

**VIRGINIA COASTAL
RESILIENCE
MASTER PLAN**
2021



Project Evaluation TAC Subcommittee

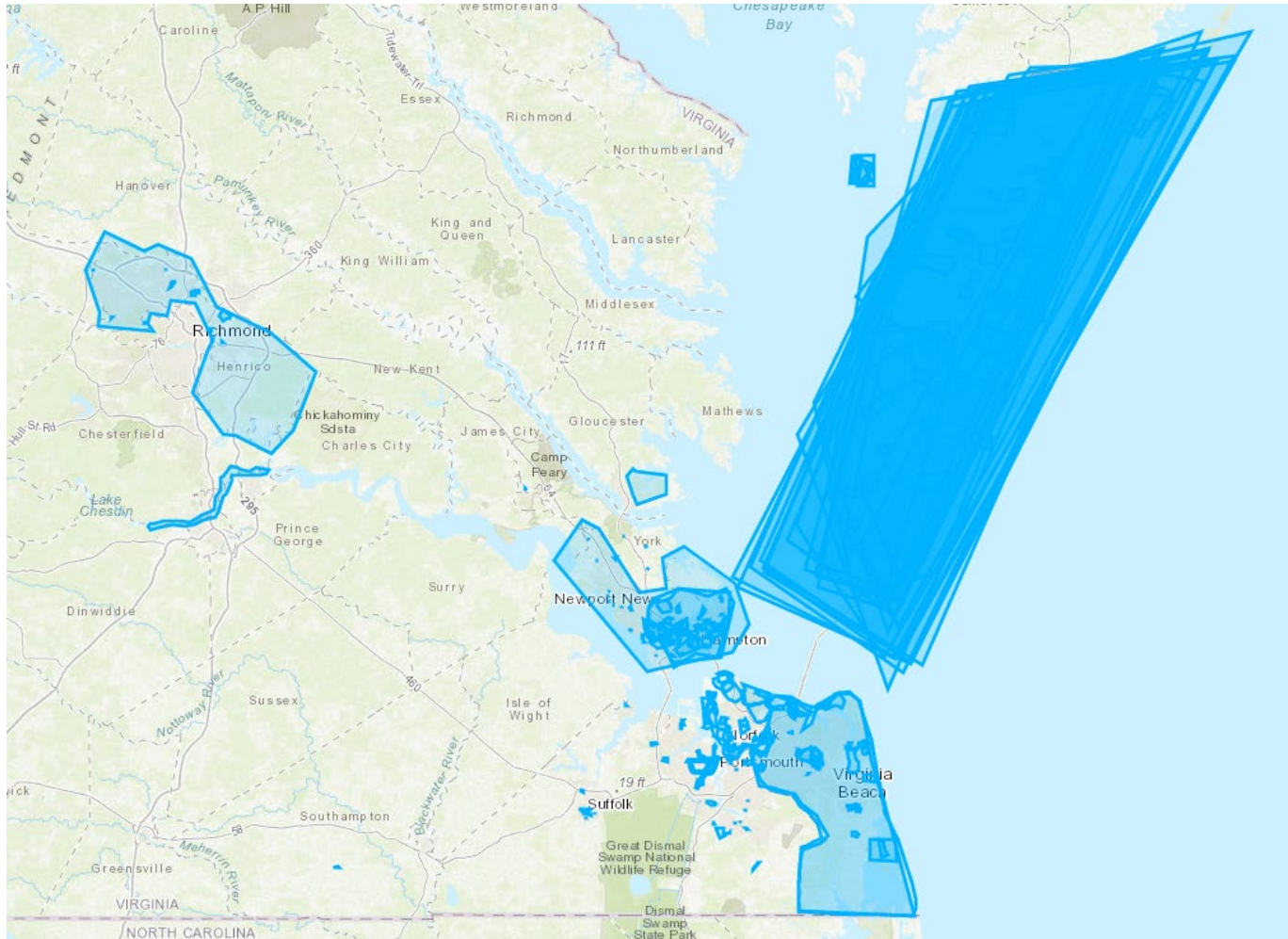
8/8/2021

Commonwealth of Virginia Working Document – Contents Considered Draft and Subject to Change

Project Data Call

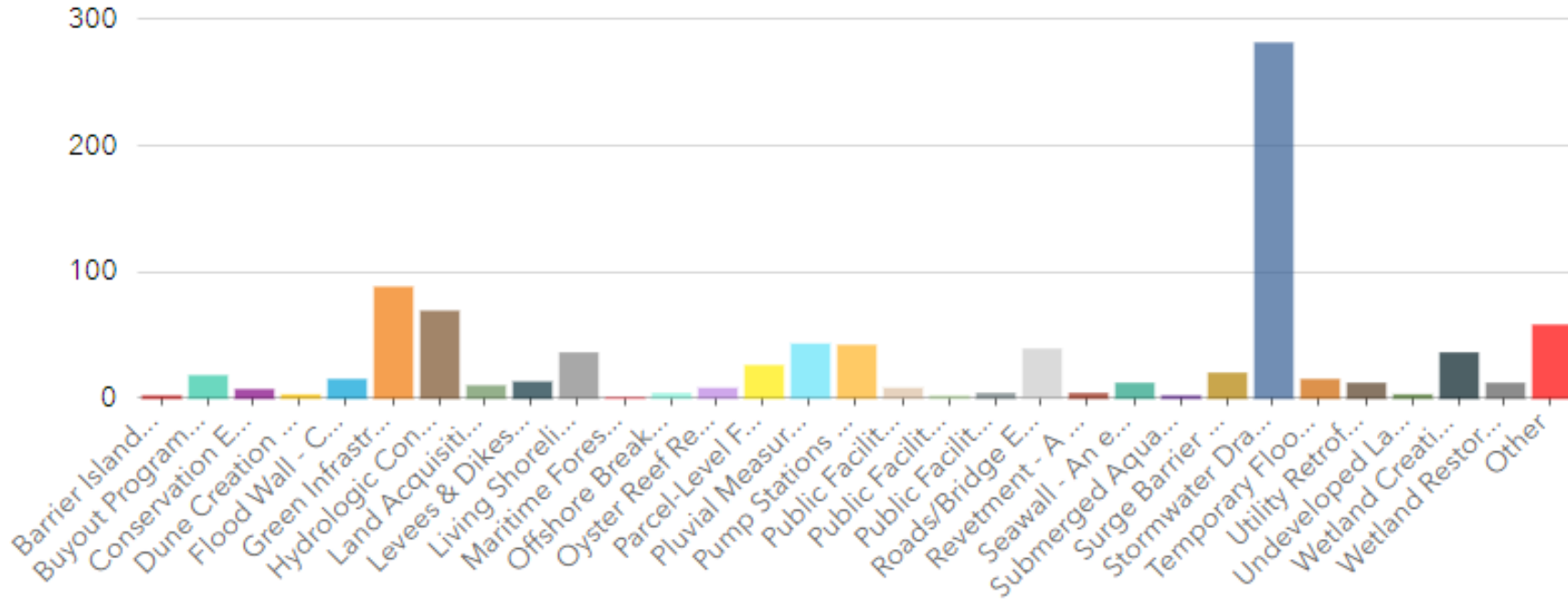
- **Data call will remain open through 8/13**
- **As of 8/8:**
 - 380 projects
- **Total Implementation Cost: \$3.579B**

Spatial Distribution



- **Missing:**
 - NOVA
 - GWRC
 - NNPDC
 - Most of MPPDC

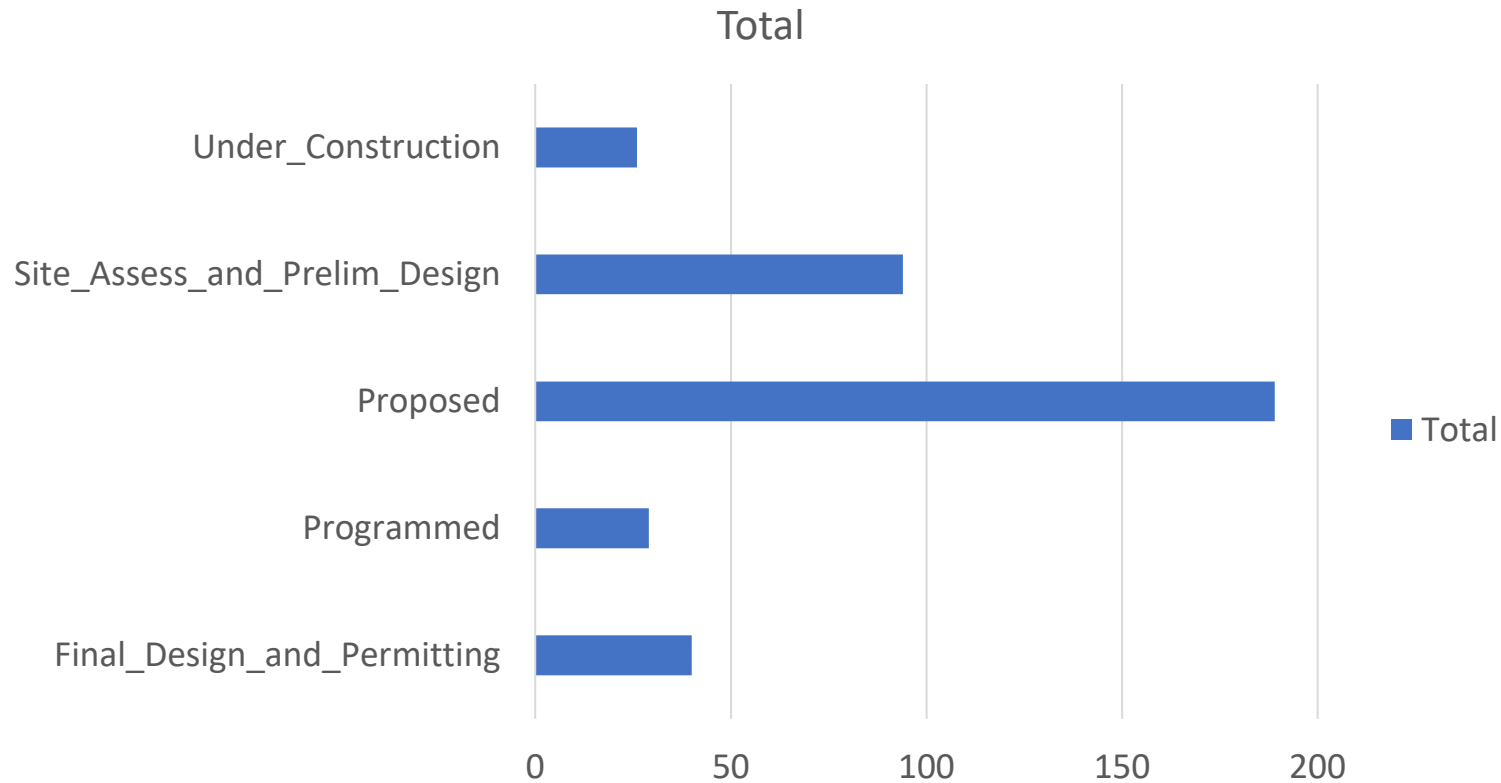
Types



Owners with Multiple Submissions

Row Labels	Count of Project Owner
Hampton	144
City of Virginia Beach	54
City of Norfolk	45
A-NPDC	22
Newport News	16
A-NPDC/Eastern Shore Regional Navigable Waterway Committee	12
Henrico County	12
City of Suffolk	10
Town of Onancock	6
County of York	4
Portsmouth	4
A-NPDC/ESRNWC	3
The Nature Conservancy	3
Town of Wachapreague	3
United States	3
Virginia Coast LTER	3
Chesapeake, Portsmouth	2
Northampton County	2
Town of Tangier	2
University of Pittsburgh at Johnstown	2

Project Status



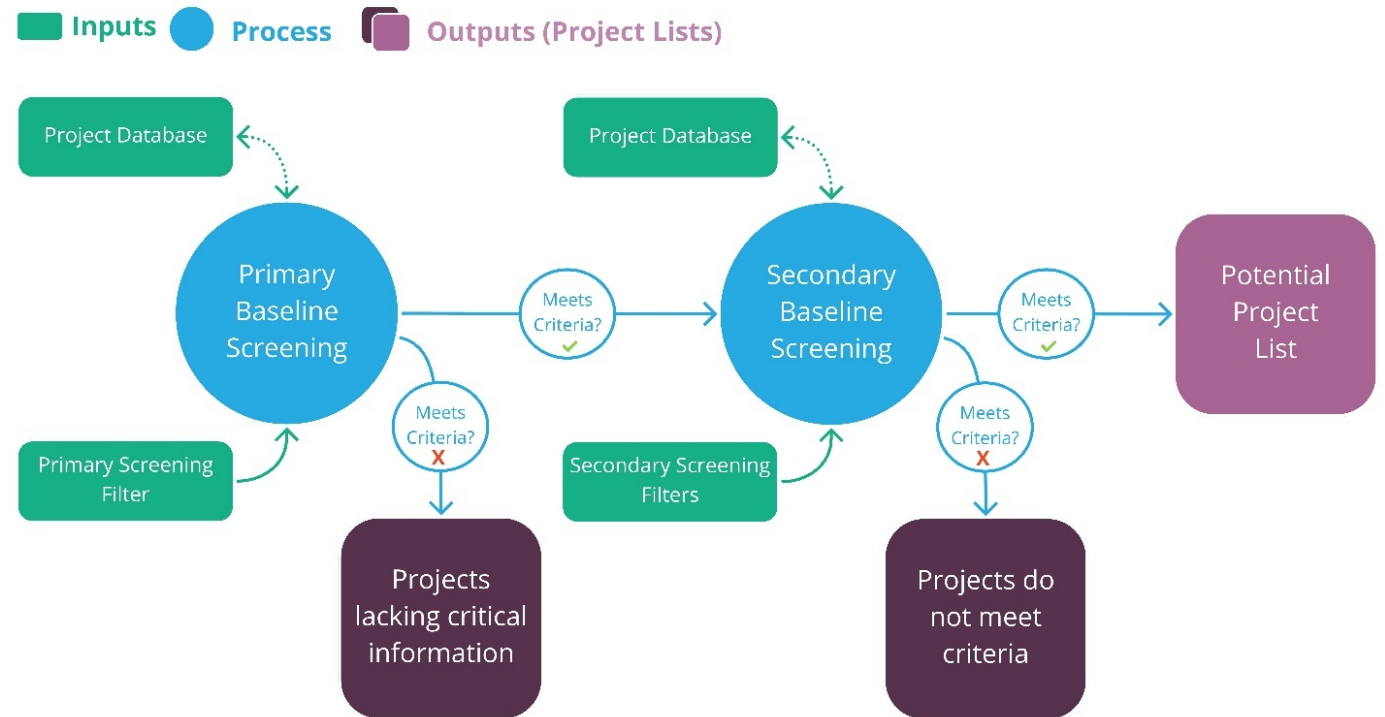
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Baseline Screening

Process

- **Primary Screening Filter:**
 - Removes projects lacking critical information.
- **Secondary Screening Filters:**
 - Remove projects that do not fall within the CRMP scope or are already being implemented.



Primary Screening

- **Screening Criteria:**
 - Does the project have the minimum information required to enable prioritization? The project passes if all the following questions are answered:
 - **Project Name**
 - a short, descriptive name that will distinguish it from other project proposals and indicate the project purpose.
 - **Project Description**
 - brief description of the project that states the scope and goals of the project and the expected outcome from the project and its relevance to the CRMP.
 - **Project Purpose and Need**
 - the types of flood hazards the project is intended to address, including tidal flooding, storm surge flooding, riverine flooding, rainfall-runoff flooding, and other associated hazards such as land degradation and groundwater impacts.
 - **Project Owner**
 - the locality, agency, entity, or person that will be responsible for implementing the project, regardless of land ownership.
 - **Project Subtypes**
 - the project subtypes that best characterize the project. Multiple subtypes can be selected, if appropriate.
 - **Project Footprint**
 - the approximate geographic footprint of the project. The footprint will depend on the type and scale of the project.
 - **Resilience Considerations**
 - the design standards used to account for future increases in coastal flooding due to sea level rise and future storms characteristics.
 - **Project Status**
 - the current (2021) status of the project.
 - **Scale of Benefits**
 - the estimated area predicted to benefit from an implemented project, provided by the project owner.

Type	Count
Stormwater_Flooding	155
Tidal_Flooding,Storm_Surge_Flooding,Stormwater_Flooding	70
Storm_Surge_Flooding	27
other	25
Tidal_Flooding,Storm_Surge_Flooding	20
Tidal_Flooding,Stormwater_Flooding	15
Shoreline_Erosion	12
Riverine_Flooding,Stormwater_Flooding,Shoreline_Erosion	9
Tidal_Flooding	7
Riverine_Flooding	6
Storm_Surge_Flooding,Stormwater_Flooding	6
Storm_Surge_Flooding,Riverine_Flooding,Stormwater_Flooding	3
Groundwater_Impacts	2
Riverine_Flooding,Stormwater_Flooding	2
Storm_Surge_Flooding,Shoreline_Erosion	2
Storm_Surge_Flooding,Stormwater_Flooding,Shoreline_Erosion	2
Stormwater_Flooding,Shoreline_Erosion	2
Tidal_Flooding,Storm_Surge_Flooding,Shoreline_Erosion	2
Riverine_Flooding,other	1
Riverine_Flooding,Shoreline_Erosion	1
Shoreline_Erosion,other	1
Tidal_Flooding,Riverine_Flooding,Shoreline_Erosion	1
Tidal_Flooding,Riverine_Flooding,Stormwater_Flooding	1
Tidal_Flooding,Riverine_Flooding,Stormwater_Flooding,Shoreline_Erosion	1
Tidal_Flooding,Shoreline_Erosion	1
Tidal_Flooding,Storm_Surge_Flooding,Stormwater_Flooding,Groundwater_Impacts	1
Tidal_Flooding,Storm_Surge_Flooding,Stormwater_Flooding,Shoreline_Erosion	1
Tidal_Flooding,Stormwater_Flooding,Groundwater_Impacts	1
Tidal_Flooding,Stormwater_Flooding,Shoreline_Erosion	1

Project Types

- Over half of “other” projects are dredging
 - Many are “needs assessment” for A-NPDC

Resilience Considerations

Future Condition Consideration	Count	%
CRMP_Scenarios,Rainfall_Scenarios	140	37%
CRMP_Scenarios	62	16%
CRMP_Scenarios,Local_Higher_Scenarios,Rainfall_Scenarios	54	4%
Rainfall_Scenarios	37	10%
No_Scenarios	35	9%
Local_Lower_Scenarios,Rainfall_Scenarios	26	7%
Local_Lower_Scenarios	17	4%
CRMP_Scenarios,Local_Higher_Scenarios	4	1%
Rainfall_Scenarios,No_Scenarios	2	1%
CRMP_Scenarios,Local_Higher_Scenarios,No_Scenarios	1	0%

Project Scale

- **Only 1 response, unsure why**
- **Post-meeting note: this field was replaced with another. We did find that all project submittals did include an entry for this field.**

In progress:

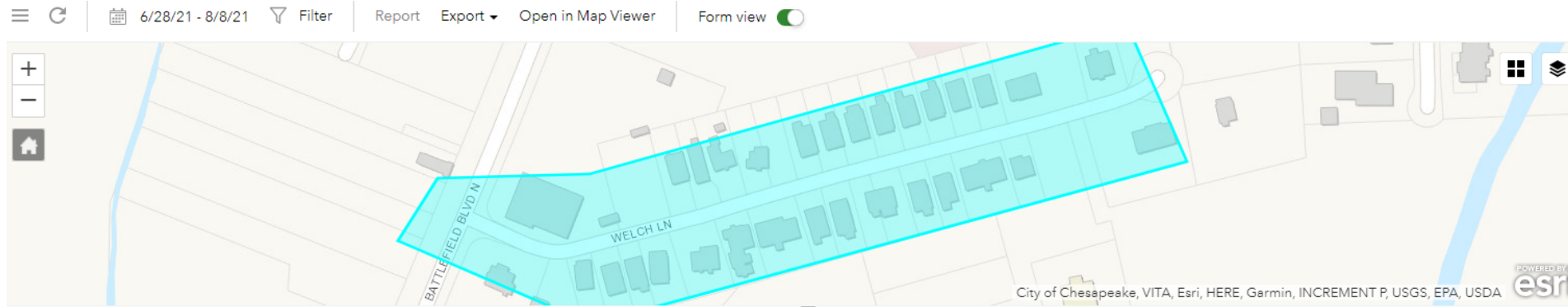
- **Descriptions**

- Reviewing to determine:
 - Appropriate for data call
 - Other fields consistent with description
 - Items that should be moved to Capacity Building

- **Project Footprints**

- Assess for consistency description, etc.

Project Footprints



Submitter Name	Submitter contact Info	Project Owner	Project Name	Related Initiative?	Description	Purpose and Need	Future Condition Considerations	Project Subtypes	Other Project Subtypes	Project Status
Crystal Bloom	cbloom@cityofchesapeake.net	City of Chesapeake	Welch_Lane_Drainage_Improvements	No	Provide a public stormwater system along Welch Lane and outfall upgrades to mitigate flooding issues.	Stormwater_Flooding	Local_Lower_Scenarios, No_Scenarios	Stormwater_Drainage_Improvement		Under Final Design and Permitting - Projects in this phase involve advancing conceptual or preliminary designs into final designs, developing detailed cost estimates, engaging the community, preparing permit applications and other related tasks to position projects for implementation.

Secondary Screening

- **Filter 1: Project Location within VA Coastal PDCs/RCs**
- **Filter 2: Project Status**
 - **Remove complete projects (no complete projects submitted)**

Status Type	Count of Project Status
Final_Design_and_Permitting	40
Programmed	29
Proposed	189
Site_Assess_and_Prelim_Design	94
Under_Construction*	26
Grand Total	378

**Note: under construction will remain in the database*

Secondary Screening

- ***Filter 3: Project Contribution to Coastal Resilience***
 - CRMP Framework projects defined as “improve the Commonwealth’s resilience and ability to adapt to rising seas, increased nuisance flooding, and more frequent and intense storms that result from climate change and threaten our coastal communities.”
 - This secondary screening filter removes projects that are not consistent with this definition.

Examples of Potential Screened Items

- This project will protect water resources and improve water quality by replacing maintained vegetation (lawns) with native trees, shrubs, and groundcovers.
- Conduct a Regional Dredging Needs Assessment for the Waterways on the Coast of Virginia (WCV) for Red Bank Creek to Hog Island Bay. This will include a beneficial use of dredged material assessment. We anticipate Part B of the application to be submitted to the Virginia Port Authority in fiscal year 2022.
- Dry hydrant for fire department to access creek water
- Demolish and remove abandoned and dangerous building - risk in high winds
- Generator for police station during power outage
- Mapping of change in ghost forests over time*

**Note: Example of a project that would be moved to Capacity Building*