



Edenton, NC RCCP Resilience Strategy

Public Meeting #1

January 16, 2023



Agenda

1. **Introductions**
2. **Project Overview**
3. **Hazards & Stressors**
4. **Asset Identification**
5. **Ways to Stay Involved**
6. **Questions and Discussion**



Introductions



Introductions

Community Action Team Point Person

Dewayne Whealton	Town Assistant Manager/Planning Director
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EDENTON
North Carolina

Consultant Team

David Stroud, CFM	WSP
Abby Moore, AICP, CFM	WSP
Ranger Ruffins	WSP
Garrett Shields, GISP, CFM	WSP



NC DEQ Division of Coastal Management Team

Mackenzie Todd	Coastal Resilience Specialist
Kasen Wally	Coastal Resilience Specialist

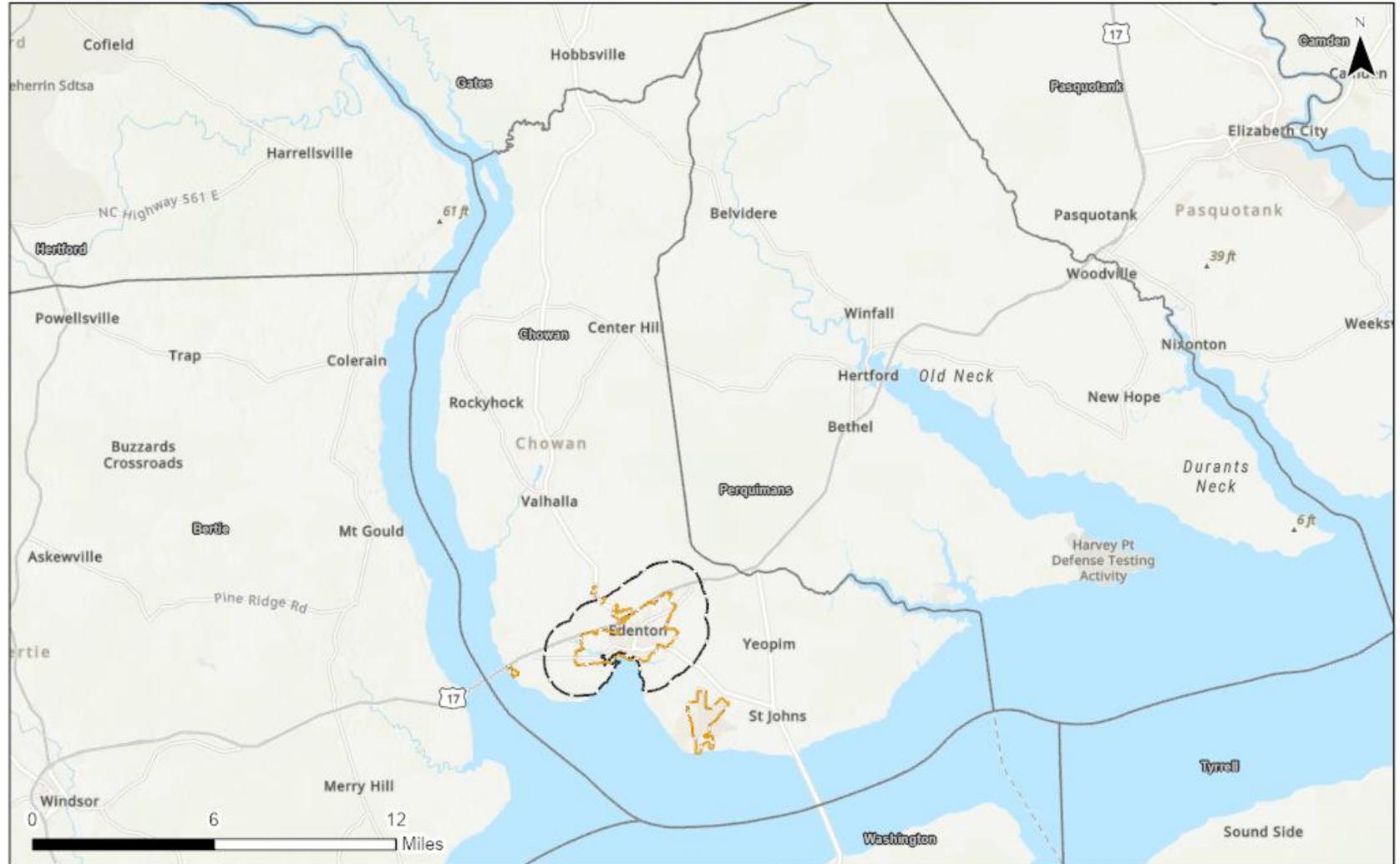


NORTH CAROLINA
Environmental Quality

Project Overview



Planning Area



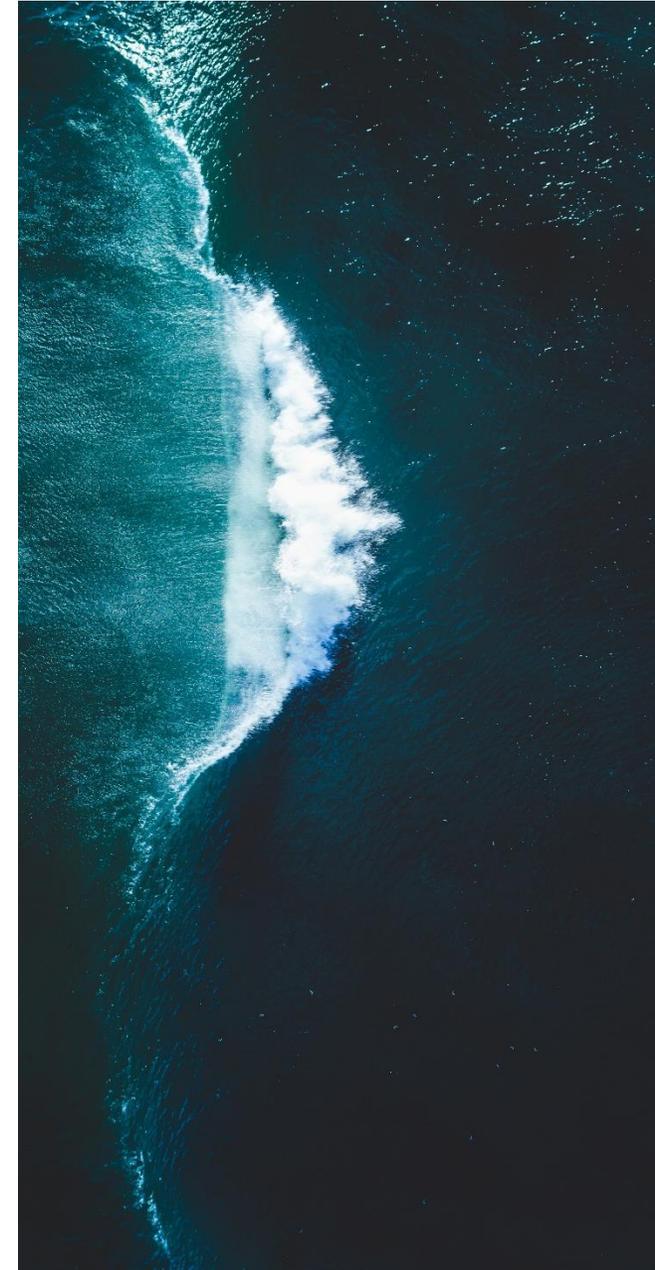
Town of Edenton, NC				Location Map	
	Scale: 1 in = 4 mi	Date: 10/17/2023	Source: Census, ESRI, Town of Edenton	Legend Town of Edenton Boundary County Boundary Town of Edenton ETJ	
	Note: This map is for reference only.	Prepared By: MC	Projection: NC State Plane (NAD83)		

Resilient Coastal Communities Program

Resilient Coastal Communities Program (RCCP) is a culmination of coastal resilience efforts in NC over several years

- Post Hurricane Matthew, 2016 – The Resilience Evaluation and Needs Assessment (RENA) project was piloted*
- Post Hurricane Florence, 2018 – Division of Coastal Management (DCM) created NC Coastal Community Resiliency Guide
- Executive Order 80, *2020 Climate Risk Assessment and Resilience Plan* & Resilient Communities Program – Created RCCP and RISE

*Edenton was a RENA Pilot community



Resilient Coastal Communities Program

- Focuses locally on 20 coastal counties under the Coastal Area Management Act (CAMA)
- Funded by the State of North Carolina and the National Fish and Wildlife Foundation's Emergency Coastal Resilience Fund
- Formalized planning process that supports communities in developing shovel-ready resilience projects.

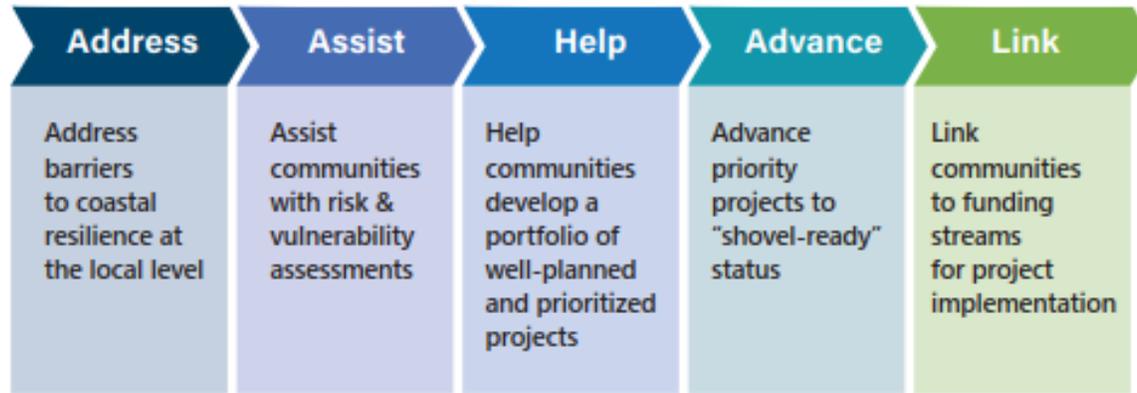
North Carolina

**RESILIENT
COASTAL
COMMUNITIES
PROGRAM**



Resilient Coastal Communities Program

Program Objectives



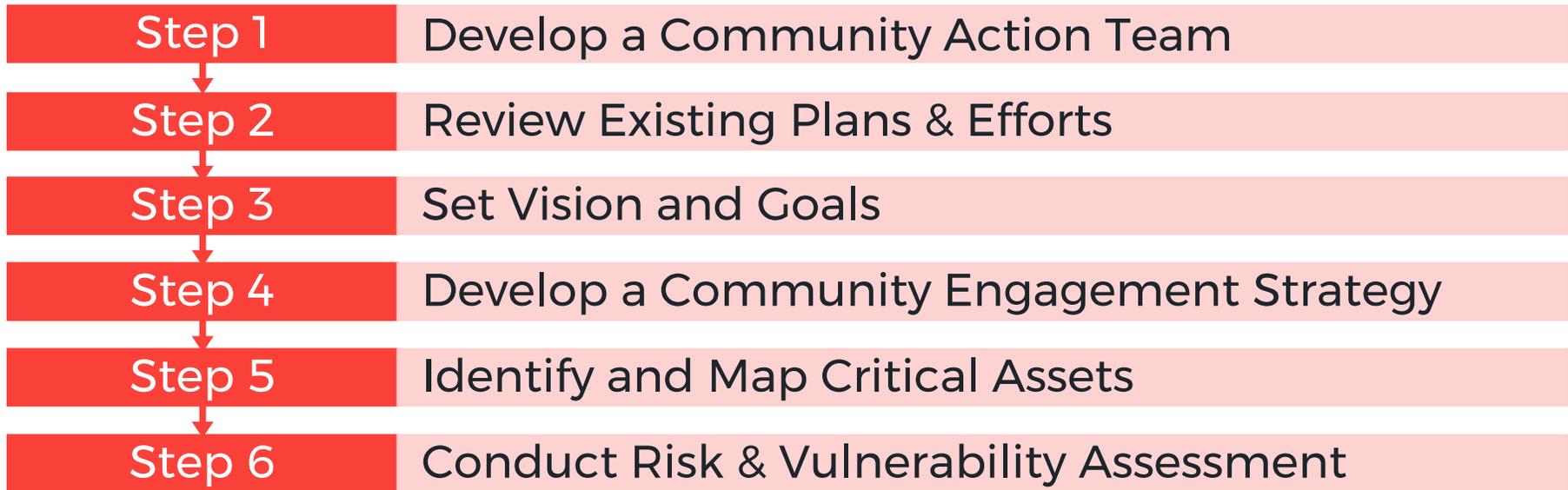
4 Phases Total

1. Community Engagement & Risk/Vulnerability Assessment ←
2. Planning, Project Identification, & Prioritization ←
3. Engineering & Design
4. Project Implementation

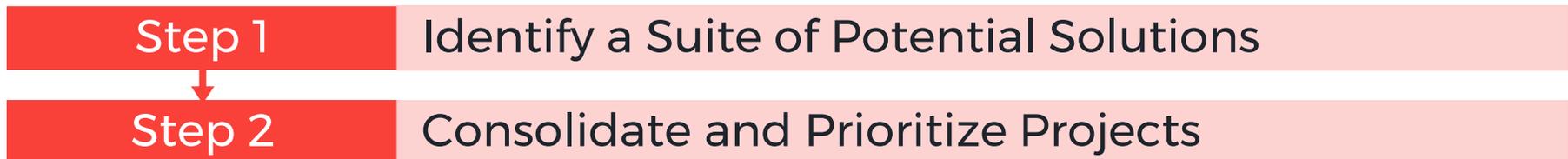
- **Phase 1:** Perform a risk and vulnerability assessment, develop a community action team, and engage with the public.
 - Deliverable: Vulnerability Assessment Report
- **Phase 2:** Develop community- and data-driven process to identify priority actions that can be taken to adapt to short- and long-term hazards.
 - Deliverable: Project Portfolio

Scope

Phase 1: Community Engagement & Risk/Vulnerability Assessment



Phase 2: Planning, Project Identification, and Prioritization



Hazards & Stressors



Flood Hazards

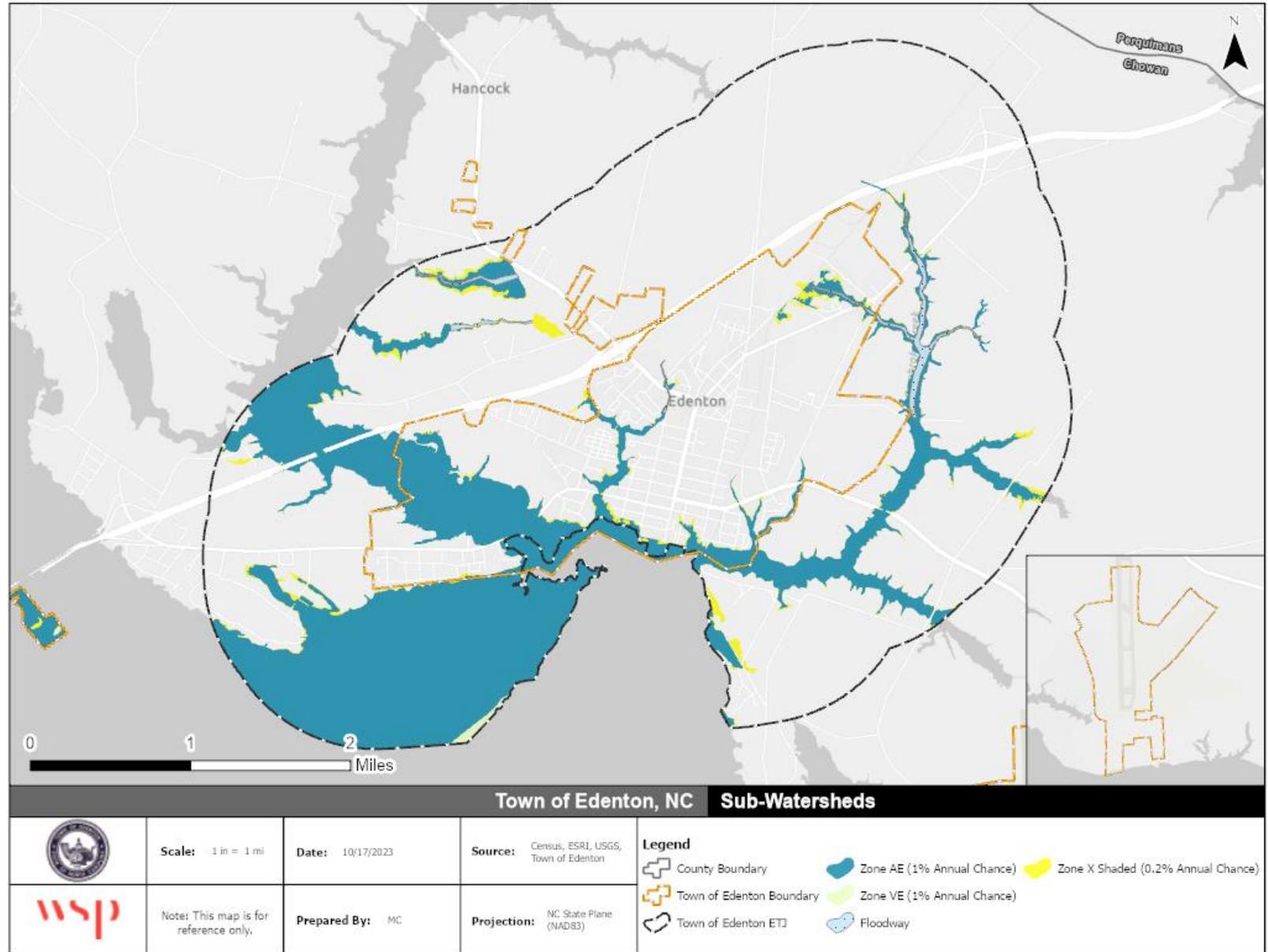
- Sea level rise
- Riverine flooding
- Stormwater flooding
- Storm surge
- Wind-driven tidal flooding
- Shoreline erosion

**Any additional hazards
that should be assessed?**

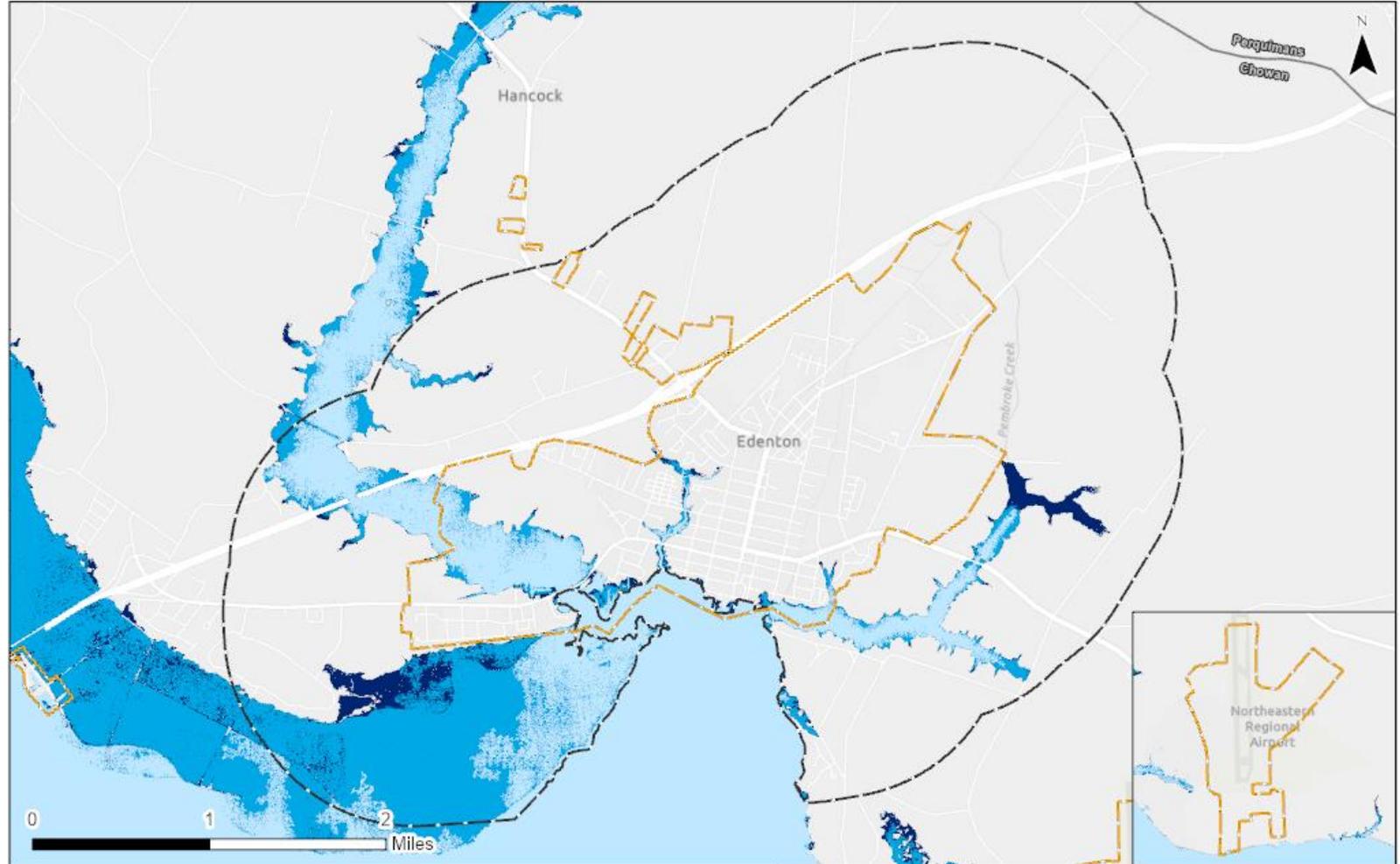


Riverine Flooding

- Localized Stormwater flooding problem areas need to be identified



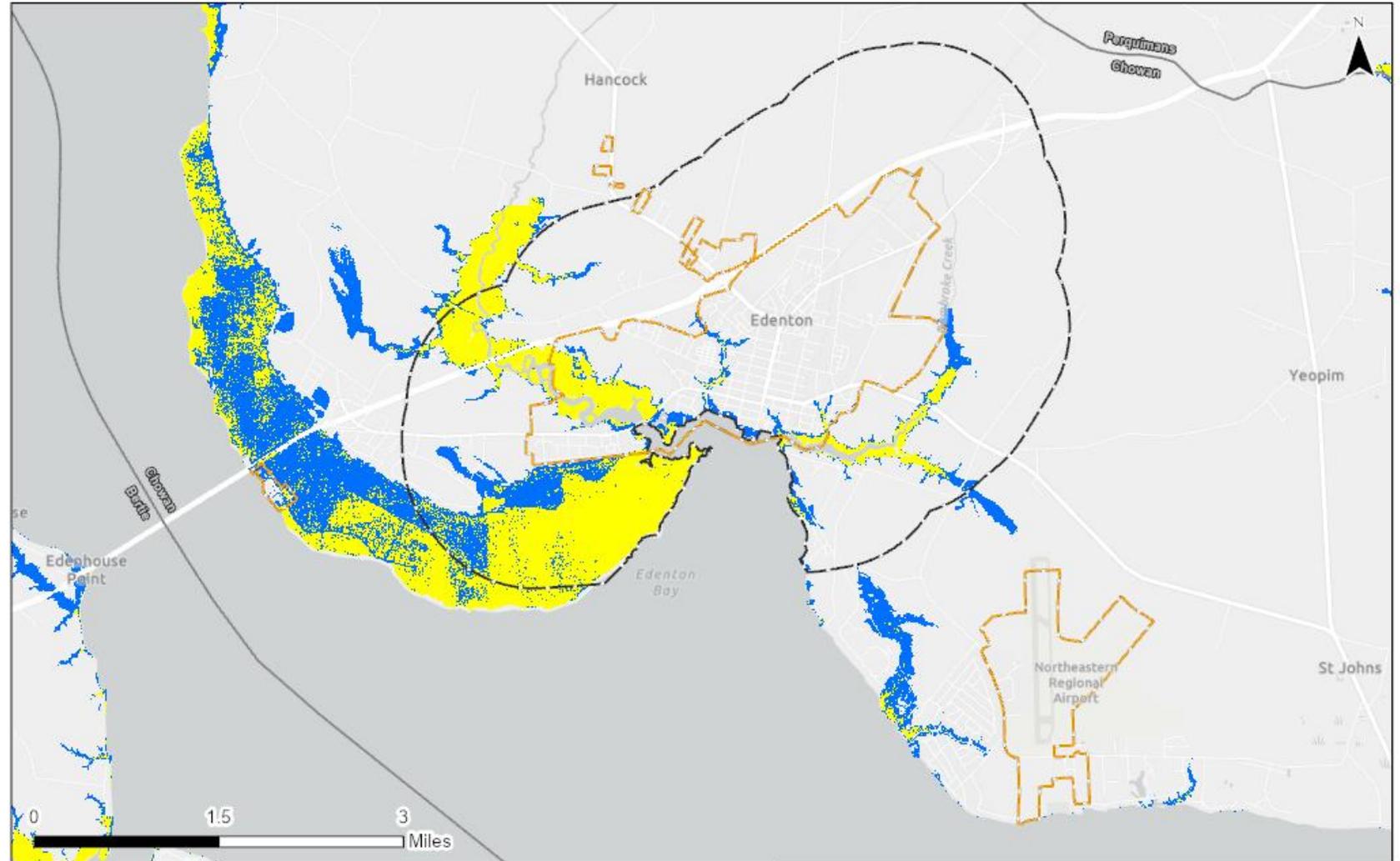
Sea Level Rise



Town of Edenton, NC				Sea Level Rise Extent	
	Scale: 1 in = 1 mi	Date: 10/17/2023	Source: Census, ESRI, USGS, Town of Edenton	Legend	
	Note: This map is for reference only.	Prepared By: MC	Projection: NC State Plane (NAD83)	County Boundary	1ft Sea Level Rise
				Town of Edenton Boundary	2ft Sea Level Rise
				Town of Edenton ETJ	3ft Sea Level Rise

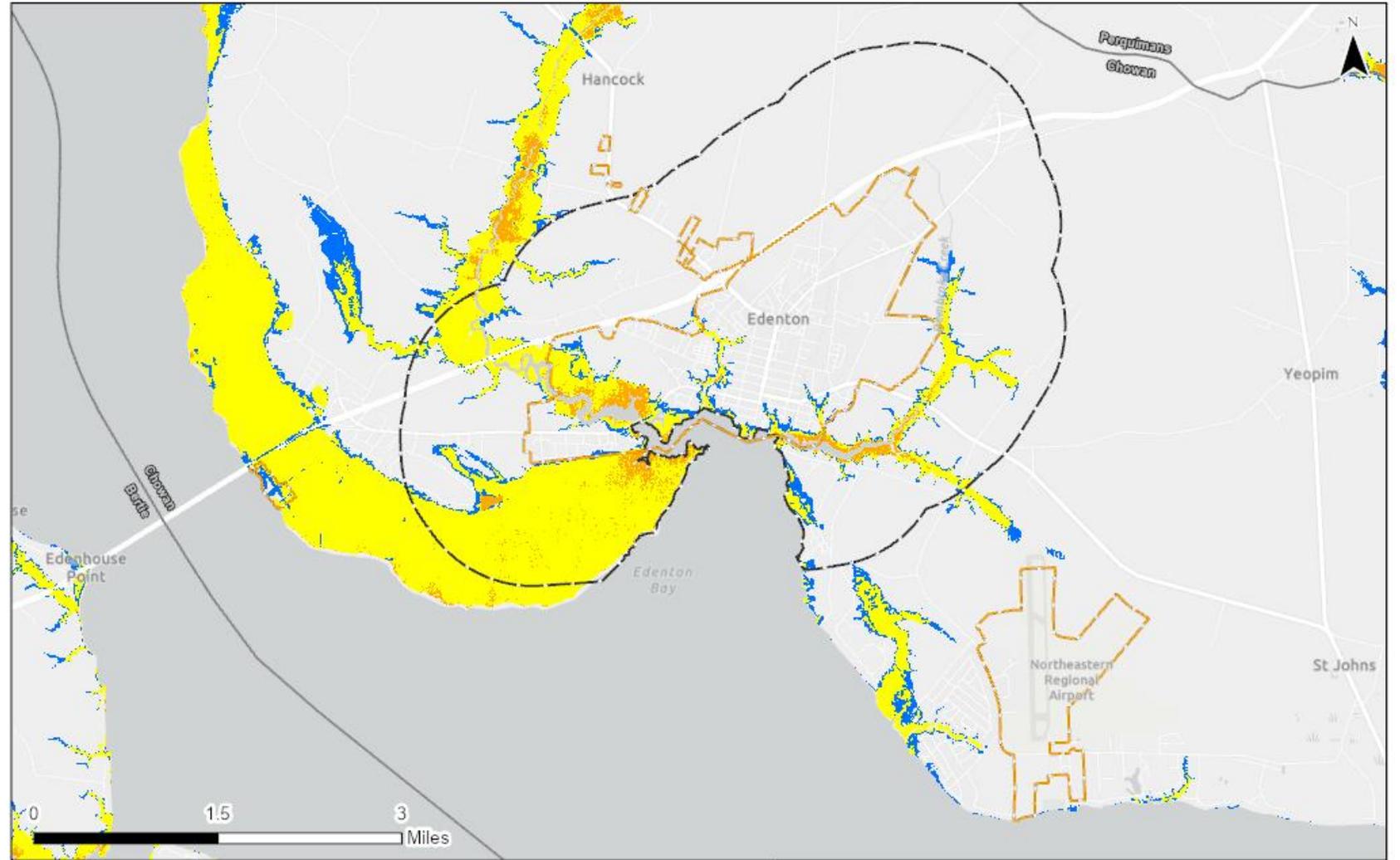
Hazards & Stressors

Storm Surge CAT 1



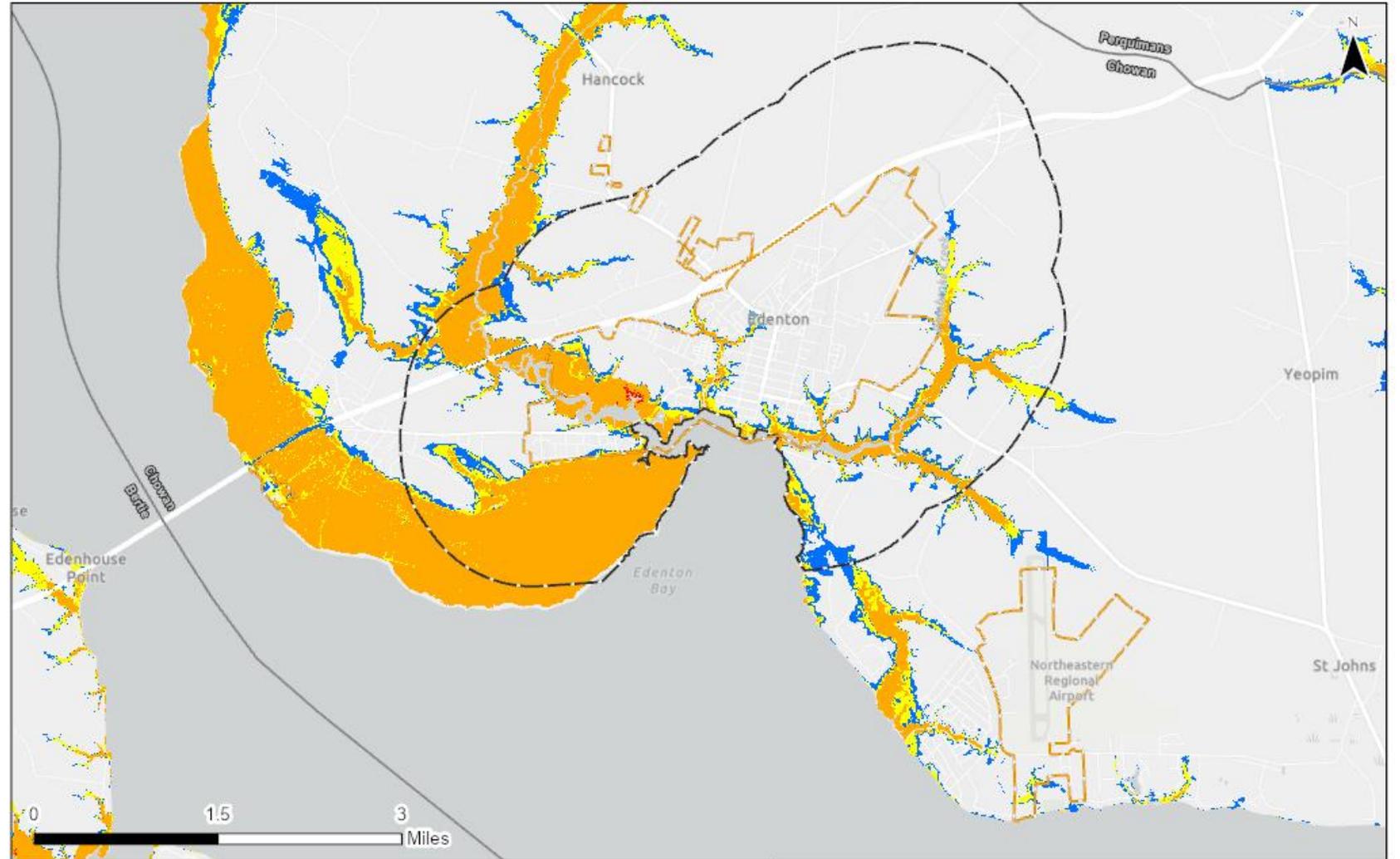
Town of Edenton, NC		Storm Surge Category 1	
	Scale: 1 in = 1 mi	Date: 10/17/2023	Source: Census, ESRI, USGS, Town of Edenton
	Note: This map is for reference only.	Prepared By: MC	Projection: NC State Plane (NAD83)
Legend		Town of Edenton Boundary Town of Edenton ETJ County Boundary	
		Less than 3 feet above ground Greater than 3 feet above ground	

Storm Surge CAT 2



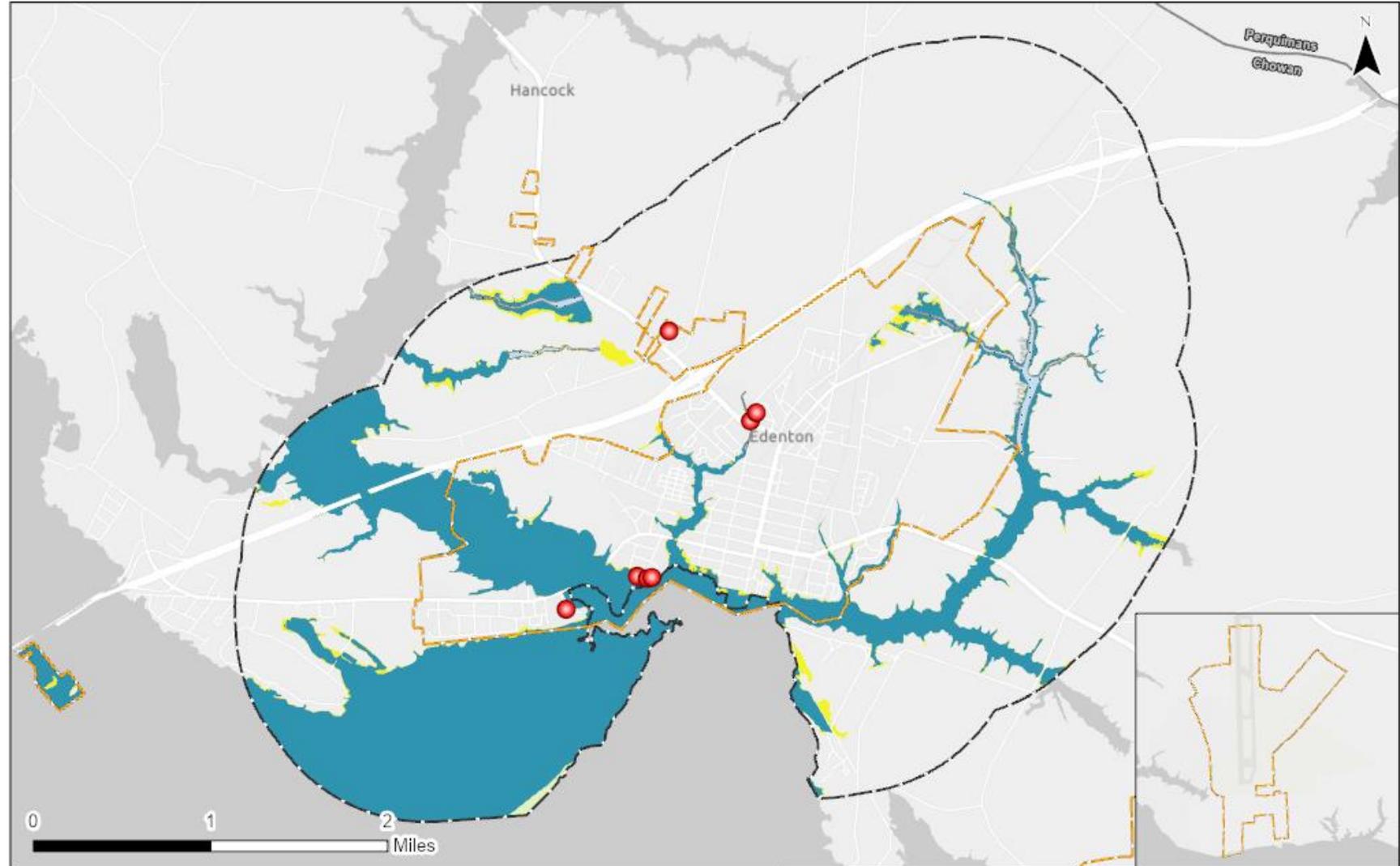
Town of Edenton, NC		Storm Surge Category 2	
	Scale: 1 in = 1 mi	Date: 10/17/2023	Source: Census, ESRI, USGS, Town of Edenton
	Note: This map is for reference only.	Prepared By: MC	Projection: NC State Plane (NAD83)
Legend			
	Town of Edenton Boundary		Less than 3 feet above ground
	Town of Edenton ETJ		Greater than 3 feet above ground
	County Boundary		Greater than 6 feet above ground

Storm Surge CAT 3



Town of Edenton, NC		Storm Surge Category 3	
	Scale: 1 in = 1 mi	Date: 10/17/2023	Source: Census, ESRI, USGS, Town of Edenton
	Note: This map is for reference only.	Prepared By: MC	Projection: NC State Plane (NAD83)
Legend			
	Town of Edenton Boundary		Less than 3 feet above ground
	Town of Edenton ETJ		Greater than 3 feet above ground
	County Boundary		Greater than 6 feet above ground
			Greater than 9 feet above ground

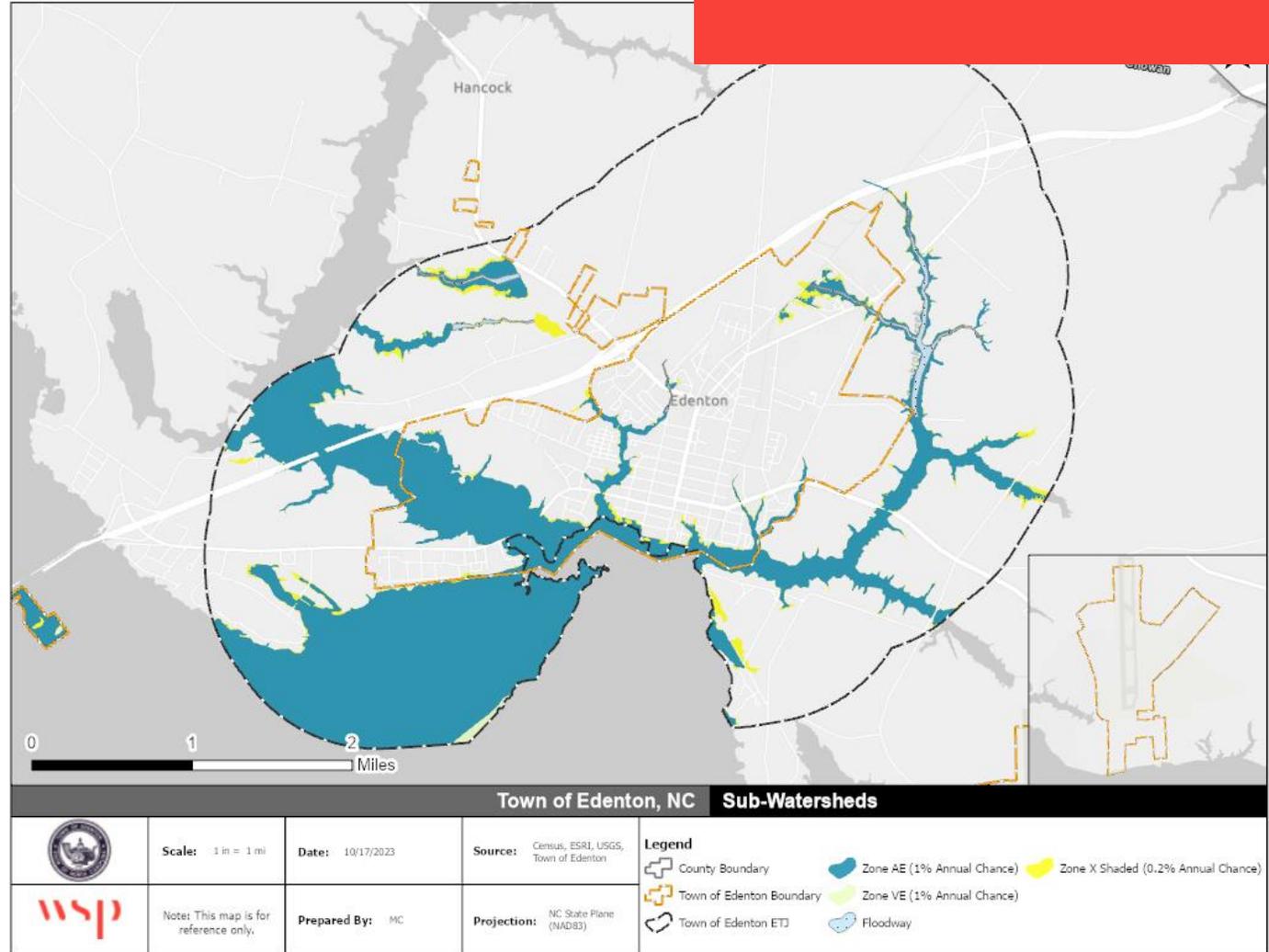
Repetitive Loss Areas



Town of Edenton, NC				Repetitive Loss Locations	
	Scale: 1 in = 1 mi	Date: 10/18/2023	Source: Census, ESRI, USGS, Town of Edenton	Legend Town of Edenton Boundary Town of Edenton ETJ County Boundary Repetitive Loss Locations Zone AE (1% Annual Chance) Zone VE (1% Annual Chance) Floodway Zone X Shaded (0.2% Annual Chance)	
		Note: This map is for reference only.	Prepared By: MC		

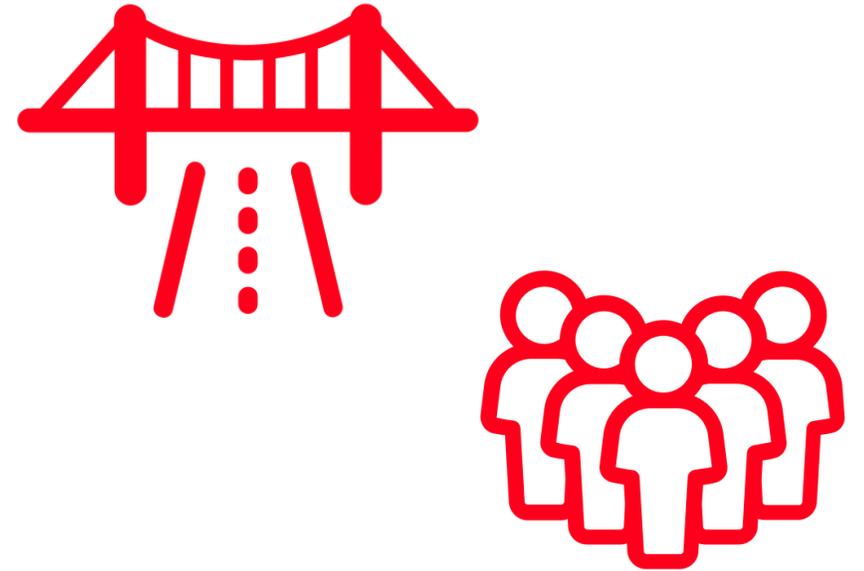
Help Identify Places that Flood or Experience Other Coastal Hazards

Where have you observed flooding within the community that you don't see reflected on this map?



Non-Climate Stressors

- Aging infrastructure
- Population dynamics
- Economic shifts
- Altered drainage patterns
- Land cover change (redevelopment/new development)
- Public health issues
- Housing availability, affordability, and age



CAT Input:

- Aging and undersized drainage infrastructure contributes to flooding
- Over the years, development and fill in and around streams and bodies of water has caused flooding throughout Town

Housing Age in Edenton

- Flooding poses greater threats to older homes
- 72.1% of homes were built in 1979 or earlier
- 47% of housing in Edenton were built before any floodplain development restrictions were required.

HOUSING UNITS BUILT IN 1989 OR EARLIER IN EDENTON

Year Structure Built	Number of Units	Percent Total Housing Units
1980 to 1989	425	15.9%
1970 to 1979	657	24.6%
1960 to 1969	170	6.4%
1950 to 1959	246	9.2%
1940 to 1949	334	12.5%
1939 or earlier	519	19.4%

Source: U.S. Census Bureau, 2018-2022 American Community Survey 5-Year Estimates

Aging Population

- Older adults are particularly vulnerable to extreme weather events
- 28.7% of the population in Edenton is age 65 or older

STATISTICS FOR POPULATION 65 YEARS AND OLDER IN EDENTON

	Number of People	Percentages
Living with a Disability	234	21.3%
Living Below Poverty Level	(X)	9.8%
Living Alone (Male Householder) *	141	6.4%
Living Alone (Female Householder) *	282	12.8%

Source: U.S. Census Bureau, 2018-2022 American Community Survey 5-Year Estimates

* Individual living alone with no spouse/partner present

Help Identify Hazards & Stressors

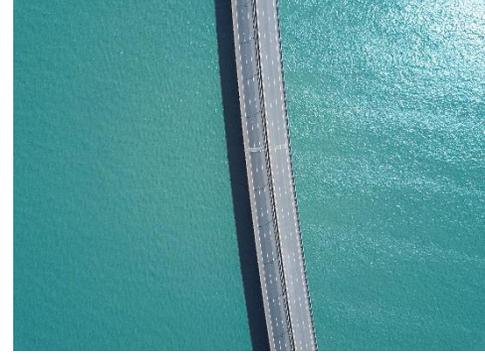
- What types of flooding pose the greatest risk to Edenton?
- What locations in Edenton are most susceptible to flooding?
- Are there other non-climate stressors that we should evaluate?

Asset Identification



Critical Assets, Natural Assets, and Social Vulnerability

- Critical assets
 - Roads/Evacuation routes
 - Water & sewer lines
 - Water/sewer treatment facilities
 - Community government service offices
 - Schools
 - Health services
 - Public safety or emergency services (police, fire, etc.)
 - Historic and cultural properties, districts, key community resources
- Natural assets
 - Natural areas (wetlands, forests, protected areas)
 - Open space
 - Watersheds
- Social Vulnerability



Town Identified Critical Assets

Map ID	Facility	Address	Asset type
0	Edenton Police Department	301 N. Oakum Street	Safety and Security
1	Chowan County Public Safety Center	305 W. Freemason Street	Safety and Security
2	Edenton Public Works Department	118 W. Hicks Street	Government
3	Edenton Electric Department	107 W. Freemason Street	Energy
4	Edenton Fire Department	704 N. Broad Street	Safety and Security
5	Water Tower	304 Park Avenue	Water Systems
6	Shepard-Pruden Memorial Library	106 W. Water Street	Food, Hydration, Shelter
7	John A Holmes High School	600 Woodard Street	Food, Hydration, Shelter
8	Edenton Primetime Retirement Center	106 Mark Dr.	Food, Hydration, Shelter
9	Chowan River Rehabilitation & Nursing Center	1341 Paradise Road	Food, Hydration, Shelter
10	Chowan Senior Center	101 Court Street	Food, Hydration, Shelter
11	ECU Health Chowan Hospital	211 Virginia Road	Health and Medical
12	Town of Edenton Municipal Offices	400 S. Broad Street	Government
13	Substation	227 E. Freemason Street	Energy
14	College of the Albemarle/Temporary High School	824 N. Oakum	Food, Hydration, Shelter

Help Identify Important Places

- What locations in Town are important to you?
- What locations make your community feel like home?
- Are there groups or communities in town that may be particularly vulnerable to the flood hazards or non-climate stressors?

Plan Vision & Goals

What would it mean for Edenton to be resilient or protected from flooding?

Public survey input received so far:

- More attractive to live in, peace of mind, more stability
- Flood insurance savings benefitting residential and business properties
- Prepared, minimal impacts from flooding, able to recover quickly and cost efficiently
- Softened shoreline, retention of waterfront character
- Avoiding building in flood prone areas
- Improved stormwater drainage

What does a more resilient Edenton mean to you?

How could Edenton become more protected from flood damage?

How do you want to see Edenton adapt?

41 Surveys completed

Stay Involved



Public Involvement Opportunities

- **Attend Meetings:**
 - Public Meeting 1 – *project overview and hazard and asset identification*
 - Public Meeting 2 – review draft plan, resilience strategy selection & prioritization
 - *Attend next CAT meeting*
- **Respond to the Public Survey**
 - Available online or in hard copy
- **Follow Planning Process Updates**
 - Check the Town’s website for planning updates. Provide comments directly to the consultant team

Edenton Resilience Strategy Public Survey



<https://www.townofedenton.com/planning-department/page/resilient-coastal-communities-program>

Questions?



wsp.com