flood Risk due to Levee Zone D |
| OTHER AREAS | NO SCREEN Area of Minimal Flood Hazard Zone X |
| | Effective LOMRs |
| | Area of Undetermined Flood Hazard Zone D |
| GENERAL STRUCTURES | Channel, Culvert, or Storm Sewer |
| | Levee, Dike, or Floodwall |
| OTHER FEATURES | Cross Sections with 1% Annual Chance Water Surface Elevation |
| | Coastal Transect |
| | Base Flood Elevation Line (BFE) |
| | Limit of Study |
| | Jurisdiction Boundary |
| | Coastal Transect Baseline |
| | Profile Baseline |
| | Hydrographic Feature |
| MAP PANELS | Digital Data Available |
| | No Digital Data Available |
| | Unmapped |
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/23/2021 at 5:06 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

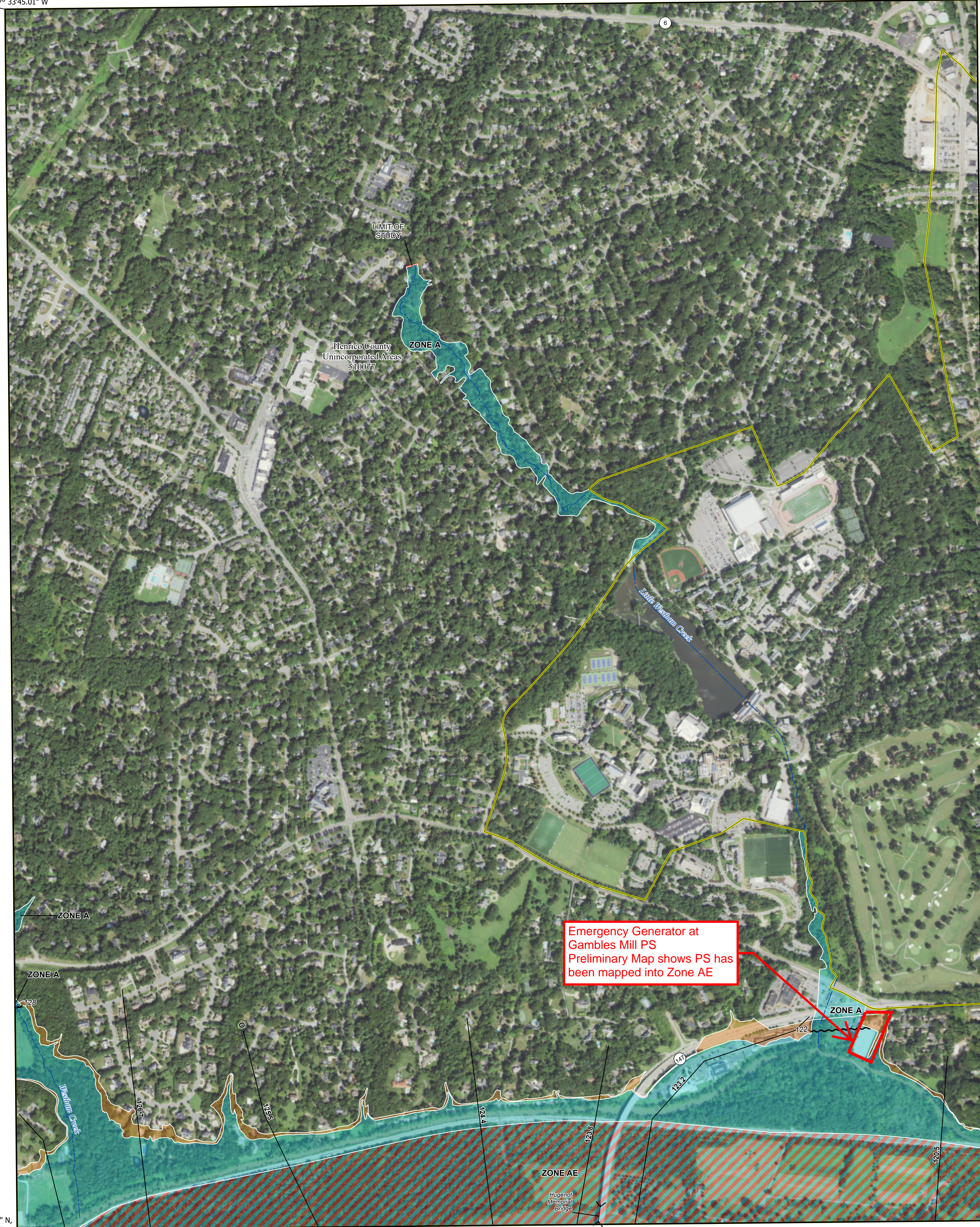
0 250 500 1,000 1,500 2,000 Feet 1:6,000

77°31'58"W 37°33'40"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

37° 35'37.56" N,
77° 33'45.01" W

37° 35'37.56" N,
77° 31'52.51" W



Emergency Generator at Gables Mill PS
Preliminary Map shows PS has been mapped into Zone AE

37° 33'45.06" N,
77° 33'45.01" W

37° 33'45.06" N,
77° 31'52.51" W

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTPS://MSC.FEMA.GOV](https://MSC.FEMA.GOV)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, AE, AR
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
OTHER AREAS		Area with Reduced Flood Risk due to Levee See Notes Zone X
		Area with Flood Risk due to Levee Zone D
GENERAL STRUCTURES		Area of Minimal Flood Hazard Zone X
		Area of Undetermined Flood Hazard Zone D
OTHER FEATURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
OTHER FEATURES		Coastal Transect
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available effective flood hazard information for your community, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Mapping and Insurance Information Exchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be downloaded from the website. Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be acquired directly from the Flood Map Service Center at the website listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

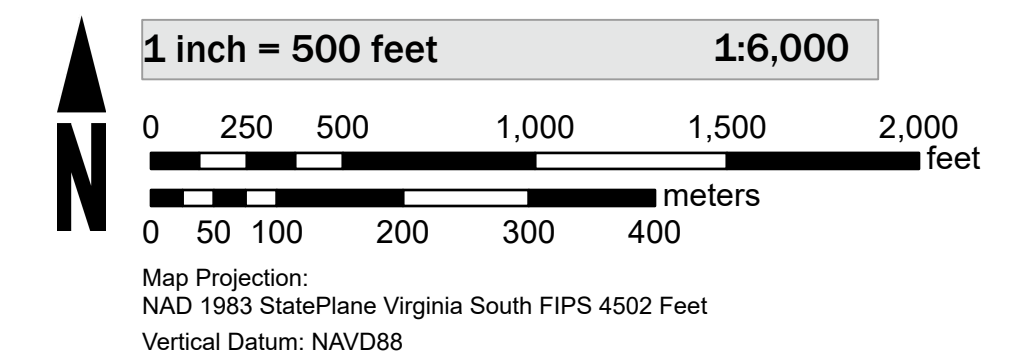
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Basemap information shown on this FIRM was provided in digital format by the United States Geological Survey (USGS). The basemap shown is the USGS National Map: Orthoimagery. Last refreshed October, 2020.

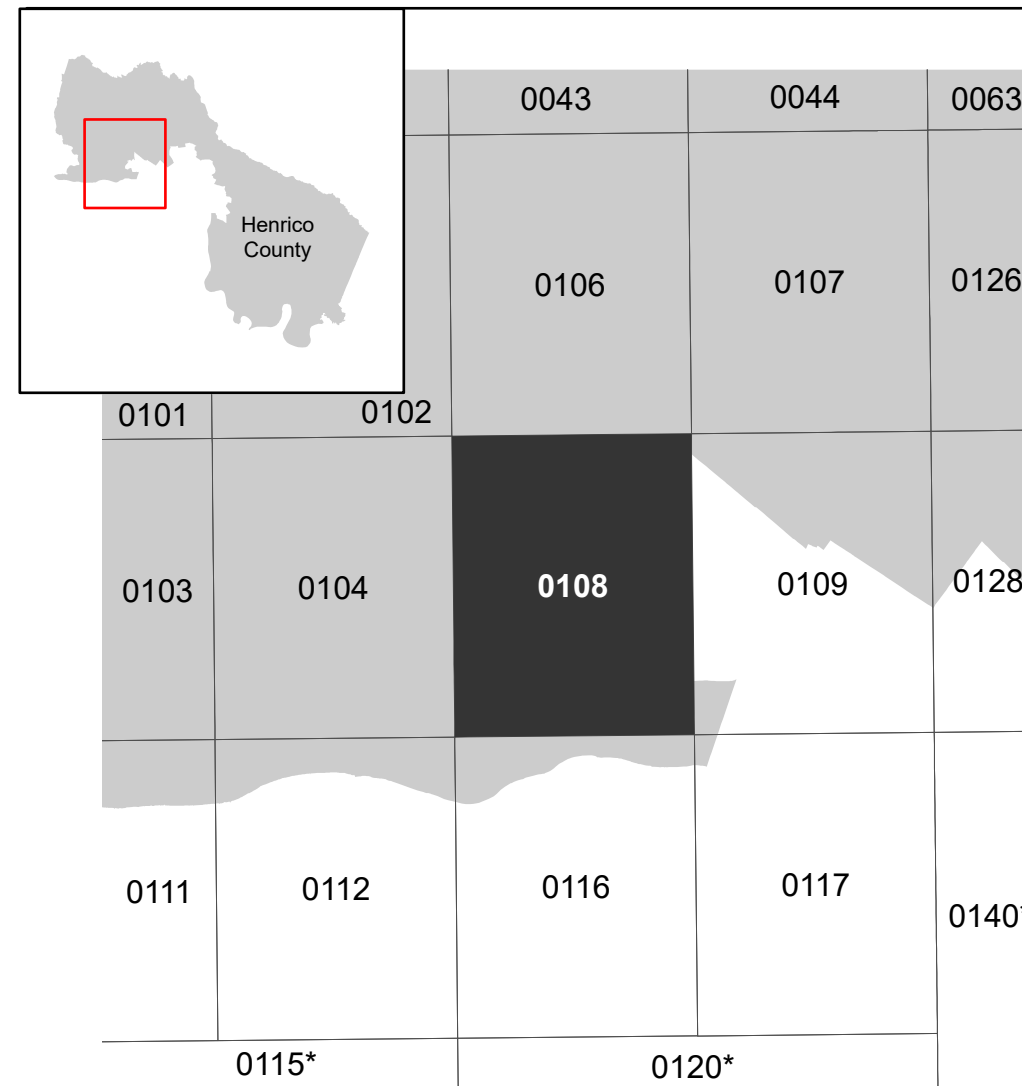
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM Issue Date or Effective Date.

Note: Some Special Flood Hazard Areas with elevations may not appear with elevation labels if the Base Flood Elevation or Cross-section line which communicates the elevation for the location appears on the adjacent panel. Please see the Panel Locator Diagram on this map panel to determine the adjacent panel and find the elevation feature there, or alternatively use the Flood Insurance Study report for detailed elevations by flood source.

SCALE



PANEL LOCATOR



FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

HENRICO COUNTY
VIRGINIA
ALL JURISDICTIONS

Panel Contains:
COMMUNITY: HENRICO COUNTY UNINCORPORATED AREAS
NUMBER: 510077
PANEL: 0108
SUFFIX: D

MAP NUMBER: 51087C0108D
EFFECTIVE DATE: 11/12/2021
Prelim Issue Date: 11/12/2021

*PANEL NOT PRINTED

NOTES TO USERS

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To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 18. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

Base map data was obtained from the City of Richmond including transportation, hydrography, and political lines. Basemapping was originally interpreted from the orthophotography flown in March of 1999. Additional information has been derived from other sources.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map showing the layout of map panels for this jurisdiction.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov/>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/>.

Accredited Levee Notes to Users: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA website at <http://www.fema.gov/business/nfip/index.shtm>.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

Floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
Base Flood Elevation line and value; elevation in feet* (EL 987)
Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

(A) (A) Cross section line
(2) (2) Transect line
97°0'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
42°75'00"N 1000-meter Universal Transverse Mercator grid values, zone 18
6000000 FT 5000-foot grid ticks: Virginia State Plane coordinate system, south zone (FIPSZONE 4502), Lambert Conformal Conic
DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5 River Mile

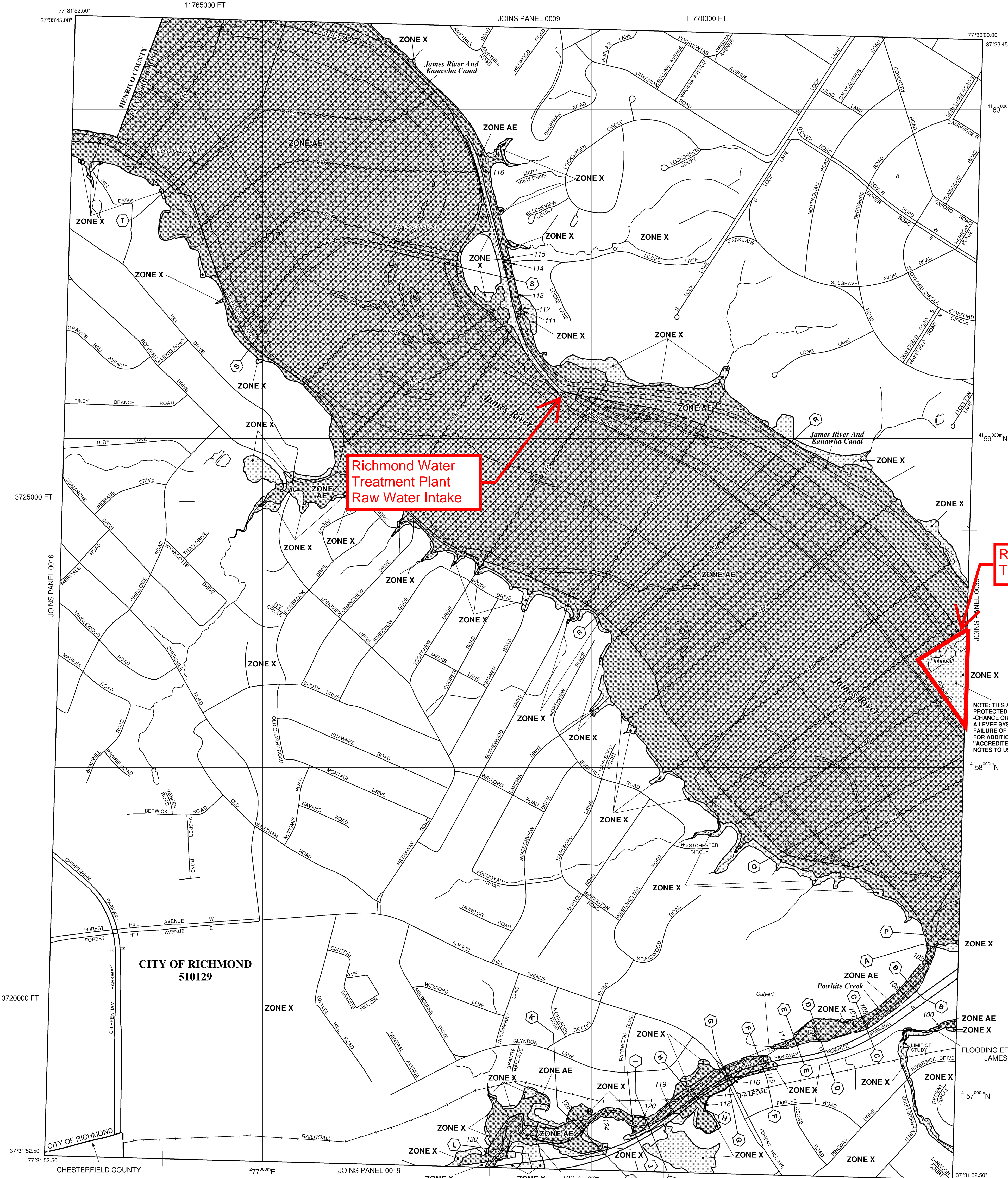
MAP REPOSITORY
City of Richmond Department of Public Works, 900 East Broad Street, Room 704, Richmond, Virginia 23219 (Maps available for reference only, not for distribution.)

INITIAL NFIP MAP DATE December 6, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS September 19, 1975
FLOOD INSURANCE RATE MAP EFFECTIVE June 15, 1979
FLOOD INSURANCE RATE MAP REVISIONS July 20, 1998

April 2, 2009 - to change Special Flood Hazard Areas to add Base Flood Elevations, to update roads and road names, to incorporate previously issued Letters of Map Amendment, to add Special Flood Hazard Areas, to reflect updated topographic information, and to update corporate limits.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS



NOTE: THIS AREA IS SHOWN AS BEING PROTECTED FROM THE 1-PERCENT ANNUAL CHANCE OR GREATER FLOOD HAZARD BY A LEVEE SYSTEM. OVERTOPPING OR FAILURE OF ANY LEVEE SYSTEM IS POSSIBLE. FOR ADDITIONAL INFORMATION, SEE THE "ACCREDITED LEVEE NOTE" IN NOTES TO USERS.

NFIP PANEL 0017D

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
RICHMOND,
VIRGINIA
INDEPENDENT CITY

PANEL 17 OF 83
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER PANEL SUFIX
RICHMOND, CITY OF 510129 0017 D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
5101290017D
MAP REVISED
APRIL 2, 2009

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 18. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #5202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

Base map data was obtained from the City of Richmond including transportation, hydrography, and political lines. Basemapping was originally interpreted from the orthophotography flown in March of 1999. Additional information has been derived from other sources.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

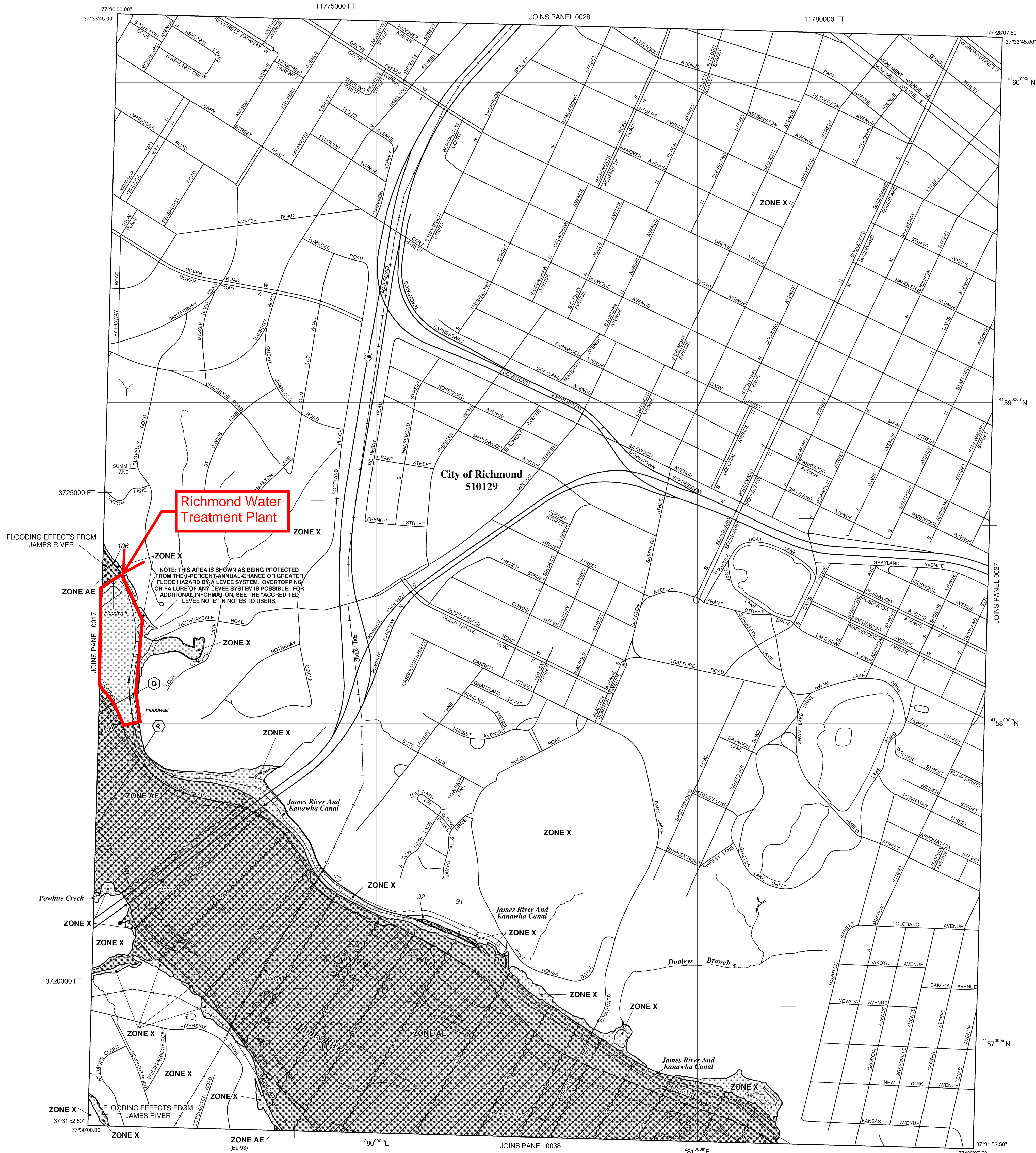
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map showing the layout of map panels for this jurisdiction.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov/>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/>.

Accredited Levee Notes to Users: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA website at <http://www.fema.gov/business/nfip/index.shtm>.

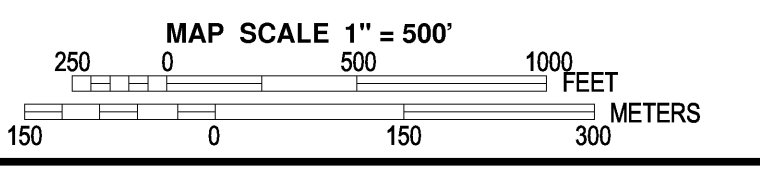


Richmond Water Treatment Plant

NOTE: THIS AREA IS SHOWN AS BEING PROTECTED FROM THE 1% PERCENT ANNUAL CHANCE OR GREATER FLOOD HAZARD BY A LEVEE SYSTEM. OVERTOPPING OR FAILURE OF ANY LEVEE SYSTEM IS POSSIBLE. FOR ADDITIONAL INFORMATION, SEE THE "ACCREDITED LEVEE NOTE" IN NOTES TO USERS.

LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
- OTHERWISE PROTECTED AREAS (OPAs)
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- Floodplain boundary
- Floodway boundary
- Zone boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet* (EL 987)
- Base Flood Elevation value where uniform within zone; elevation in feet*
- * Referenced to the North American Vertical Datum of 1988 (NAVD 88)
- Cross section line
- Transsect line
- 97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 42°50'00"N 1000-meter Universal Transverse Mercator grid values, zone 18
- 6000000 FT 5000-foot grid ticks; Virginia State Plane coordinate system, south zone (FIPSZONE 4502); Lambert Conformal Conic
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile
- MAP REPOSITORY
- City Of Richmond Department Of Public Works, 300 East Broad Street, Room 704, Richmond, Virginia 23219 (Maps available for reference only, not for distribution.)
- INITIAL NFIP MAP DATE December 6, 1974
- FLOOD HAZARD BOUNDARY MAP REVISIONS September 19, 1975
- FLOOD INSURANCE RATE MAP EFFECTIVE June 15, 1979
- FLOOD INSURANCE RATE MAP REVISIONS July 20, 1998
- April 2, 2009 - to change Special Flood Hazard Areas - to add Base Flood Elevations, to update roads and road names, to incorporate previously issued Letters of Map Amendment, to add Special Flood Hazard Areas, to reflect updated topographic information, and to update corporate limits.
- To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-636-6620.



NFIP PANEL 0036D

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
RICHMOND,
VIRGINIA
INDEPENDENT CITY

PANEL 36 OF 83
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
RICHMOND, CITY OF 51029 0036 D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER 5101290036D
MAP REVISED APRIL 2, 2009

Federal Emergency Management Agency

B. Scope of Work Narrative – Flood Prevention and Protection Projects

Project Information and Description:

The Henrico County Department of Public Utilities (DPU) is responsible for providing water, wastewater, and solid waste services throughout the County, portions of the City of Richmond, and neighboring Goochland County. The Gambles Mill Pump Station (Gambles Mill) is a critical component of the County's wastewater conveyance and treatment system; it is also considered a Category III Critical Facility by FEMA (*FEMA 543 Design Guide for Improving Critical Facility Safety from Flooding and High Winds*). Located at 6173 River Road in Richmond, Virginia, the pump station accepts a peak flow of 28 mgd per day from five drainage subbasins and conveys flow to the County's Water Reclamation Facility (WRF).

Gambles Mill currently has two electrical feeds powered from separate Dominion Energy grids. Historical outage data available from the station indicates that simultaneous power loss has occurred on eight separate occasions since 2010. When both electrical feeds are down and the station does not have power, untreated wastewater is discharged into the Kanawha Canal and the James River both of which are Resource Protection Areas as established by the Chesapeake Bay Preservation Act. Untreated wastewater directly impacts the environmental quality of the receiving waters but also puts the City of Richmond's potable water supply at risk, as the Kanawha Canal connects to the raw water intake for the City of Richmond at the City's Water Treatment Plant which serves more than 200,000 citizens. Although the Gambles Mill Pump Station is not located in a qualified opportunity zone and is in an area with a very low social vulnerability index score, the risk that station power loss has on Richmond's potable water supply affects neighborhoods that are qualified opportunity zones and range from very low social vulnerability to very high social vulnerability in Richmond. The risk of significant overflows of untreated wastewater and subsequent environmental and public health impacts is too great to rely on a portable generator for a redundant power supply. In addition to overflow, the risk of power loss warrants a permanent solution for the criticality of the Gambles Mill Pumping.

In 2003, Hurricane Isabel caused the Richmond metropolitan area to lose power for a week, rendering Gambles Mill inoperable. It is estimated that nearly 200 million gallons of untreated wastewater was discharged into the Kanawha Canal and James River from this pump station alone, based on historical flows. In addition to the historical repetitive losses that are described below, the preliminary FIRMs issued in November 2021 maps the facility basin into Zone AE from Zone X.

Description of the Proposed Mitigation Approach:

Henrico County DPU proposes to mitigate future power loss due to extreme weather events at the Gambles Mill Pump Station through implementation of on-site backup power supply. The electrical upgrades for the redundant power supply will include installation of a 2,500kW generator with a sound attenuated enclosure, 20,000-gallon fuel tank with pumps and piping, 4,000A double-ended switchgear, panels, and duct banks.

Included in this package are the contract documents for this mitigation approach. These improvements will allow the pump station to remain fully operational during periods of power loss from existing commercial feeds. The project reduces the risk of potential functional disruption in the DPU wastewater conveyance and treatment system caused by power losses, improving resilience by ensuring that critical services always remain available and operational for the service population.

The DPU's Operations Division will oversee the project maintenance and daily operations upon completion of the construction. Annual maintenance for the project will include load bank testing for the generator and inspections and testing for switchgear, panelboards, and breakers. Should the generator be used in the event of a power outage, the Operations Division will monitor and document the asset's performance.

This project is comprised of two phases, with the first phase being preliminary planning services required before award and notice to proceed of the construction contract. This grant application is only for the first phase of the project which includes the geotechnical investigations, design of the mitigation, surveying services, environmental assessments, and permitting needs.

History of Hazards and Past Damages:







The table below summarizes the facility power outages, duration, and associated financial losses because of the outages.

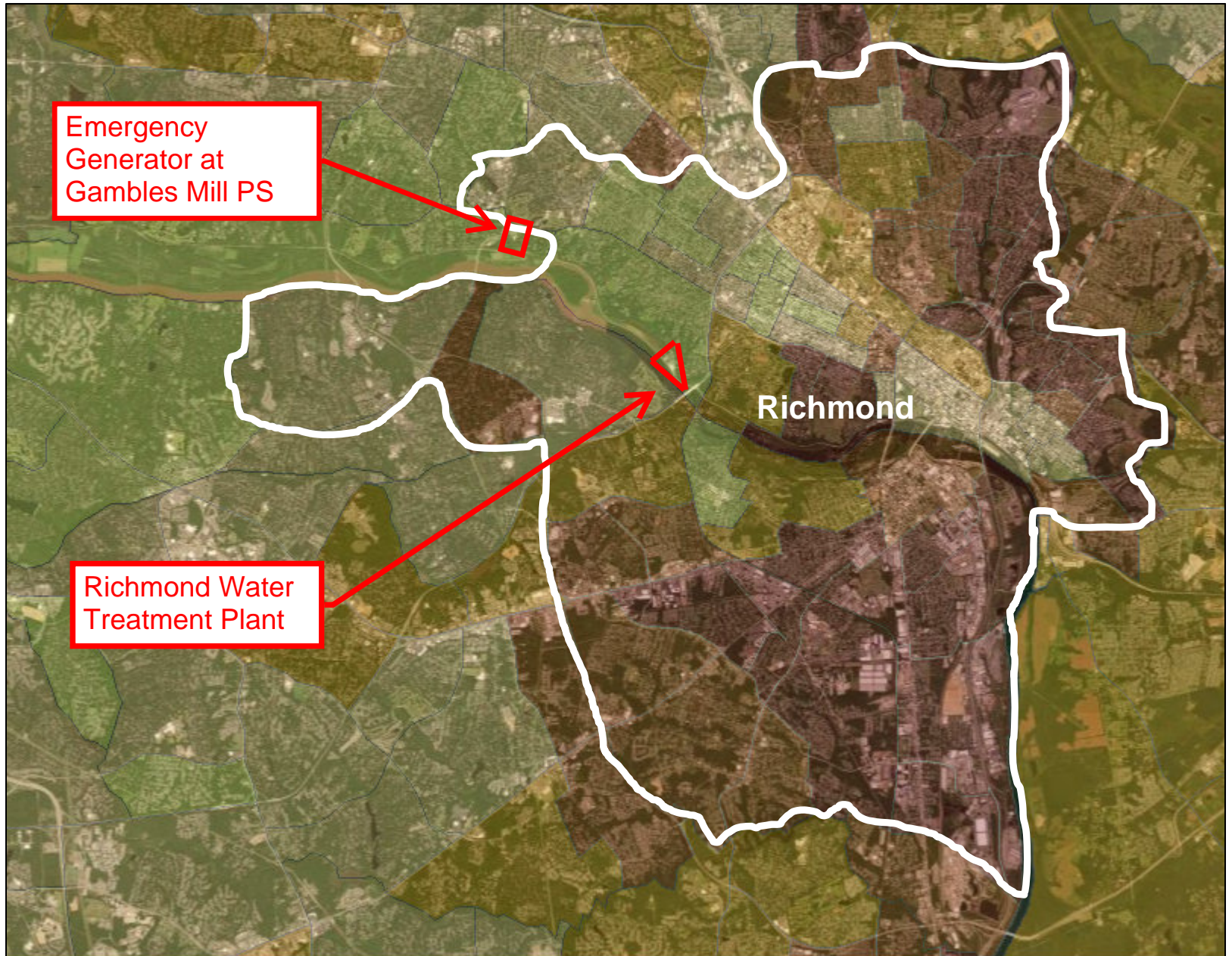
Date	Duration (days)	Loss	Description
6/16/2016	2.0	\$12,177,564	Power loss experienced for duration listed; loss of function experienced at pump station
6/11/2014	0.5	\$3,044,391	Power loss experienced for duration listed; loss of function experienced at pump station
5/16/2014	0.5	\$3,044,391	Power loss experienced for duration listed; loss of function experienced at pump station
7/13/2013	0.5	\$3,044,391	Power loss experienced for duration listed; loss of function experienced at pump station
08/27/2011	0.5	\$3,044,391	Power loss experienced for duration listed due to Hurricane Irene; loss of function experienced at pump station
06/29/2011	0.5	\$3,044,391	Power loss experienced for duration listed; loss of function experienced at pump station
08/16/2010	0.5	\$3,044,391	Power loss experienced for duration listed; loss of function experienced at pump station
01/17/2010	0.5	\$3,044,391	Power loss experienced for duration listed; loss of function experienced at pump station
09/18/2003	7	\$42,621,474	Power loss experienced for at least duration listed due to Hurricane Isabel.
6/19/1972	-	-	Hurricane Agnes likely impacted the site; widespread flooding experienced. Pump station was owned by City of Richmond at the time.
8/17/1969	-	-	Hurricane Camille likely impacted the site; widespread flooding experienced. Pump station was owned by City of Richmond at the time.

Supporting Reference Information

1. Plans for maintaining capacity, as necessary, over the long term.
 - a. Henrico County DPU has available yearly allocation for the inspections, maintenance, training, and operation of the portable emergency generator
2. Links to Supporting Documentation
 - a. Henrico County Current Floodplain Ordinance
 - i. [Henrico County Municipal Code - Chapter 24 - Article XXII - Section 24-106.1](#)
 - ii. "Development and land disturbing activities within special flood hazard area"
 - b. Richmond - Crater Hazard Mitigation Plan 2017
 - i. Pertains to entire Richmond metropolitan area, including Henrico County. Document attached in this package.
 - c. Henrico County approved Resilience Plan for CFPF
 - i. [Henrico County Approved Resilience Plan and Approval Letter August 2021](#)

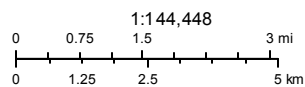
Social Vulnerability Index Score

-  Very Low Social Vulnerability
-  Low Social Vulnerability
-  Moderate Social Vulnerability
-  High Social Vulnerability
-  Very High Social Vulnerability
-  Not included in the analysis



January 27, 2022

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

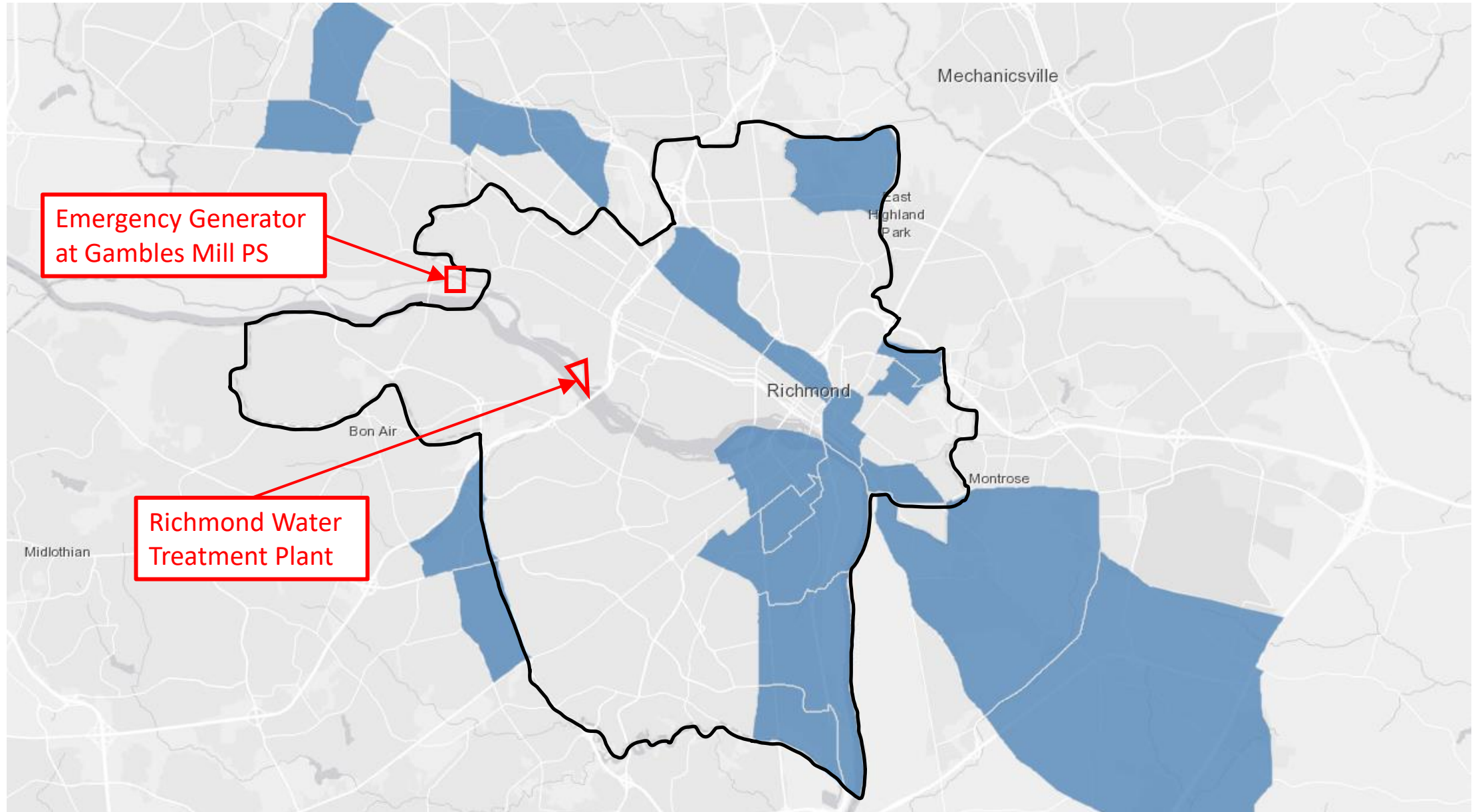


Created from the Virginia Vulnerability Viewer



ADAPTVA

Qualified Opportunity Zones



**GAMBLES MILL PUMP STATION
EMERGENCY FACILITY - PHASE 1
REVISED DESIGN SCHEDULE**

TASK	START	FINISH
Receive County Comments on 50% Submittal	6/1/2022	6/1/2022
Review Meeting with County	6/6/2022	6/6/2022
Public Informational Meeting (Phase 1 only)	6/1/2022	6/1/2022
Respond to Public Comments	7/1/2022	7/1/2022
Incorporate Public Comments in Design Documents	6/15/2022	7/15/2022
Incorporate County Comments into Design Documents	6/7/2022	8/15/2022
Prepare and Submit Revised POD Submittal	8/29/2022	9/30/2022
County Review, Staff Developer Meeting, Planning Commission Hearing, if required	10/3/2022	11/25/2022
Resubmit Final POD Submittal	11/30/2022	11/30/2022
90% DESIGN TASKS		
Prepare and Submit Permit Applications	11/15/2022	11/25/2022
Prepare 90% Plans and Specifications	11/15/2022	1/10/2023
Prepare SWPPP and cost estimate	11/15/2022	12/5/2022
QA/QC of 90% Submission	1/11/2023	1/18/2023
Submit 90% Plans and Specifications	1/20/2023	1/20/2023
Receive County Review Comments, Review Meeting	1/23/2023	2/15/2023
100% DESIGN TASKS		
Prepare 100% Plans and Specifications	2/16/2023	3/31/2023
Complete permit applications and resubmittals	2/16/2023	3/31/2023
QA/QC of final contract documents	4/1/2023	4/10/2023
Submit to County	4/11/2023	4/11/2023
County Review Comments and Meeting	4/12/2023	4/26/2023
Finalize 100% contract documents and cost estimate	4/27/2023	5/5/2023

C. Budget Narrative

1. **Estimated total project cost:**

The total estimated cost for Phase A of Gambles Mill PS Emergency Generator project is \$1,740,487. This includes all the preliminary planning services required prior to breaking ground and award of the construction contract. This includes the geotechnical investigations, design services, surveying services, environmental assessments, permitting costs, and associated programmatic management costs.

2. **Amount of funds requested from the Fund:**

Henrico County DPU requests **\$870,244** from the Community Flood Preparedness Fund.

3. **Amount of cash funds available:**

Please find attached statement from the Henrico County DPU indicating the available CIP budget for the year ending June 30, 2022, as **\$27.5 million**.

4. **Authorization to request for funding:**

Please find attached documentation of Henrico County DPU indicating their authorization to request funding.

Phase A Construction Costs

Description	Unit	Price	Subtotal
Phase A			
Geotechnical Investigation (Field, Labs, Analysis)	1	\$115,000.00	\$115,000.00
Design	1	\$1,380,000.00	\$1,380,000.00
Surveying	1	\$57,500.00	\$57,500.00
Environmental Assessment	1	\$65,918.89	\$65,918.89
Permitting	1	\$87,891.84	\$87,891.84
Pre-Award Costs	1	\$34,176.85	\$34,176.85
Phase A Total			\$1,740,487.58



COMMONWEALTH OF VIRGINIA
COUNTY OF HENRICO

DEPARTMENT OF PUBLIC UTILITIES
804.501.4517

April 5, 2022

Virginia Department of Conservation and Recreation
600 East Main Street
24th Floor
Richmond, VA 23219-2094

To whom it may concern:

The total design contract value of the Gambles Mill PS Emergency Generator project is \$1,740,487, which includes the design of the emergency generator and electrical improvements at the Gambles Mill PS. The County of Henrico, Department of Public Utilities is an enterprise fund within the County of Henrico. Therefore, Public Utilities has a dedicated revenue stream and is appropriated Capital Improvement funds annually. Those dedicated revenues are projected to be \$27.5 million in FY2022 and part of those funds will cover the total estimated project cost prior to DCR grant reimbursement. The DPU is committed to contribute 50% of the project funds and the source of the funds is from the 2019 Water and Sewer Capital Improvement budget (copy enclosed).

Sincerely,

Bentley P. Chan, PE
Director of Public Utilities

Enclosure

COUNTY OF HENRICO, VIRGINIA
PROPOSED REVENUES & EXPENDITURES - WATER & SEWER ENTERPRISE FUND
FY 2020-21

Water and Sewer Enterprise Fund

Revenues/Resources	FY 18-19 Actual	FY 19-20 Original	FY 20-21 Approved
<u>Water and Sewer Operating Budget:</u>			
Sale of Water	\$57,458,997	\$59,531,001	\$62,252,832
Sale of Sewer	57,593,466	58,909,374	61,440,215
Water Charges	6,847,766	4,785,606	5,189,550
Sewer Charges	6,879,189	4,863,316	5,199,853
Strong Waste Surcharge	375,933	600,000	370,000
City of Richmond	1,348,830	890,100	1,215,688
Interest Earnings	523,389	850,000	981,787
Other Water/Sewer Revenues	1,871,108	1,346,789	1,575,852
Transfer from General Fund	1,930,021	1,928,921	1,929,858
Total Operating Revenues	134,828,699	133,705,107	140,155,635

Operating Expenditures

<u>Water and Sewer Operating Budget:</u>			
Personnel	21,773,154	22,966,323	23,665,477
Operating	44,731,431	43,638,992	45,274,849
Capital Outlay	580,799	781,922	1,135,653
Sub-Total Operating	67,085,384	67,387,237	70,075,979
Debt Service	26,846,075	29,298,024	31,809,741
Total Operating Expenditures	93,931,459	96,685,261	101,885,720
Results of Operations (Prior to Capital Expenses)	(40,897,240)	(37,019,846)	(38,269,915)
Budget For Capital Use (Below)	(103,004,520)	(69,650,000)	(27,500,000)

Capital Budget Expenditures	FY 18-19 Actual	FY 19-20 Original	FY 20-21 Approved
Approved Capital Projects (FY2019-20 Budget)		69,650,000	
Approved Capital Projects (New FY2020-21 Budget)			27,500,000
Continuing Capital Projects (Previously Approved) (1)	103,004,520		
Total Capital Budget Expenses:	103,004,520	69,650,000	27,500,000
Capital Budget Resources			
Water and Sewer Revenues	28,648,730	61,150,000	27,500,000
Revenue Bonds	74,355,790	8,500,000	0
Total Capital Budget Resources:	103,004,520	69,650,000	27,500,000

Notes:

(1) This number plus the budget figure reflects Utilities estimate of capital spending from previously Board approved capital projects. FY2018-19 represents actual spending, as per the 2019 audit.

**County of Henrico, Virginia
Approved Capital Budget
FY2018-19**

Project Number	Project Name	Approved FY2018-19
Enterprise Fund - Public Utilities		
<u>Other Local Revenue</u>		
00782	New Sewer Connections	\$ 200,000
00772	Sewer Line Extensions	500,000
00732	Sewer Line Rehabilitation	5,000,000
00743	Sewer Pump Station (SPS) Improvements	1,600,000
00737	Sewer Reloc., Adjustments & Crossings	200,000
00725	Plan Review and Inspection	1,700,000
06492	Roof Replacement	50,000
08172	Water Reclamation Facility Improvements	500,000
00735	Water Reclamation Facility Expansion	1,500,000
06449	White Oak SPS Improvements	800,000
06569	Upham Brook Storage Facilities	7,000,000
	Subtotal - Other Local Revenue	<u>\$ 19,050,000</u>
<u>Revenue Bonds</u>		
01076	Strawberry Hill Basin Sewer Rehab	\$ 12,500,000
06152	Gambles Mill SPS Flow Equalization Basin (FEB) Modification	7,800,000
	Subtotal - Revenue Bonds	<u>\$ 20,300,000</u>
	Subtotal - Sewer	<u>\$ 39,350,000</u>
<u>Other Local Revenue</u>		
00771	New Water Connections	\$ 150,000
00770	Water Line Extensions	300,000
00768	Water Line Rehabilitation	4,000,000
00769	Water Pumping Station Improvements	1,300,000
00780	Water Meters	500,000
00767	Water Reloc., Adjustments & Crossings	200,000
00811	Information Technology Projects	15,000,000
08171	Water Treatment Facility Improvements	1,300,000
08162	Woodman Road Water Line	300,000
	Subtotal - Water	<u>\$ 23,050,000</u>
	Total - Enterprise Fund - Public Utilities	<u><u>\$ 62,400,000</u></u>
	TOTAL APPROVED CAPITAL BUDGET FOR FY2018-19	<u><u>\$ 176,964,800</u></u>



**COUNTY OF HENRICO, VIRGINIA
BOARD OF SUPERVISORS
MINUTE**

Agenda Item No. 95-22
Page No. 1 of 1

Agenda Title: RESOLUTION — Authorization to Submit Applications — Community Flood Preparedness Fund

For Clerk's Use Only: Date: <u>3/8/2022</u> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> Amended <input type="checkbox"/> Deferred to: _____	BOARD OF SUPERVISORS ACTION Moved by (1) <u>Schmitt</u> Seconded by (1) <u>Branin</u> (2) _____ (2) _____ REMARKS: <div style="font-size: 2em; font-weight: bold; text-align: center;">APPROVED</div>	<table border="0"> <tr> <td></td> <td align="center">YES</td> <td align="center">NO</td> <td align="center">OTHER</td> </tr> <tr> <td>Branin, T.</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Nelson, T.</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>O'Bannon, P.</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Schmitt, D.</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Thornton, F.</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		YES	NO	OTHER	Branin, T.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nelson, T.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	O'Bannon, P.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Schmitt, D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Thornton, F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHEREAS, the Virginia Department of Conservation and Recreation's ("DCR") Community Flood Preparedness Fund ("CFPF") was established to provide grant funding for regions and localities across Virginia to reduce the impacts of flooding, including flooding driven by climate change ("Flood Preparedness Projects"); and,

WHEREAS, the CFPF program reimburses eligible recipients up to 90% of the approved costs of Flood Preparedness Projects; and,

WHEREAS, the County must submit applications for CFPF funding through DCR; and,

WHEREAS, the County has identified two Flood Preparedness Projects that are eligible for CFPF funds:

- (1) planning for stream restoration and utility rehabilitation at utility stream crossings; and
- (2) installation of an emergency generator at the Gambles Mill Sewage Pump Station to provide redundant power for continuous operation of the pump station.

NOW, THEREFORE, BE IT RESOLVED that the Board of Supervisors authorizes the Director of Public Utilities to submit applications for CFPF funding for the projects identified above.

Comment: The Director of Public Utilities recommends approval of the Board paper, and the County Manager concurs.

By Agency Head [Signature] By County Manager [Signature]

Copy to: _____

Certified: _____
A Copy Teste _____
Clerk, Board of Supervisors

Date: _____

**COUNTY OF HENRICO, VIRGINIA
BOARD OF SUPERVISORS
MINUTE**

Agenda Title: **RESOLUTION - Approval of Operating and Capital Annual Fiscal Plans for FY 2021-22 and Allocation of Car Tax Relief for Tax Year 2021**

For Clerk's Use Only: Date: <u>4/13/2021</u> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> Amended <input type="checkbox"/> Deferred to:	BOARD OF SUPERVISORS ACTION Moved by (1) <u>Nelson</u> Seconded by (1) <u>O'Bannon</u> (2) <u>Branin</u> (2) <u>Shante</u> REMARKS: APPROVED	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="text-align: center;">YES</td> <td style="text-align: center;">NO</td> <td style="text-align: center;">OTHER</td> </tr> <tr> <td>Branin, T.</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Nelson, T.</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>O'Bannon, P.</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Schmitt, D.</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Thornton, F.</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		YES	NO	OTHER	Branin, T.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nelson, T.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	O'Bannon, P.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Schmitt, D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Thornton, F.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHEREAS, the Board of Supervisors of the County of Henrico, Virginia, held an advertised public hearing at 6:00 p.m., on March 23, 2021, to consider the proposed Operating and Capital Annual Fiscal Plans for FY 2021-22; and,

WHEREAS, the Board wishes to approve the proposed Plans with the changes noted below.

NOW, THEREFORE, BE IT RESOLVED that the proposed Operating and Capital Annual Fiscal Plans for FY 2021-22 are hereby approved for informative and fiscal planning purposes only, with the changes noted.

OPERATING ANNUAL FISCAL PLAN
ESTIMATED OPERATING RESOURCES

<u>01- GENERAL FUND:</u>	<u>Manager Proposed</u>	<u>Board Approved</u>
General Property Taxes	\$ 531,320,000	\$ 531,320,000
Other Local Taxes	170,610,000	170,610,000
Permits, Fees, & Licenses	6,754,000	6,754,000
Fines & Forfeitures	2,085,000	2,085,000
Use of Money & Property	11,334,700	11,334,700
Charges for Services	3,710,500	3,710,500
Miscellaneous	3,969,000	3,969,000
Recovered Costs	4,338,000	4,338,000
Total from Local Sources	\$ 734,121,200	\$ 734,121,200
Non-Categorical Aid	\$ 14,057,000	\$ 14,057,000
Shared Expenses	17,200,000	17,200,000
Categorical Aid	362,395,040	362,395,040
Total from State	\$ 393,652,040	\$ 393,652,040
Categorical Aid - Total Federal	\$ 385,000	\$ 385,000
GENERAL FUND REVENUE	\$ 1,128,158,240	\$ 1,128,158,240
Operating Transfers	\$ (183,357,196)	\$ (183,357,196)
From (To) Fund Balance	39,124,300	39,124,300
GENERAL FUND RESOURCES	\$ 983,925,344	\$ 983,925,344

By Agency Head By County Manager

Copy to: _____ Clerk, Board of Supervisors

Certified: _____
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Date: _____

**COUNTY OF HENRICO, VIRGINIA
BOARD OF SUPERVISORS
MINUTE**

Agenda Title: **RESOLUTION - Approval of Operating and Capital Annual Fiscal Plans for FY 2021-22 and Allocation of Car Tax Relief for Tax Year 2021**

11 – SPECIAL REVENUE FUND:

Permits, Fees, & Licenses	\$ 1,059,905	\$ 1,059,905
Fines & Forfeitures	283,360	283,360
Use of Money & Property	143,108	143,108
Charges for Services	31,573,153	31,573,153
Miscellaneous	9,091,888	9,091,888
Recovered Costs	618,008	618,008
Total from Local Sources	<u>\$ 42,769,422</u>	<u>\$ 42,769,422</u>
Non-Categorical Aid	\$ 4,239,382	\$ 4,239,382
Categorical Aid	52,381,040	52,381,040
Total from State	<u>\$ 56,620,422</u>	<u>\$ 56,620,422</u>
Categorical Aid - Total Federal	\$ 63,016,717	\$ 63,016,717
SPECIAL REVENUE FUND REVENUE	\$ 162,406,561	\$ 162,406,561
Operating Transfers	\$ 36,906,981	\$ 36,906,981
From (To) Fund Balance	1,574,041	1,574,041
SPECIAL REVENUE FUND RESOURCES	\$ 200,887,583	\$ 200,887,583

51 – WATER AND SEWER ENTERPRISE FUND:

Fines & Forfeitures	\$ 159,485	\$ 159,485
Charges for Services	135,779,291	135,779,291
Miscellaneous	2,557,472	2,557,472
W&S ENTERPRISE FUND REVENUE	\$ 138,496,248	\$ 138,496,248
Operating Transfers	\$ 1,932,108	\$ 1,932,108
From (To) Retained Earnings	(36,156,652)	(36,156,652)
W&S ENTERPRISE FUND RESOURCES	\$ 104,271,704	\$ 104,271,704

61 – CENTRAL AUTO MAINTENANCE (C.A.M.) FUND:

Use of Money & Property	\$ 400,000	\$ 400,000
Recovered Costs	22,561,406	22,561,406
C.A.M. FUND REVENUES	\$ 22,961,406	\$ 22,961,406
Operating Transfers	0	0
C.A.M. FUND RESOURCES	\$ 22,961,406	\$ 22,961,406

62 – TECHNOLOGY REPLACEMENT FUND:

Operating Transfers	\$ 3,000,000	\$ 3,000,000
From (To) Retained Earnings	1,314	1,314
TECH. REPLACE. FUND RESOURCES	\$ 3,001,314	\$ 3,001,314

63 – RISK MANAGEMENT/WORKPLACE SAFETY FUND:

Recovered Costs - Total Revenue	\$ 1,000,000	\$ 1,000,000
Operating Transfers	9,493,570	9,493,570
RISK MANAGEMENT/WORKPLACE SAFETY RES.	\$ 10,493,570	\$ 10,493,570

64 - HEALTHCARE FUND:

Interest on Investment	\$ 400,000	\$ 400,000
Miscellaneous	200,000	200,000
Recovered Costs	142,438,275	142,438,275
HEALTHCARE FUND RESOURCES	\$ 143,038,275	\$ 143,038,275

71 – DEBT SERVICE FUND:

Operating Transfers - TOTAL RESOURCES	\$ 78,346,649	\$ 78,346,649
DEBT SERVICE FUND RESOURCES	\$ 78,346,649	\$ 78,346,649

**COUNTY OF HENRICO, VIRGINIA
BOARD OF SUPERVISORS
MINUTE**

Agenda Title: **RESOLUTION - Approval of Operating and Capital Annual Fiscal Plans for FY 2021-22 and Allocation of Car Tax Relief for Tax Year 2021**

<u>82 – JAMES RIVER JUVENILE DETENTION CENTER AGENCY FUND:</u>		
Shared Expenses - Local	\$ 534,082	\$ 534,082
Shared Expenses - State	1,565,294	1,565,294
JRJDC AGENCY FUND REVENUE	\$ 2,099,376	\$ 2,099,376
Operating Transfers	\$ 3,451,088	\$ 3,451,088
From (To) Fund Balance	133,512	133,512
JRJDC AGENCY FUND RESOURCES	\$ 5,683,976	\$ 5,683,976
<u>83 – FIDUCIARY FUNDS</u>		
Recovered Costs	\$ 75,000	\$ 75,000
Operating Transfers	4,525,000	4,525,000
OPEB, LINE OF DUTY AND LTD RESOURCES	\$ 4,600,000	\$ 4,600,000
<u>90 – ADJUSTMENT FOR INTERFUND TRANSACTIONS:</u>		
Operating Transfers - TOTAL RESOURCES	\$ (125,273,753)	\$ (125,273,753)
TOTAL OPERATING RESOURCES	\$ 1,431,936,068	\$ 1,431,936,068
Including: REVENUE TOTAL	\$ 1,597,654,773	\$ 1,597,654,773
OPERATING TRANSFERS	(170,911,553)	(170,911,553)
FUND BALANCE/RETAINED EARNINGS	5,192,848	5,192,848
	\$ 1,431,936,068	\$ 1,431,936,068

ESTIMATED OPERATING REQUIREMENTS

<u>Department</u>	<u>Manager Proposed</u>	<u>Board Approved</u>
<u>01- GENERAL FUND:</u>		
General Government Administration	\$ 64,023,716	\$ 64,023,716
Judicial Administration	10,276,583	10,276,583
Public Safety	215,015,894	215,015,894
Public Works	54,651,170	54,651,170
Health & Welfare	2,687,497	2,687,497
Education	560,920,241	560,920,241
Recreation, Parks, & Culture	42,355,130	42,955,130 *
Community Development	20,627,148	20,627,148
Miscellaneous	13,367,965	12,767,965 *
TOTAL GENERAL FUND	\$ 983,925,344	\$ 983,925,344
<u>11 – SPECIAL REVENUE FUND:</u>		
Judicial Administration	\$ 2,555,354	\$ 2,555,354
Public Safety	3,940,367	3,904,967 *
Public Works	18,289,050	18,289,050
Health & Welfare	74,893,137	74,893,137
Education	100,959,675	100,959,675
Miscellaneous	250,000	285,400 *
TOTAL SPECIAL REVENUE FUND	\$ 200,887,583	\$ 200,887,583
<u>51 – WATER AND SEWER ENTERPRISE FUND:</u>		
Public Utilities - Operations	\$ 73,918,961	\$ 73,918,961
- Debt Service	30,352,743	30,352,743
TOTAL W&S ENTERPRISE FUND	\$ 104,271,704	\$ 104,271,704
<u>61 – CENTRAL AUTO MAINTENANCE FUND:</u>		
Central Auto. Maint. - TOTAL FUND	\$ 22,961,406	\$ 22,961,406

**COUNTY OF HENRICO, VIRGINIA
BOARD OF SUPERVISORS
MINUTE**

Agenda Title: **RESOLUTION - Approval of Operating and Capital Annual Fiscal Plans for FY 2021-22 and Allocation of Car Tax Relief for Tax Year 2021**

<u>62 – TECHNOLOGY REPLACEMENT FUND:</u>		
Technology Replacement - TOTAL FUND	\$ 3,001,314	\$ 3,001,314
<u>63 – RISK MANAGEMENT/WORKPLACE SAFETY FUND:</u>		
Finance	\$ 10,493,570	\$ 10,493,570
TOTAL RISK MANAGEMENT/WORKPLACE SAFETY	\$ 10,493,570	\$ 10,493,570
<u>64 – HEALTHCARE FUND:</u>		
Healthcare - TOTAL FUND	\$ 143,038,275	\$ 143,038,275
<u>71 – DEBT SERVICE FUND:</u>		
General Government	\$ 32,711,095	\$ 32,711,095
Education	45,635,554	45,635,554
TOTAL DEBT SERVICE FUND	\$ 78,346,649	\$ 78,346,649
<u>82 – JAMES RIVER JUVENILE DETENTION CENTER AGENCY FUND:</u>		
JRJDC - Operations	\$ 5,683,976	\$ 5,683,976
<u>83 – FIDUCIARY FUND:</u>		
OPEB - GASB 45	\$ 2,750,000	\$ 2,750,000
Long-Term Disability	600,000	600,000
Line of Duty Act (LODA)	1,250,000	1,250,000
TOTAL FIDUCIARY FUND	\$ 4,600,000	\$ 4,600,000
<u>90 – ADJUSTMENT FOR INTERFUND TRANSACTIONS:</u>		
Interdepartmental Billings - CAM	\$ (22,961,406)	\$ (22,961,406)
- Healthcare	(102,312,347)	(102,312,347)
TOTAL ADJUSTMENTS	\$ (125,273,753)	\$ (125,273,753)
TOTAL OPERATING REQUIREMENTS	\$ 1,431,936,068	\$ 1,431,936,068

* Indicates a change

CAPITAL ANNUAL FISCAL PLAN
ESTIMATED CAPITAL RESOURCES

<u>Source</u>	<u>Manager Proposed</u>	<u>Board Approved</u>
<u>21 - CAPITAL PROJECTS FUND:</u>		
Central Virginia Transit Authority	\$ 22,500,000	\$ 22,500,000
Education Meals Tax Revenue	9,000,000	9,000,000
G. O. Bonds - General	48,400,000	48,400,000
G. O. Bonds - Education	19,000,000	19,000,000
Bond Premiums	12,305,685	12,305,685
General Fund - Stormwater Dedication	2,348,000	2,348,000
Designated Capital Reserve	12,440,000	12,440,000
VPSA Bonds	54,055,000	54,055,000
Fund Balance - General Fund	10,825,000	10,825,000
TOTAL CAPITAL PROJECTS FUND	\$ 190,873,685	\$ 190,873,685
<u>22 - VEHICLE REPLACEMENT RESERVE:</u>		
Fund Balance - General Fund	\$ 11,024,800	\$ 11,024,800
TOTAL VEHICLE REPLACEMENT RESERVE	\$ 11,024,800	\$ 11,024,800
<u>51 – WATER AND SEWER ENTERPRISE FUND:</u>		
Water & Sewer Fees/Charges	\$ 33,300,000	\$ 33,300,000
TOTAL WATER AND SEWER ENTERPRISE FUND	\$ 33,300,000	\$ 33,300,000
TOTAL CAPITAL RESOURCES	\$ 235,198,485	\$ 235,198,485

**COUNTY OF HENRICO, VIRGINIA
BOARD OF SUPERVISORS
MINUTE**

Agenda Title: **RESOLUTION - Approval of Operating and Capital Annual Fiscal Plans for FY 2021-22 and Allocation of Car Tax Relief for Tax Year 2021**

ESTIMATED CAPITAL REQUIREMENTS

<u>Department</u>	<u>Manager Proposed</u>	<u>Board Approved</u>
<u>21 - CAPITAL PROJECTS FUND:</u>		
General Government	\$ 101,318,685	\$ 101,318,685
Education	89,555,000	89,555,000
TOTAL CAPITAL PROJECTS FUND	<u>\$ 190,873,685</u>	<u>\$ 190,873,685</u>
 <u>22 - VEHICLE REPLACEMENT RESERVE:</u>		
Public Safety	\$ 6,324,800	\$ 6,324,800
Education	4,700,000	4,700,000
TOTAL VEHICLE REPLACEMENT RESERVE	<u>\$ 11,024,800</u>	<u>\$ 11,024,800</u>
 <u>51 - WATER AND SEWER ENTERPRISE FUND:</u>		
Public Utilities - Water	\$ 5,200,000	\$ 5,200,000
- Sewer	28,100,000	28,100,000
TOTAL WATER & SEWER ENTERPRISE FUND	<u>\$ 33,300,000</u>	<u>\$ 33,300,000</u>
 TOTAL CAPITAL REQUIREMENTS	 <u><u>\$ 235,198,485</u></u>	 <u><u>\$ 235,198,485</u></u>

BE IT FURTHER RESOLVED that the funds included in the Operating and Capital Annual Fiscal Plans for any County department, office, or agency may be used as participating funds in any Federal or State aid program for like purpose upon appropriation by the Board of Supervisors; and,

BE IT FURTHER RESOLVED that the Schedule of Compensation attached hereto effective at the beginning of FY 2021-22 is approved; and,

BE IT FURTHER RESOLVED that the approved Operating Annual Fiscal Plan for FY 2021-22 includes:

1. An increase in the personnel complement of 13 positions for General Government and 91.5 positions for Schools;
2. Continued funding for a 2% scale adjustment for all employees effective in the fourth quarter of FY 2020-21;
3. Continued funding for market adjustments for certain public safety, education, and other positions effective in the fourth quarter of FY 2020-21;
4. New funding for a 2.372% wage increase for all eligible General Government and Schools employees, to be effective on June 19, 2021; and
5. New funding for a wage increase ranging from 2.372% to 9.831%, based on length of service in Henrico County and other eligibility criteria, to be effective in the second quarter of FY 2021-22.

BE IT FURTHER RESOLVED that in order to implement changes to the Personal Property Tax Relief Act of 1998 (the "PPTRA") made by legislation adopted by the Virginia General Assembly:

1. Any qualifying vehicle, as defined in the PPTRA, sitused within the County commencing January 1, 2021, shall receive personal property tax relief in the following manner:
 - a. Qualifying vehicles valued at \$1,000 or less shall receive 100% tax relief;
 - b. Qualifying vehicles valued at between \$1,001 to \$20,000 shall receive 48% tax relief;
 - c. Qualifying vehicles valued at \$20,001 or more shall receive 48% tax relief on the first \$20,000 of value only; and
 - d. All other vehicles which do not meet the definition of "qualifying vehicles" will not receive any form of tax relief under the PPTRA.
2. The amount of tax relief shall be a specific dollar amount offset against the total personal property taxes that would otherwise be due on a qualifying vehicle but for the PPTRA. The specific dollar amount of relief shall be shown on the tax bill for each qualifying vehicle, together with a general description of the criteria upon which relief has been allocated.

COMMENTS: The Director of Finance recommends approval of the Board paper, and the County Manager concurs.

**FY22 SCHEDULE OF COMPENSATION
County of Henrico, Virginia**

<u>OFFICE, BOARD, COMMISSION, AUTHORITY OR JOB TITLE</u>	<u>RATE</u>
Board of Supervisors	\$ 58,498.11 per annum ⁽¹⁾
Board of Zoning Appeals.....	\$6,600.00 per annum
Electoral Board - General Election (members other than the Secretary).....	\$4,649.40 per annum ⁽²⁾
Secretary, Electoral Board - General Election.....	\$9,289.80 per annum ⁽²⁾
Election Officials	\$150.00 base pay per workday ⁽³⁾
Assistant Chief Election Officials	\$180.00 base pay per workday ⁽³⁾
Chief Election Officials.....	\$200.00 base pay per workday ⁽³⁾
Planning Commission.....	\$20,000.00 per annum
Richmond Regional Planning District Commission	\$3,000.00 per annum
Capital Region Airport Commission	\$3,000.00 per annum
Board of Real Estate Review & Equalization.....	\$300.00 per month
School Board	\$21,786.60 per annum ⁽⁴⁾
Social Services Board	\$3,000.00 per annum
Volunteer Firefighters.....	\$2.00 per call
Economic Development Authority.....	\$200.00 per meeting
Parks and Recreation Advisory Commission	\$75.00 per meeting
Housing Advisory Committee	\$225.00 per meeting

-
- (1) Acting pursuant to Va. Code Sec. 15.2-1414.2, on April 23, 2019, the Board set the maximum annual salaries for calendar years 2020-2023 as follows: 2020-\$57,142.69; 2021-\$58,498.11; 2022-\$59,885.69; 2023-\$61,306.17, and the Chairman and Vice-Chairman receive the additional sum of 15% and 10%, respectively, of the annual salary prevailing in each calendar year. The Board elected to forgo the increase in its compensation previously authorized for 2021. Effective January 12, 2021 the pay for the Board will be adjusted to reflect the rate previously authorized for 2021.
- (2) The annual compensation rate and effective date are set by the General Assembly and subject to the Governor's approval. Salary amounts for FY22 are based upon current salaries and increases approved by the 2020 General Assembly. To date, the General Assembly has agreed to a 5% pay increase on July 1, 2021. However, the FY22 budget has not been approved by the Governor so the salary shown here may change.
- (3) Rate approved by the Henrico County Board of Supervisors on October 14, 2008.
- (4) Acting pursuant to Va. Code Sec. 22.1-32, on May 9, 2019, the School Board set the maximum annual salary for calendar year 2020 at \$21,359.41, and determined, in each calendar year 2021, 2022, and 2023, that each member of the School Board will receive a maximum increase equal to any wage increase established for School Board employees. For FY22, the pay increase is 2%. The Chairman receives an additional sum of \$2,000.00 per year.

9)

**FY21 SCHEDULE OF COMPENSATION
County of Henrico, Virginia**

<u>NAME AND OFFICE OR JOB TITLE</u>	<u>SALARY</u>
Heidi Barshinger Clerk of Circuit Court.....	\$ 172,460.43 ^{(5) (7)}
Alisa Gregory Sheriff.....	\$ 171,959.70 ^{(5) (6) (8)}
Mark Coakley General Registrar.....	\$ 109,919.76 ^{(6) (9)}
Shannon Taylor ⁽¹⁰⁾ Attorney for the Commonwealth.....	\$ 195,371.85 ^{(6) (10)}

-
- (5) The Clerk of the Circuit Court and the Sheriff are elected positions. The General Assembly sets the annual compensation and effective dates subject to the Governor’s approval. Salaries for FY22 are based on current salaries and reflect the 5% pay increase effective July 1, 2021 as approved by the General Assembly in the 2021 Special Session I. The County adjusts these salaries if and as required by the General Assembly’s actions.
 - (6) 2012 Va. Acts c. 822 requires persons employed by local government to contribute five percent of their creditable compensation for the employee contribution to the Virginia Retirement System. To comply with 2012 Va. Acts c. 822 and the non-supplant requirement, the current incumbent in this elected/appointed position, who was employed or hired on or before July 1, 2012, receives an additional amount equal to 5% of the salary approved by the General Assembly. Future incumbents in this position will not receive an additional 5% locality supplement for the VRS employee member contribution per 2012 Va. Acts c. 822.
 - (7) Salary reflects the current Clerk of the Circuit Court’s certification.
 - (8) Consistent with historical pay practice for this position, the current Sheriff will receive the longevity pay adjustment approved by the County Board of Supervisors. Consistent with the approved longevity pay formula, the current position incumbent will receive a pay supplement equal to 3-steps (7.286%) effective September 25, 2021.
 - (9) Effective June 22, 2019 (FY20), the constitutional position of General Registrar was adopted into the County classification and compensation plan at grade HU.34. However, the General Assembly has approved repositioning the General Registrar classification/salary within the State’s compensation system. If the budget approved by the General Assembly is approved by the Governor, the General Assembly’s actions may result in this position/classification being returned to the Schedule of Compensation.
 - (10) Effective June 22, 1988 (FY89), the constitutional position of Attorney for the Commonwealth was adopted into the County classification and compensation plan. The position is currently assigned to pay grade HU.49 and the current elected position incumbent (Taylor) receives the pay increases and wage adjustments approved by the County Board of Supervisors for county pay plans.

Appendix B: Scoring Criteria for Flood Prevention and Protection Projects

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

Applicant Name:		Henrico County Department of Public of Utilities	
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	X	
No	Eligible for consideration for studies, capacity building, and planning only	-	
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?			
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	-	

Project Eligible for Consideration		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Applicant Name:			
Scoring Information			
Criterion	Point Value	Points Awarded	
6. Eligible Projects (Select all that apply)			
Projects may have components of both 1.a. and 1.b. below; however, only one category may be chosen. The category chosen must be the primary project in the application.			
1.a. Acquisition of property consistent with an overall comprehensive local or regional plan for purposes of allowing inundation, retreat, or acquisition of structures.	50	-	
<input type="checkbox"/> Wetland restoration, floodplain restoration <input type="checkbox"/> Living shorelines and vegetated buffers. <input type="checkbox"/> Permanent conservation of undeveloped lands identified as having flood resilience value by <i>Conserve Virginia</i> Floodplain and Flooding Resilience layer or a similar data driven analytic tool <input type="checkbox"/> Dam removal <input type="checkbox"/> Stream bank restoration or stabilization. <input type="checkbox"/> Restoration of floodplains to natural and beneficial function. <input type="checkbox"/> Developing flood warning and response systems, which may include gauge installation, to notify residents of potential emergency flooding events.	45	-	
1.b. any other nature-based approach	40	-	
All hybrid approaches whose end result is a nature-based solution	35	-	
All other projects	25	25	
7. Is the project area socially vulnerable? (Based on ADAPT VA's Social Vulnerability Index Score.)			
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	8	
Low Social Vulnerability (-1.0 to 0.0)	0	-	
Very Low Social Vulnerability (Less than -1.0)	0	-	
8. Is the proposed project 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 project in a low-income geographic area as defined in this manual?		
Yes	10	10
No	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
11. Does this project provide "community scale" benefits?		
Yes	20	20
No	0	-
Total Points		63

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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
FIRMette of the project area(s) (Projects/Studies)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Historic flood damage data and/or images (Projects/Studies)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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



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

CID_510077 - Henrico County CFPF Round 3 Submission

1 message

Shue, Allen <ashue@greeley-hansen.com>

Thu, Apr 7, 2022 at 8:43 PM

To: Virginia Department of Conservation & Recreation <cfpf@dcr.virginia.gov>

Cc: "Chan, Bentley" <cha70@henrico.us>, "Claytor, Ralph" <cla01@henrico.us>, "Sossong, Marchelle" <sos@henrico.us>, "Logue, Kyle" <klogue@greeley-hansen.com>

Hello,

I am a consulting engineer assisting Henrico County (County) with submitting two grant applications for this round of the VA DCR Community Flood Preparedness Fund Grant.

Due to the size of the applications they are not able to be transmitted through email. Please find the following .zip files through the service WeTransfer:

- CID# 510077_HenricoCounty.Gambles_Mill_PS_Flood_Mitigation_and Resiliency_CFPF-1
- CID# 510077_HenricoCounty.Stream_Restoration_at_Utility Xing_CFPF-2

At this link:

- [Henrico County - CFPF Round 3 Applications](#)
- Please note that you will need to click through the splash page before clicking the download link.

Thank you very much for the consideration. Looking forward to speaking with you.

Regards,

Allen



Allen Shue, PE, CFM

Associate

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