Cultural Resource Hazard Mitigation Plan

Weather It Together: The Annapolis Model

Lisa Craig – Chief of Historic Preservation, Annapolis
lmcraig@Annapolis.gov
Annapolis, a city with exceptional attributes for a great future, needs only a population and city administration willing to use these attributes wisely, preserving and protecting the beauty of its natural setting, the splendor of its four centuries of architecture and history of exceptional significance.

Anne St. Clair Wright, 1992
What is most compelling about the Annapolis model for public engagement piece is that it's always considered and included as they move through the different stages of plan development -- that's really the takeaway here: that the City has managed to create and implement a meaningful, successful public engagement process.

Jen Sparenberg
Resilience Manager
Maryland Historical Trust – MD Dept. of Planning
Ice melts at 32 degrees. It doesn’t care if you are a Republican or a Democrat.

- John Englander, oceanographer and author of High Tide on Main Street
Since 2001, water has reached flood levels an average of 20 days or more a year in Annapolis, Maryland; Wilmington, North Carolina; Washington, D.C.; Atlantic City, New Jersey; Sandy Hook, New Jersey; and Charleston, South Carolina.
Annapolis experienced the greatest increase in nuisance flooding during the last 50 years - 925% - from an average of 3.8 to 39.3 per year. In the next 50 years, nuisance flooding is estimated to occur more than once a day. (Source: NOAA)
Communicating Risk
Lost Landmarks of the Chesapeake

Holland, Hooper’s and Sharp Islands - Last structures lost (2010)
Resiliency Planning: The City
2011 Annapolis Sea Level Rise Studies & Mitigation Strategies

- Focus on protecting existing structures
- Study downtown to determine costs & benefits of public decision-making in mitigating property damage
- Evaluate the need and options for protecting historic structures
- Require floodproofing to the extent feasible
Mapping Annapolis: 2016
FEMA Flood Insurance Rate Map (FIRM)

- Blue shading represents a 1% annual chance (100-year) flood
- Orange shading represents a 0.2% annual chance (500-yr) flood
Mapping Annapolis: 2100
FEMA FIRM

- Flood elevation 8.2 ft.
- 1% annual chance flood (4.5') plus 3.7 feet for sea level rise by the year 2100
Remembering Isabel
September 19, 2003

Eastport
Naval Academy
Historic Landmark District
Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and manmade hazards.

1. **Organize Resources** to develop a mitigation plan;
2. **Identify hazards** and **Assess Losses** to your community;
3. **Set Priorities** and goals for mitigation/adaptation and **Write the Plan**;
4. **Implement** the plan, including project funding.
STAKEHOLDERS (Partial List)
City of Annapolis • Chesapeake Bay Foundation • Downtown Annapolis Partnership • Historic Annapolis • FEMA • Four Rivers Heritage Area • MD Emergency Management Agency • MD Dept. of Natural Resources • MD Dept. of the Environment • Maryland Historical Trust • National League of Cities • NOAA • National Park Service • National Trust for Historic Preservation • Newport Restoration Foundation • Preservation Maryland • ServPro • Union of Concerned Scientists • United States Naval Academy • United States Army Corps of Engineers • US ICOMOS • Urban Land Institute • VA Dept. of Historic Resources

Develop a “Core Team”
- Gov’t Agencies
- Preservation / Heritage Org.
- Cultural Institutions
- Business Associations - Main Street, Chamber, etc.
- Resident Associations
- Heritage Area
- Tourism / Hospitality
- Environmental
- Maritime
- Architecture / Engineering
- Archaeology
- Media
- Education
Weather It Together: Stakeholders
Organize Resources: Survey

PERSONNEL
City of Annapolis
- Historic Preservation Div.
  - Contract Historians/Architect
  - Information Technology - GIS
US Army Corps of Engineers
- CRM Staff

FUNDING
Maryland Historical Trust
Preservation Maryland

PUBLIC ENGAGEMENT
Letters to Property Owners
Core Team Monthly Mtg.
Presentations
- Historic Preservation Commission
- Rotary
- Main Street
- Resident Association
Weather It Together
Identify Hazards & Assess Losses

PERSONNEL
City of Annapolis
- Historic Preservation Div.
  - Contract Architect
- Information Technology - GIS
US Army Corps of Engineers
- Flood Management Staff

FUNDING
National Trust for Historic Preservation
MD Dept. of Natural Resources / NOAA

PUBLIC ENGAGEMENT
Core Team Monthly Mtg.
Town Hall Presentations
- Historic Preservation Commission
- City Council
- Main Street & Chamber of Commerce
- Resident Association
- MD Climate Change Work Group
## Weather It Together

Set Priorities: Community Value

### PERSONNEL

City of Annapolis
- Historic Preservation Div.
- Contract WIT Team
  - Planner, Architect, Community Relations, Engineer
- Information Technology – GIS
- Office of Emergency Mgmt.
- Dept. of Public Works

US Army Corps of Engineers

Historic Annapolis

Maryland Historical Trust

### FUNDING

National Trust for Historic Preservation

MD Dept. of Natural Resources/NOAA

### PUBLIC ENGAGEMENT

Core Team Monthly Mtg.

What’s Your View Workshops

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<th>Name and Address of Asset Subject to Hazard (same as previous page)</th>
<th>MHT Inventory Number (AA#)</th>
<th>Date of Construction</th>
<th>Type of Property</th>
<th>Type of Resource</th>
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Weather It Together
Engage the Public

Monthly Core Team meeting
• Topic-based speakers
• Planning updates
• Goal setting
• Focus groups

Online Survey
Trade Show Exhibit
Town Hall / Open House
Lectures / Workshops
Editorial Board / Media
Student Contests / Activities
Social Media / Website
Tours
Charrette
Conference - KHAW
In the past 3 years, Annapolis has leveraged $106,500 in City funds to secure private & public funds and in-kind support totaling $1,536,500. This support funded:

• Education & public outreach (branding, visual preference survey, town hall, guest lectures, design charrette & social media)
• Historic survey / vulnerability assessment
  ▪ Elevation surveys & model mitigation strategies
  ▪ GIS subscription & training
  ▪ Cultural resource hazard mitigation plan
  ▪ Keeping History Above Water Conference
  ▪ FEMA Workshops
  ▪ Design for Stormwater / Floodplain Management
Weather It Together
Write the Plan

PERSONNEL
City of Annapolis
• Historic Preservation Div.
  • Contract WIT Team - Planner, Architect, Community Relations, Engineer
• Information Technology – GIS
• Office of Emergency Mgmt.
• Dept. of Public Works

FUNDING
MEMA / FEMA
US Army Corps of Engineers
• Flood Mitigation Staff – Cost Estimating

PUBLIC ENGAGEMENT
Online Survey
Open House & Forum
Keeping History Above Water Conference

$1M budgeted to fight city flooding
The City of Annapolis will survive and thrive by building resilience and adapting to rising sea level and natural hazards that threaten our Capital City’s cultural and natural heritage.
Weather It Together
What are Our Goals?

Protect Annapolis’ historic character and economic vitality from flooding hazards by minimizing loss to structures, cost to stakeholders and impact on our economy.
Weather It Together

What Actions Will We Take?

- Build public awareness and engagement
- Align land use, economic development, environmental and regulatory activities to protect the City’s cultural, economic, and natural assets
- Develop a disaster response & recovery plan to Build Back Better
- Lead resilience efforts in flood adaptation and mitigation
- Finance public improvements and incentivize private investment for flooding adaptation
Weather It Together: Action
Build public awareness and engagement

- Develop and implement a public engagement and education program for Annapolis residents and business owners.
- Share best practices in adaption planning and implementation with other historic communities.
- Develop and conduct annual City staff training on flooding, risk reduction and disaster response.
WHAT PLACES MATTER MOST TO YOU?

Annapolis.gov/WeatherItTogether
Contact: lmcraig@Annapolis.gov

Date: Oct. 29 – Nov. 1, 2017
Location: Annapolis Waterfront Hotel
Pre-Register: HistoryAboveWater.org
Originally convened by the Newport Restoration Foundation in April 2016, Keeping History Above Water was one of the first national conversations to focus on the increasing and varied risks posed by sea level rise to historic coastal communities and their built environments.
Keeping History Above Water engages specialists from across the United States and the world to share experiences, examine risks, and discuss solutions with an emphasis on case studies and real world applications.
Keeping History Above Water: Annapolis will bring together hundreds of regional, national and international experts on issues ranging from environmental/earth science to preservation practices, from adaption for national security to disaster preparedness for flooding hazards.
Pre-register for early bird rates. For more information:
Lisa Craig – histpres@Annapolis.gov