

# A GREEN INFRASTRUCTURE PLAN FOR THE HAMPTON ROADS REGION

Presentation to the Hampton Roads Planning District Commission

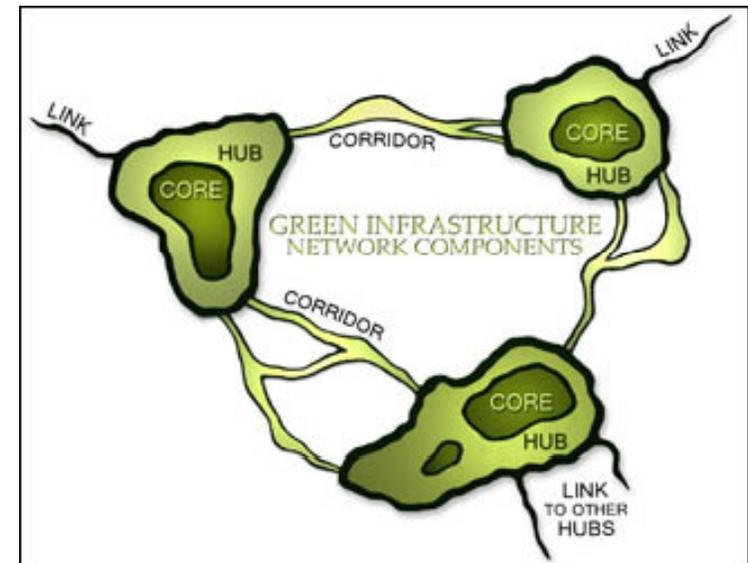
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# What is Green Infrastructure?

- Green infrastructure is strategically planned and managed networks of natural lands, working landscapes, and other open spaces that conserve ecosystem values and functions and provide associated benefits to human populations



Source: The Conservation Fund

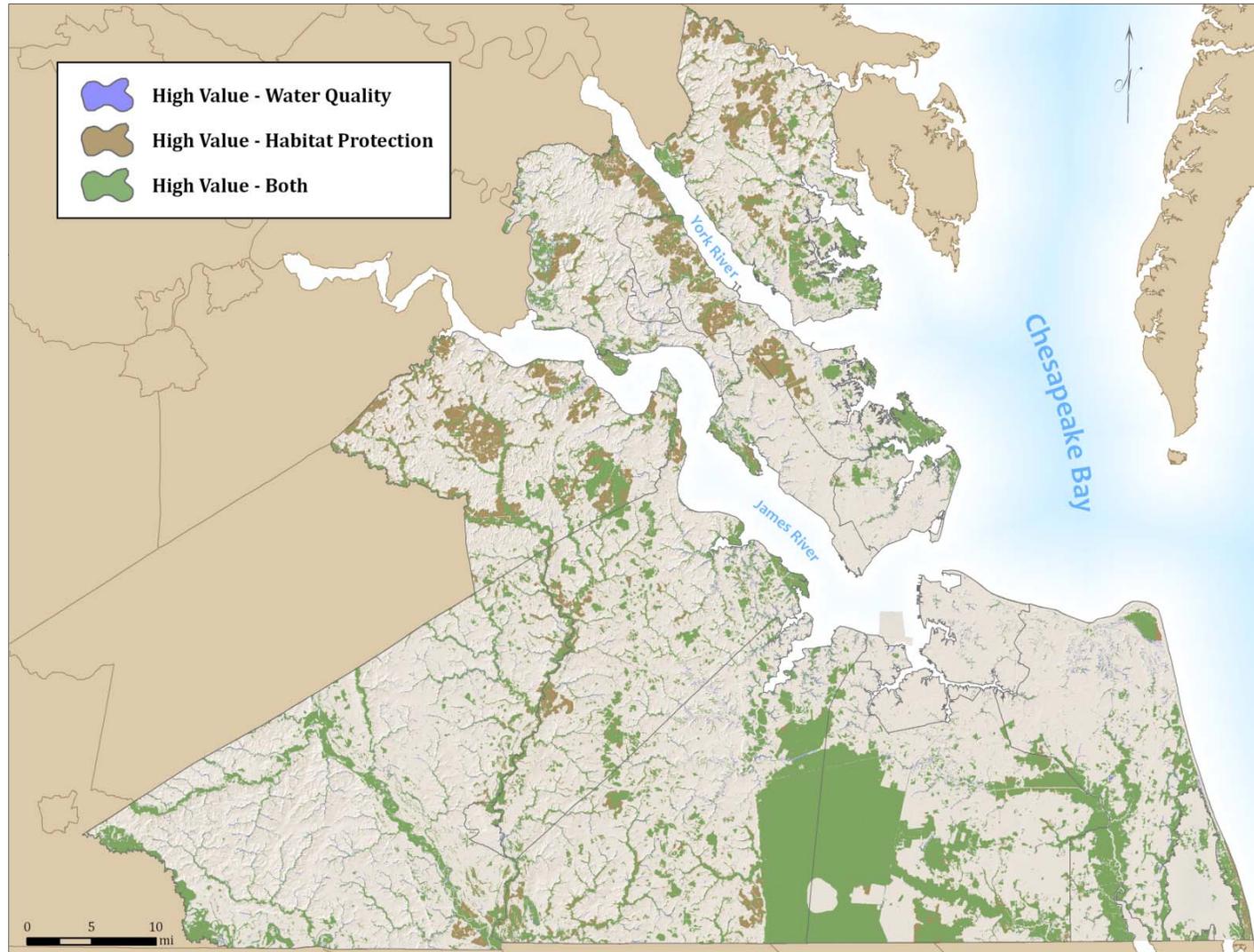


# Stakeholder Meetings

- Local Jurisdictions
- State Agencies
  - ▣ DCR
  - ▣ VDGIF
  - ▣ VIMS
- Joint Environmental Committee



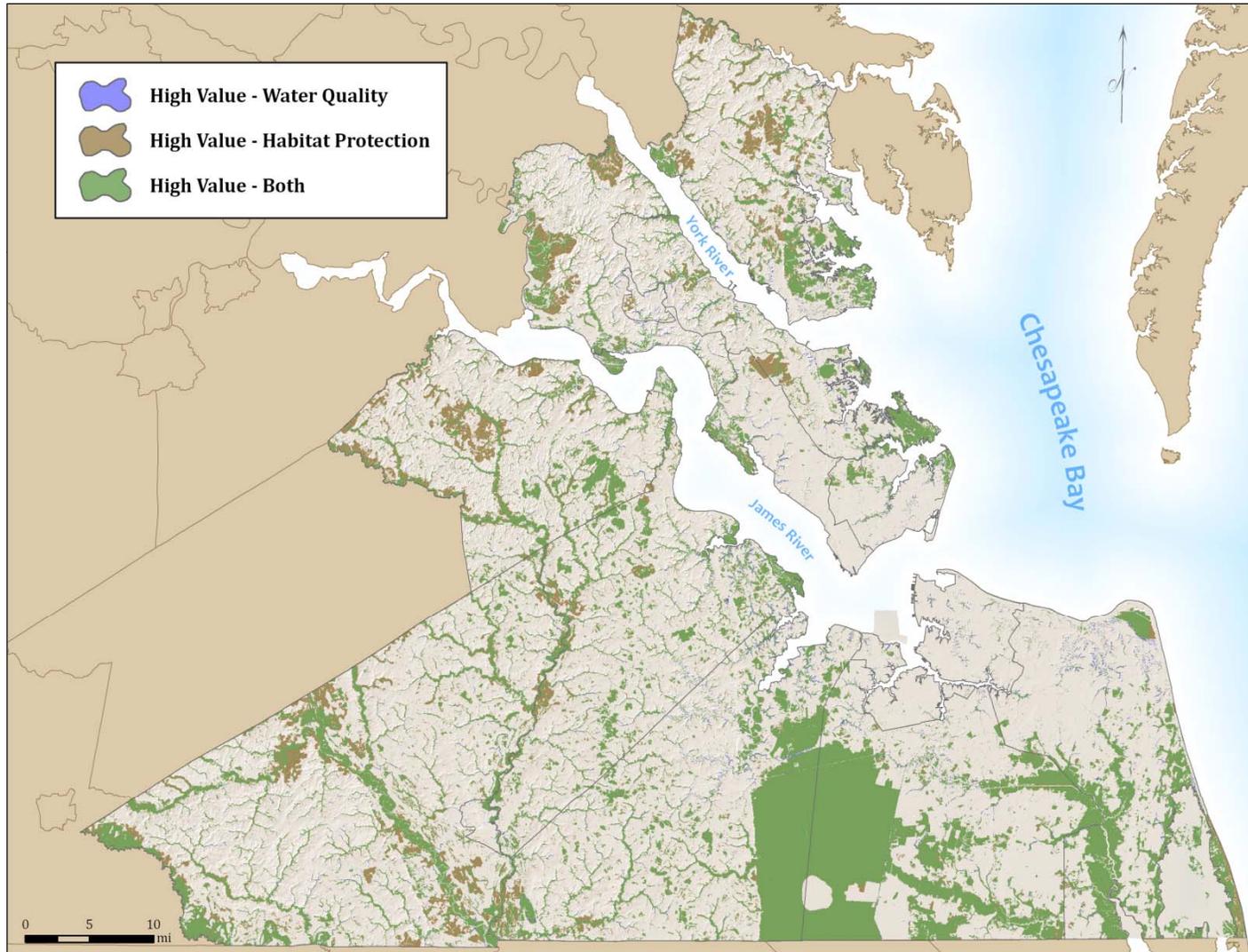
# Green Infrastructure Network Update



2006



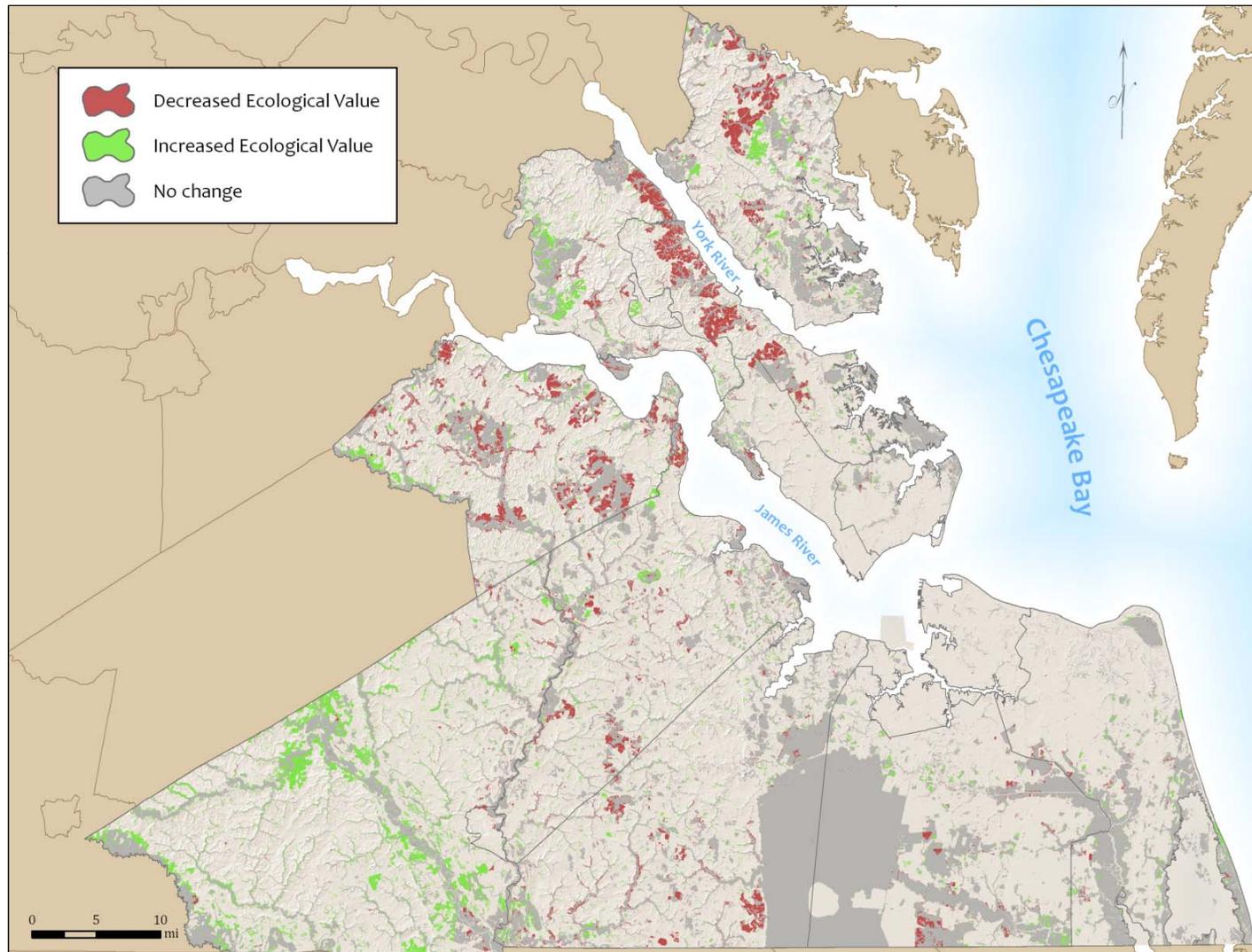
# Green Infrastructure Network Update



2010



# Change in the GI Network

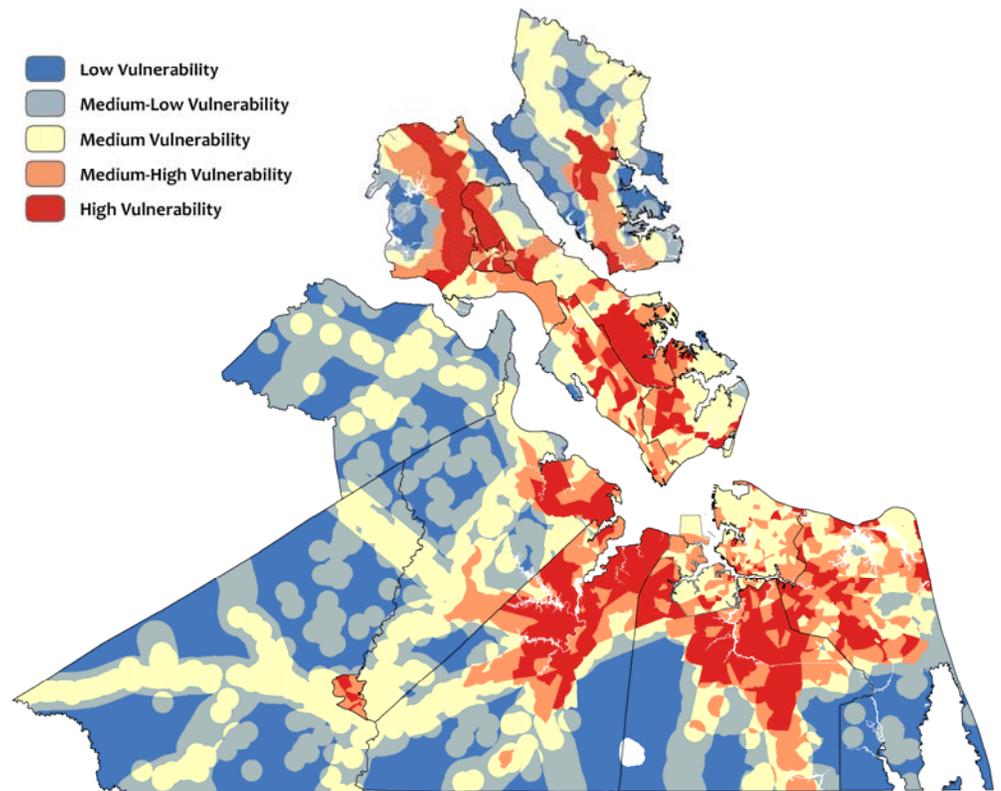


**Change  
2006 – 2010**

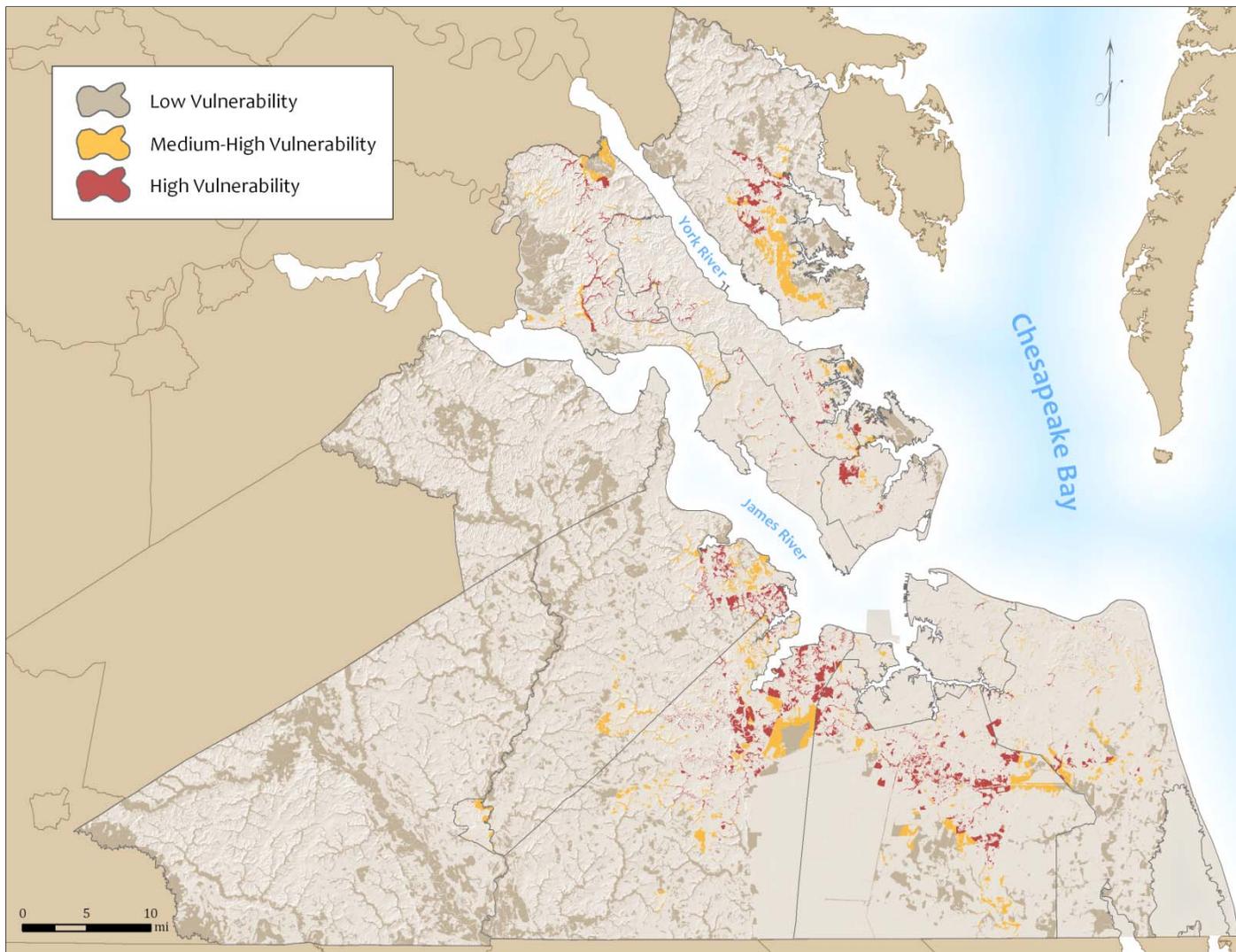


# Vulnerability to Development

- A simple model to identify areas in Hampton Roads likely to experience growth
- Use results to identify which areas of green infrastructure network are most at risk to development



# Vulnerable Green Infrastructure

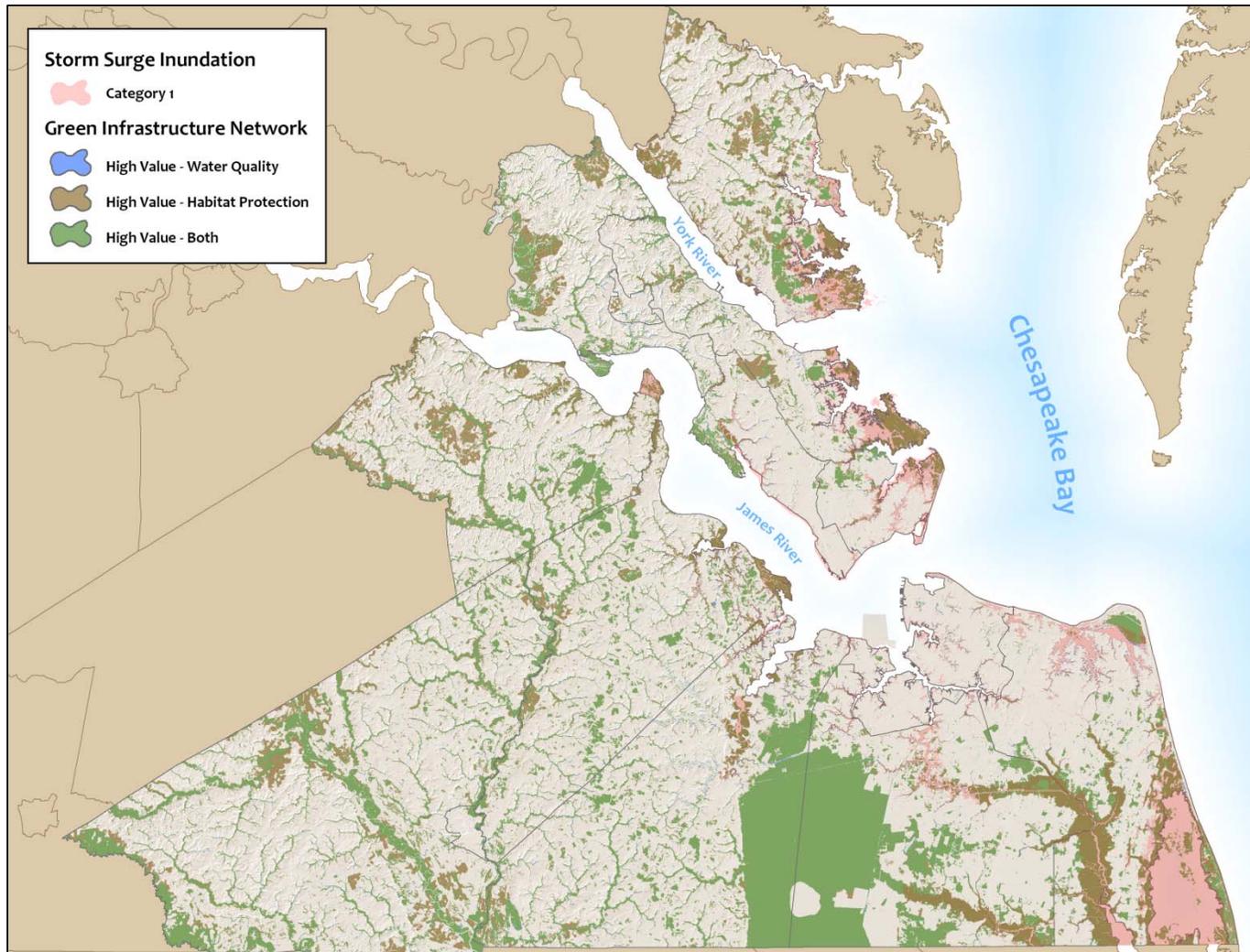




# Sea Level Rise & Green Infrastructure

- Detrimental impacts on the natural system
  - ▣ Sea level rise will cause fragmentation and loss of wetlands
  - ▣ Erosion and storm surge will also affect adjacent uplands
- Green infrastructure as a planning tool
  - ▣ Keep remaining wetlands intact and clustered
  - ▣ Green infrastructure network differentiates between those areas to be protected and those that can be developed

# Sea Level Rise & Green Infrastructure



# Applications for Green Infrastructure Planning

## Conservation Goals

Habitat Protection

Water Quality Protection

## Parks, Recreation & Open Space Planning

Prioritize new land acquisitions

Build connecting trails

Purchase of Development Rights

Agricultural Preservation

## Regulatory Compliance

Stormwater Regulations

TMDL Implementation Planning

Wetlands Mitigation

Comprehensive Plans

## Other Planning Goals

Buffering Military Facilities from Encroachment

Locating Urban Development Areas

Buffering of Incompatible Uses

Planning for Sea Level Rise



