

# UPDATE ON THE U.S. ARMY CORPS OF ENGINEERS FLOOD STUDIES

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*Chief, Flood Plain Management Section*

19 August 2019



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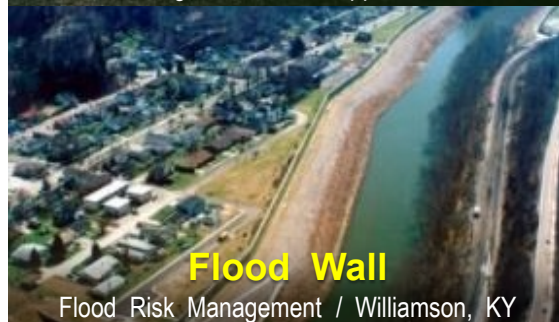






**Lock and Dam 15**

Navigation / Mississippi River



**Flood Wall**

Flood Risk Management / Williamson, KY



**Florida Everglades**

Ecosystem Restoration / South Florida



**New Orleans, LA**

Flood Risk Management / HDRRS

**Deliver enduring and essential water resource solutions using effective transformation strategies.**

## Navigation

## Flood Risk Management

## Ecosystem Restoration and Infrastructure

## Recreation and Natural Resource Management

## Hydropower

## Regulatory

Wetlands and Waterways

## Water Supply

## Expenses

Includes ASA(CW)



**Dredge ESSAYONS**

Navigation / Coos Bay, OR



**Lake Seminole, GA**

Recreation / Mobile District



**Bonneville II Powerhouse**

Hydropower / Columbia River



**Washington Aqueduct**

Water Supply / Washington, DC

# UPDATES OVER THE PAST YEAR

- Norfolk Flood Risk Management Study: Signed Chief's Report
- Now have a Coastal Virginia Resilience Study Authority: WRDA 2018
- Now have a Tangier Island Resilience Study Authority: WRDA 2018
- Continue to pursue other flood risk studies within the Commonwealth
- Potential for funding through the FY19 Supplemental Appropriations



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# HOW TO ACCESS USACE CONSTRUCTION FUNDING



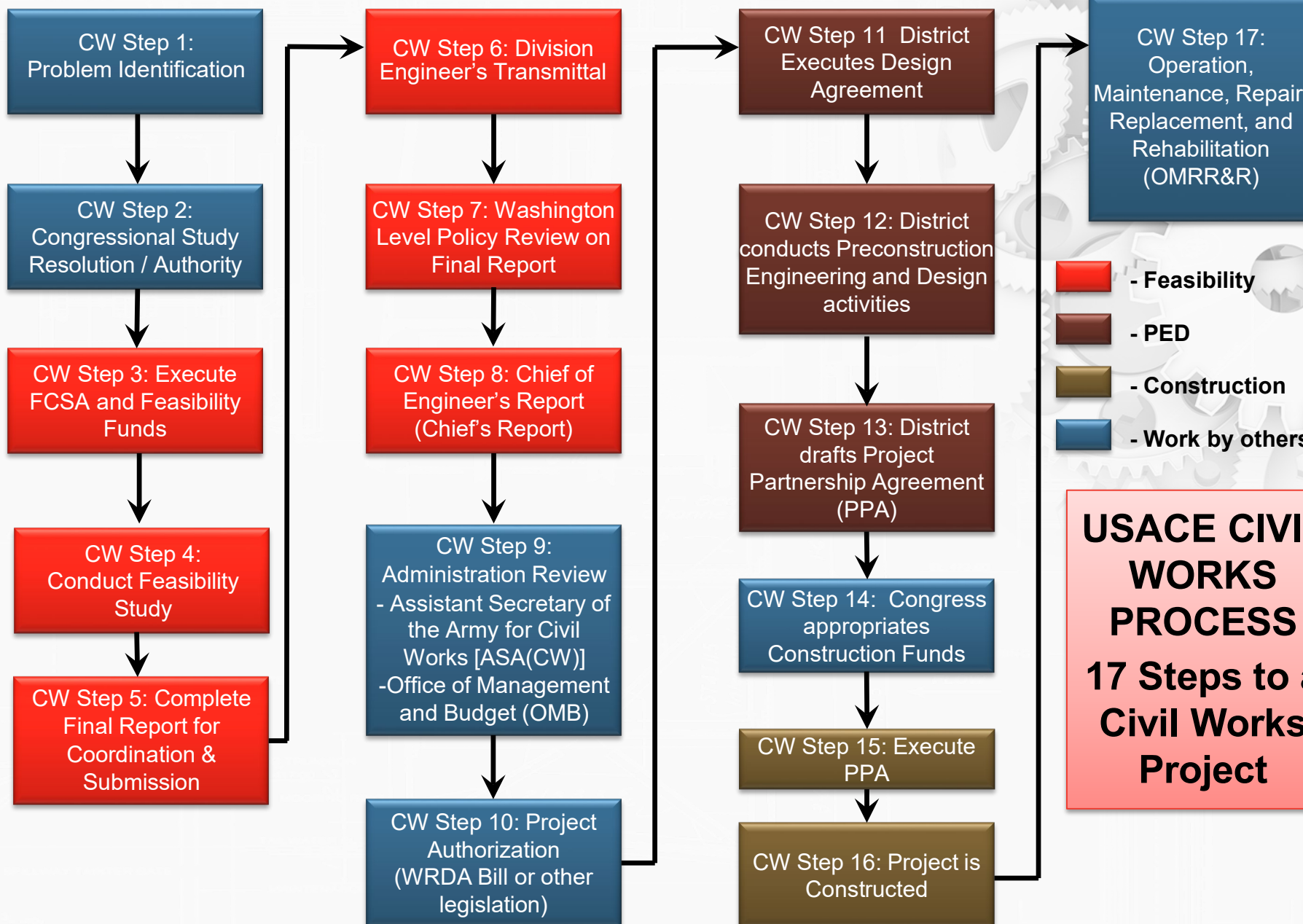
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- Must have:
  - Authorization (Study, then Construction)
  - Appropriations (Study, then Construction)
- Conduct studies, which:
  - Identify a Federal Interest in investment
  - Inform the Report of the Chief of Engineers to Congress
- Favorable Reports result in Construction Authorization from Congress
- Construction authorizations most often in Water Resource Development Acts (WRDA)
- WRDA 2018 anticipated later this year





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**USACE CIVIL  
WORKS  
PROCESS  
17 Steps to a  
Civil Works  
Project**



# USACE STUDIES



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- Focused Portfolio of Priority Feasibility Studies
- All Feasibility Studies expected to follow 3-3-3 Rule
  - ▶ 3 Year study duration
  - ▶ \$3 Million maximum per study cost
  - ▶ Vertical team integration at 3 command levels (District, Division, HQUSACE)
  - ▶ Exemption process for very large, complex studies that cannot meet the 3- year and/or \$3 million policy
- Feasibility Cost Sharing Agreement (FCSA) is first step
- Goal of Study: USACE Recommendation based on Benefit Cost Ratio (BCR)





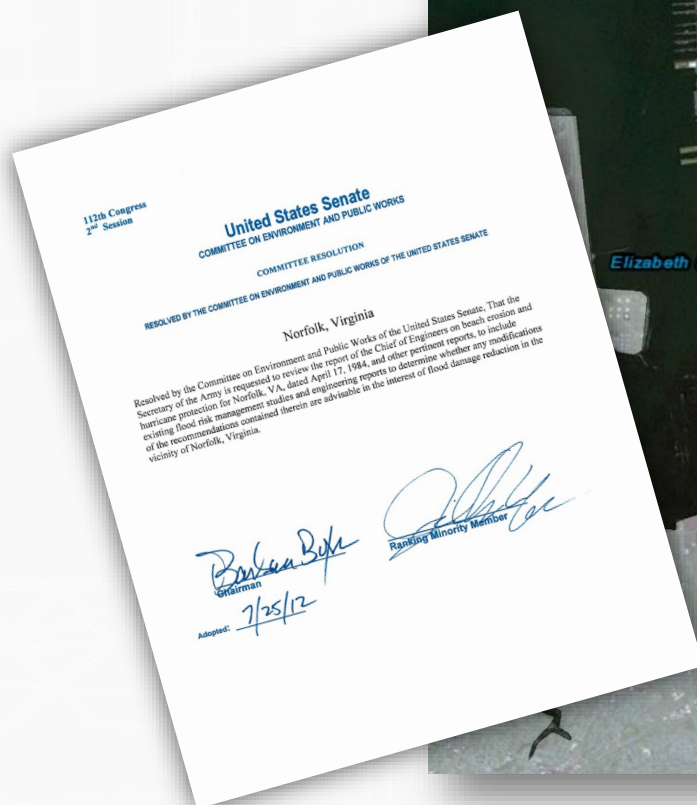
# NORFOLK COASTAL STORM RISK MANAGEMENT STUDY



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Hyunsoo Leo Kim / The Virginian-Pilot





## NORFOLK IS A GLOBAL LEADER IN URBAN RESILIENCE

- One of the first Rockefeller Foundation Resilient Cities
  - 3<sup>rd</sup> City to Launch a citywide resilience strategy—Oct. 2015
- Adopted Citywide Green Infrastructure Master Plan
- Adopted Zoning Code to support Resilience
- Retain Your Rain program to incentivize private property stormwater retention

POC Niklas Hallberg 757- 201-7728

## GLOBAL SECURITY HUB

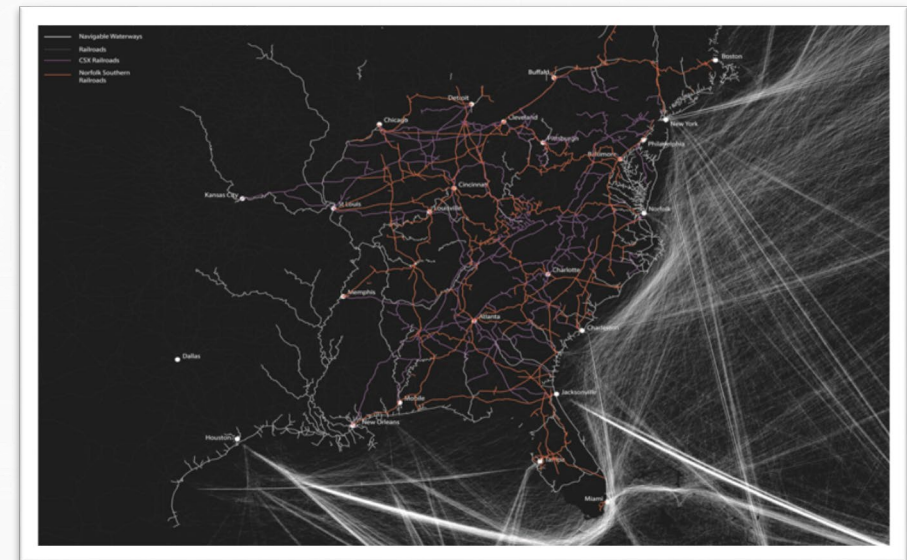
- Home to Naval Station Norfolk (World's Largest Naval Station)
- NATO's North American Headquarters
- 12.4 miles of waterfront
- 6,200 acres with special areas
- 46,000 military assigned on ships and ashore
- 21,000 civilian government employees and contractors



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## INTERNATIONAL TRADING NEXUS

- Port of Virginia supplies the eastern third of the nation







# NED/Recommended Plan



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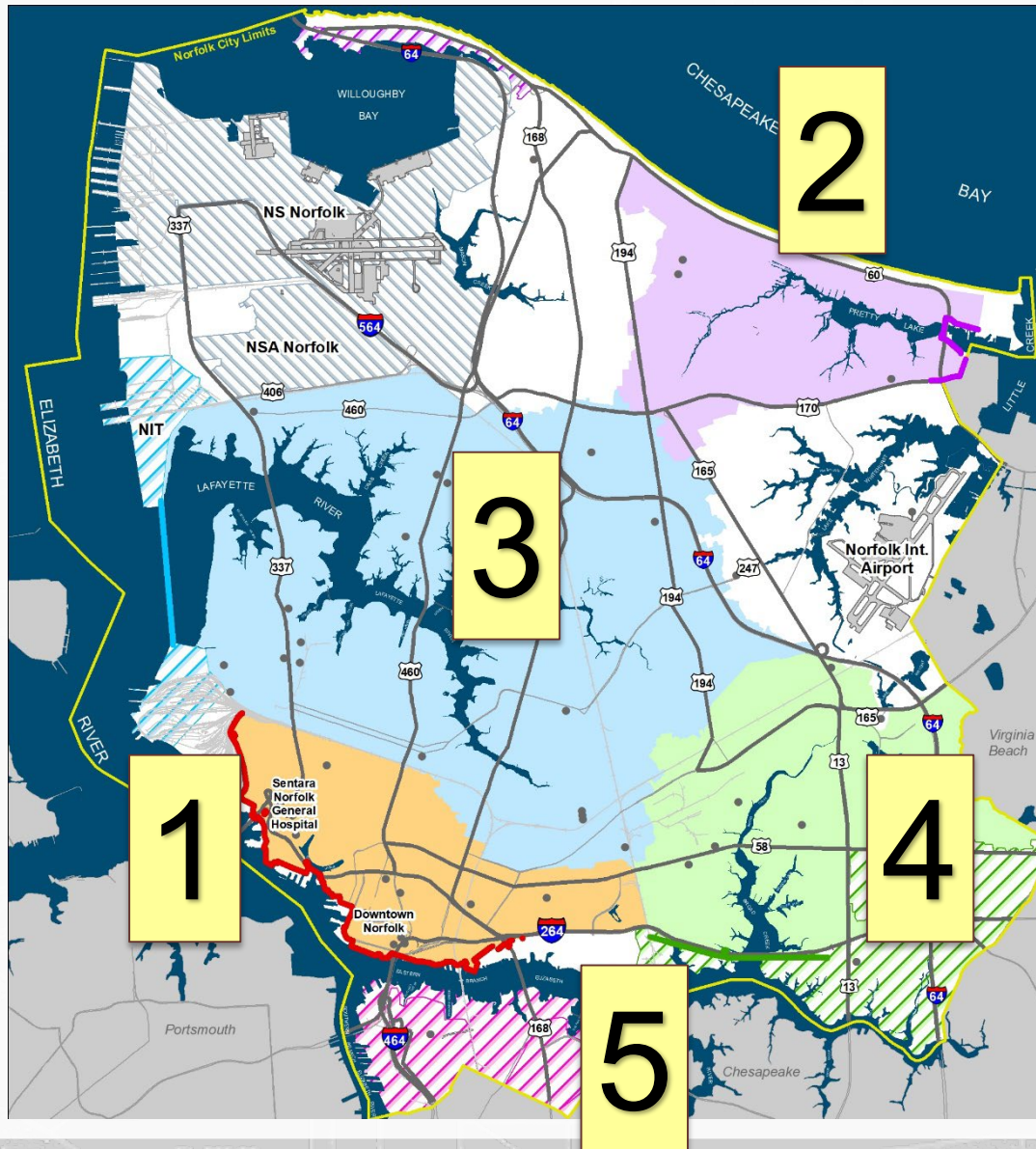




# PROJECT IMPLEMENTATION: CONSTRUCTION SEQUENCING



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1 Downtown Area

2 Pretty Lake Area

3 Lafayette River Area

4 Broad Creek Area

5 Campostella/Berkley Area





# STATUS OF NORFOLK CSRM



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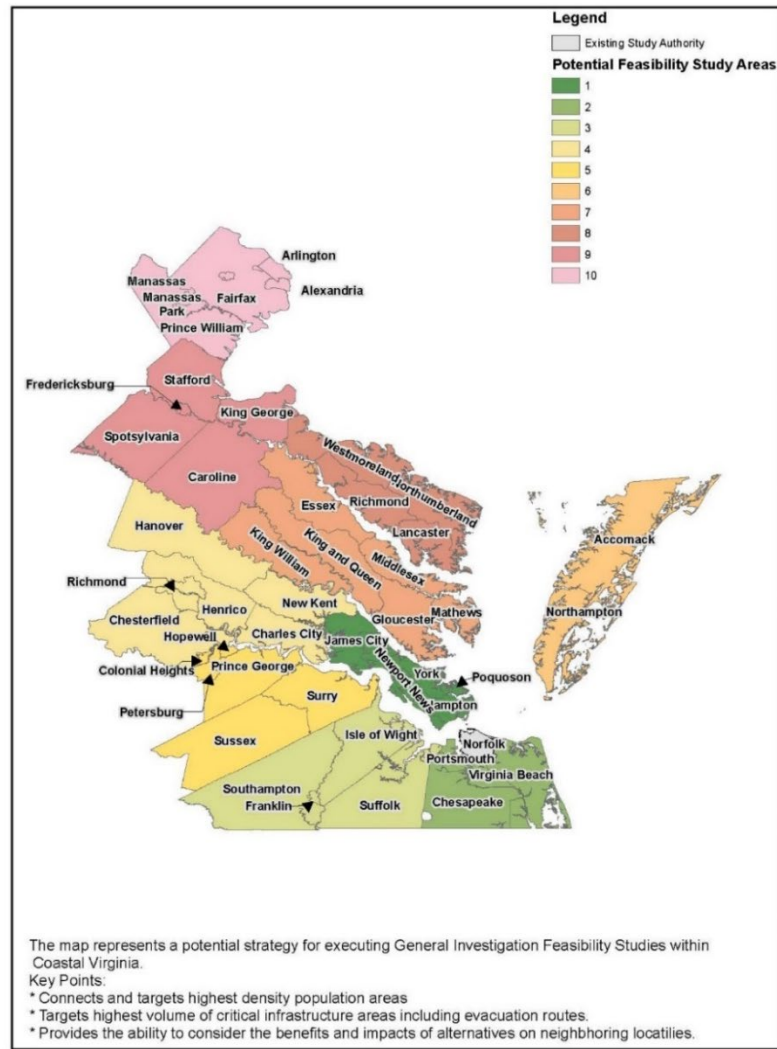
- Signed Chief's Report in Feb 2019
- Chief's Report to Congress (2019)  
(Requires Clearance from Administration)
- Construction Authorization (Future WRDA)
- Construction New Start Appropriations
- Preconstruction Engineering and Design
- Construction



# MULTI-JURISDICTIONAL RESILIENCY STRATEGY



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- Norfolk Flood Risk Management Study: moving into Preconstruction, Engineer and Design
- Now have a Coastal Virginia Resilience Study Authority –WRDA 2018
- Proposed Virginia Peninsula Coastal Storm Risk Management Study
- Proposed Virginia Beach Regional Study
- Proposed Chincoteague Study
- Subsequent studies in Coastal Virginia: proposed prioritization based on damages avoided to critical infrastructure
- Requires close alignment with Commonwealth to study resiliency alternatives





# HOW CAN THE COMMONWEALTH HELP?



- 1. Assist with Cost Sharing Challenges**
  - Scope beyond political jurisdictions of individual localities, Commonwealth could serve as Sponsor
  - Some localities may not have financial capability, but have a need
- 2. Provide Guidance/Vision on State-Level Priorities to Address Recurrent Flooding**
- 3. Continue to work with USACE on ways to allow localities to provide real estate interest in state bottom for USACE projects**





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# QUESTIONS?

*Chincoteague, Virginia*