

# COASTAL RESILIENCE SUMMARY

## CITY OF ALEXANDRIA, VIRGINIA

### Natural and Nature-Based Features (NNBFs)

Forests, trees, wetlands, beaches, and living shorelines benefit communities by reducing storm wave energy, soaking up floodwaters, improving water quality, providing areas for recreation, creating habitats for important plants and animals, and even lowering flood insurance costs. These **Natural and Nature-Based Features (NNBFs)** have been mapped for areas that are less than 10-feet in elevation, experience tidal and storm flooding, and include buildings at risk. *(All numbers are approximate.)*



MAP: Alexandria coastal areas less than 10-ft elevation, with targets for new NNBFs

#### NNBFs in Alexandria Coastal Areas

**114 acres** All Coastal NNBFs, including:



**34 acres** Forested Wetland



**32 acres** Emergent Wetland



**32 acres** Wooded



**15 acres** Tidal Marsh



**<1 miles** Hybrid Living Shorelines

Visit [www.AdaptVA.org](http://www.AdaptVA.org) to view all coastal NNBFs

#### Benefits of NNBFs in Alexandria



**28 acres** of NNBFs that decrease flooding risks for buildings



**114 acres** of NNBFs that improve water quality by reducing sediment, nitrogen, and phosphorus



**112 acres** of NNBFs potentially eligible for FEMA Community Rating System credits (100-ft RPA buffer and wetlands located within 100-year flood zones)

#### Coastal Area Facts

for areas less than 10-ft elevation

**4%** of Alexandria area (346 acres)

**232** coastal buildings

**0** critical facilities

**74** coastal buildings without NNBF benefits

**9** targets for new NNBFs

#### Chesapeake Bay RPA 100-ft Buffer Overview

across all of City of Alexandria

**589 acres** of RPA buffer

**109 acres** of RPA buffer currently turfgrass potentially eligible for water quality credits if converted into NNBF



To learn more: [www.vims.edu/ccrm/nbf](http://www.vims.edu/ccrm/nbf)