



Five Towns

Planning Committee Meeting #2

October 3, 2013

Five Towns Community Center

Agenda

1. Introductions & Welcome (7:00 pm)

2. Presentation (7:10 pm)

- What happened and why?
- Future Risk
- Strategies to Evaluate Potential Projects

---Discussion Items ---

3. Vision: Goals and Objectives (7:30 pm)

4. Identifying Community Assets (8:00 pm)

5. Identifying Potential Projects (8:30 pm)

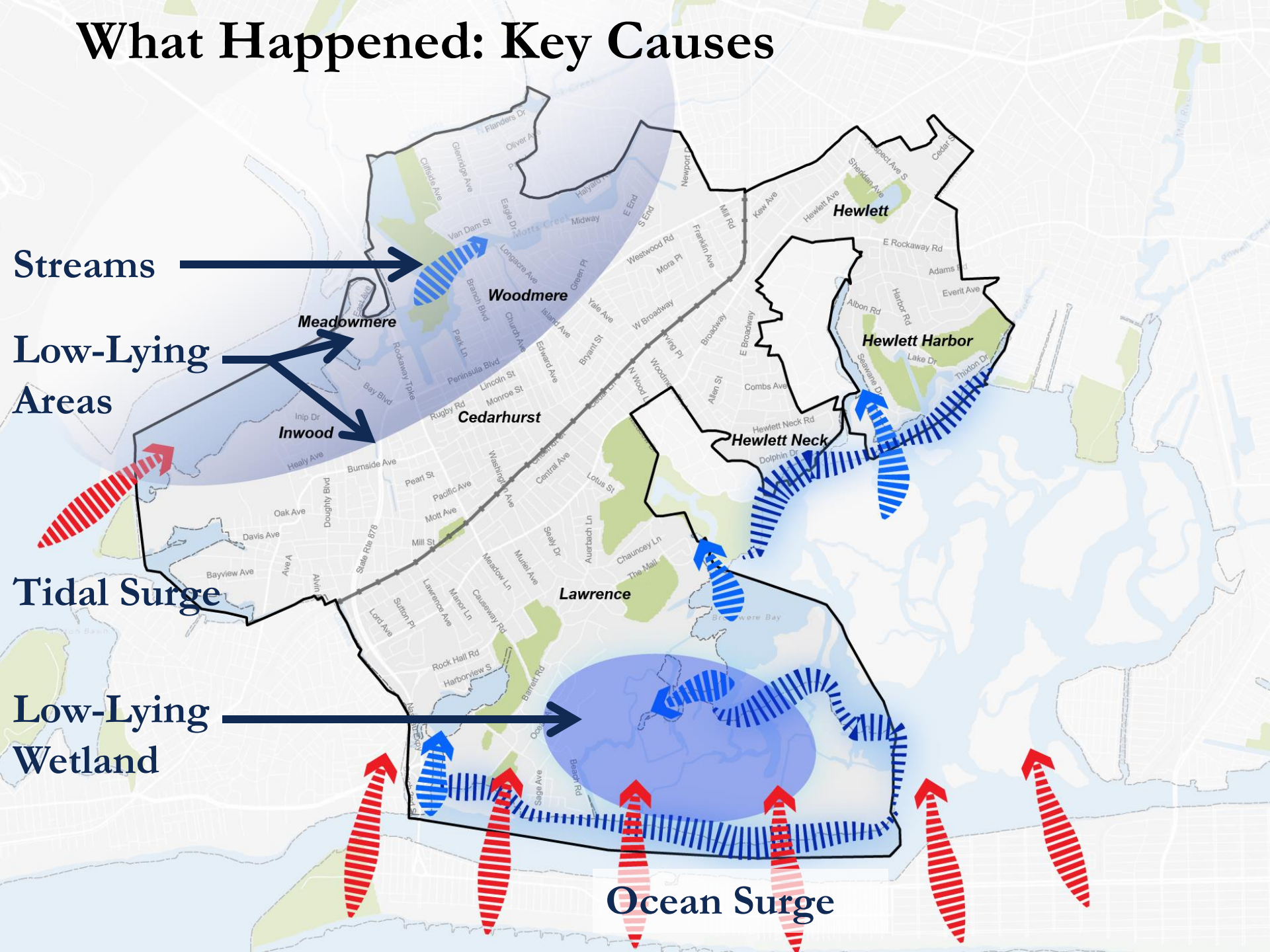
6. Next Steps and Q&A (8:50 pm)

7. Wrap-Up (9:00 pm)

What Happened: Inundation

The map illustrates the extent of inundation across the Rockaway Peninsula. The flooded areas are highlighted in blue, covering a significant portion of the peninsula, particularly along the coast and in the central and southern regions. The neighborhoods shown include Inwood, Cedarhurst, Lawrence, Woodmere, Meadowmere, Hewlett, Hewlett Harbor, and Hewlett Neck. The map also displays a network of roads and water bodies, providing a detailed view of the affected areas.

What Happened: Key Causes



What Happened: Key Causes

Description of Storm

- The Five Towns Communities are surrounded by water to the north, south and west. During Superstorm Sandy surge from the Atlantic Ocean over Far Rockaway and through Jamaica Bay affected each of the areas and caused tidal flooding and stormwater to backup in the system.
- Flash flooding generated by the storm's rainfall, high winds, and coastal storm surges
- Storm surge measuring nearly 14 feet (about 4.3 metres) combined with heavy rains to cause flooding in streets coupled with low lying areas.

Surge Flooding

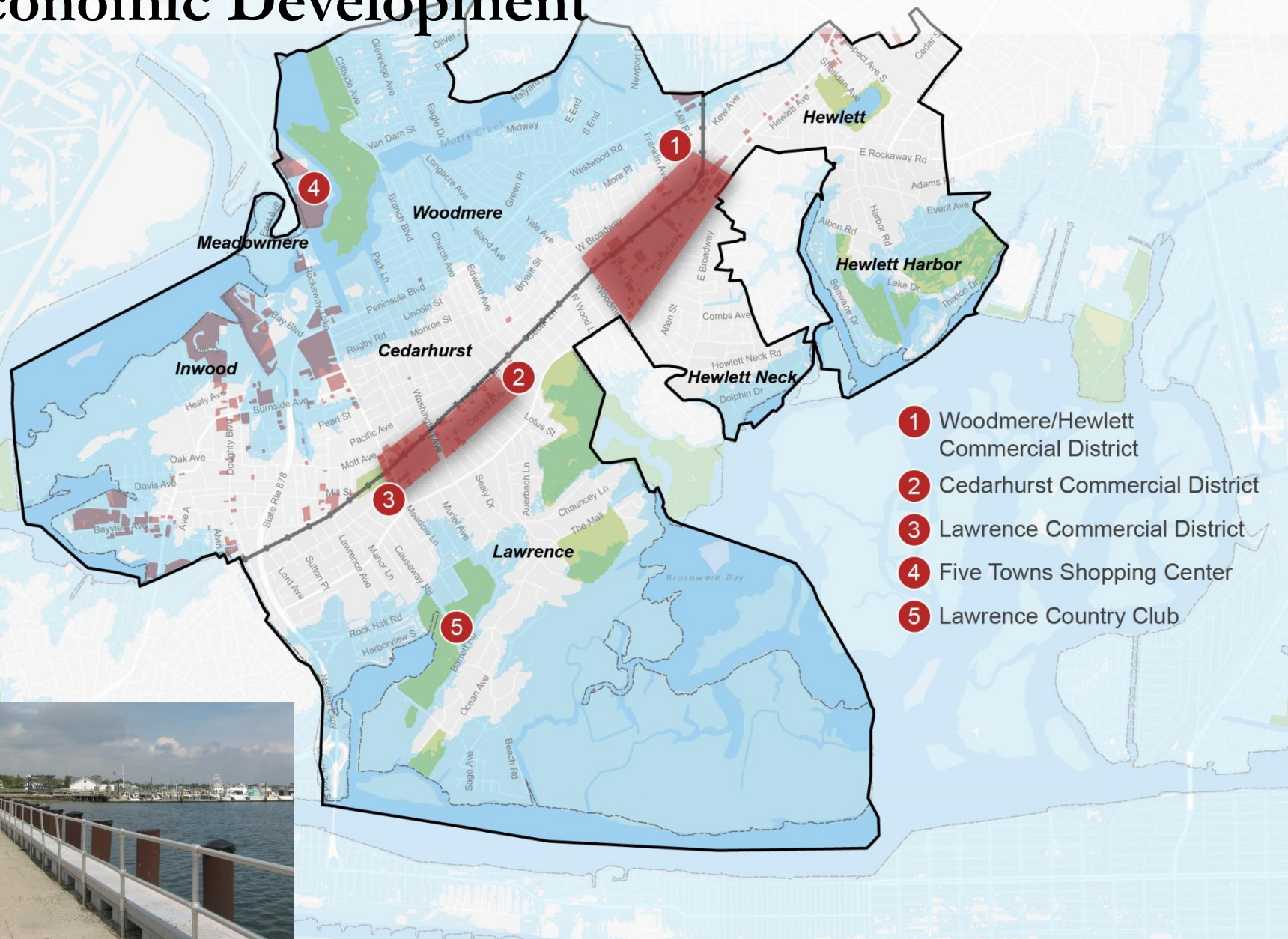
Storm Drainage Flooding

Recurrent Flooding

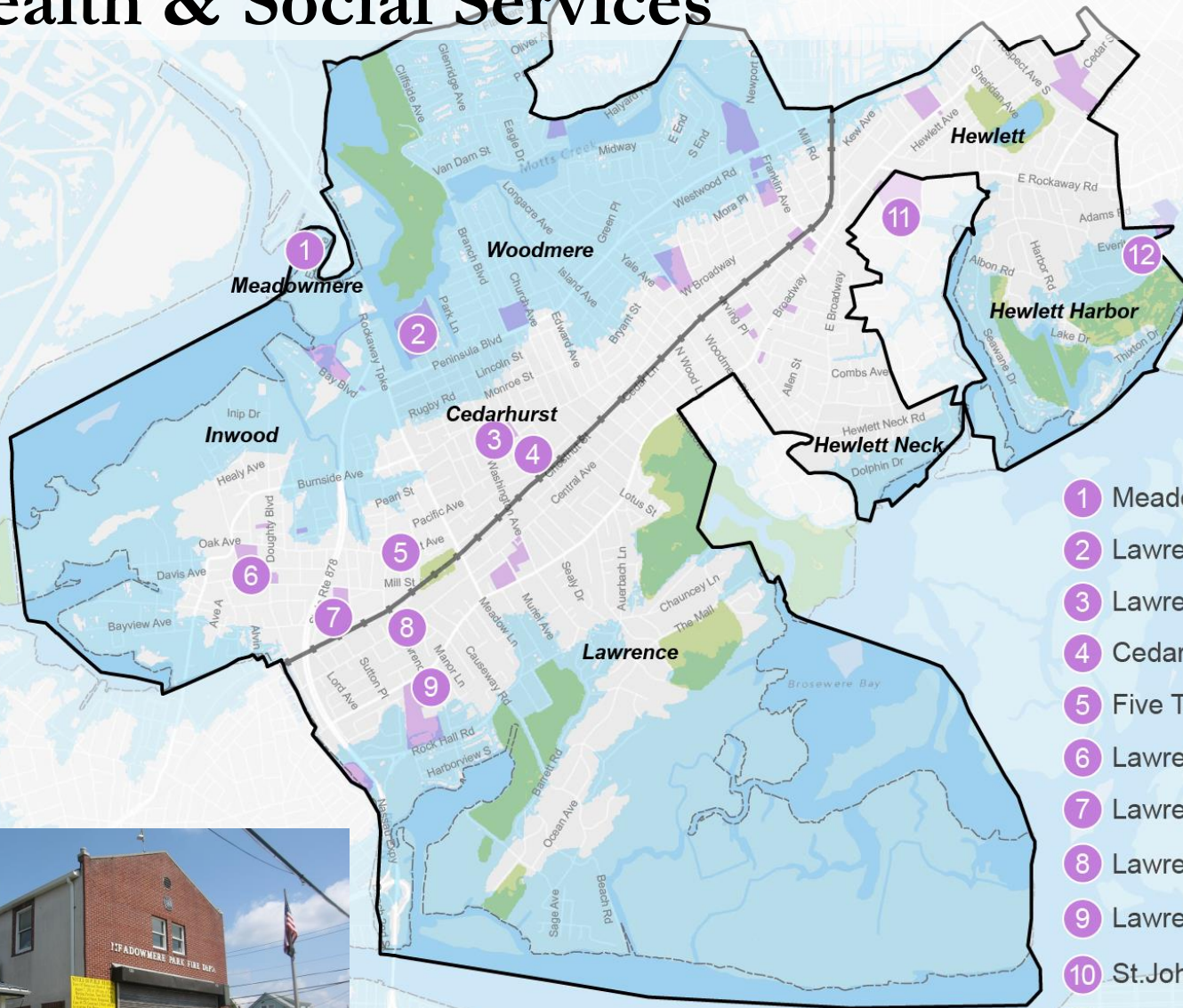
Sewage backup

Sandy's Effect on Key Assets:

Economic Development

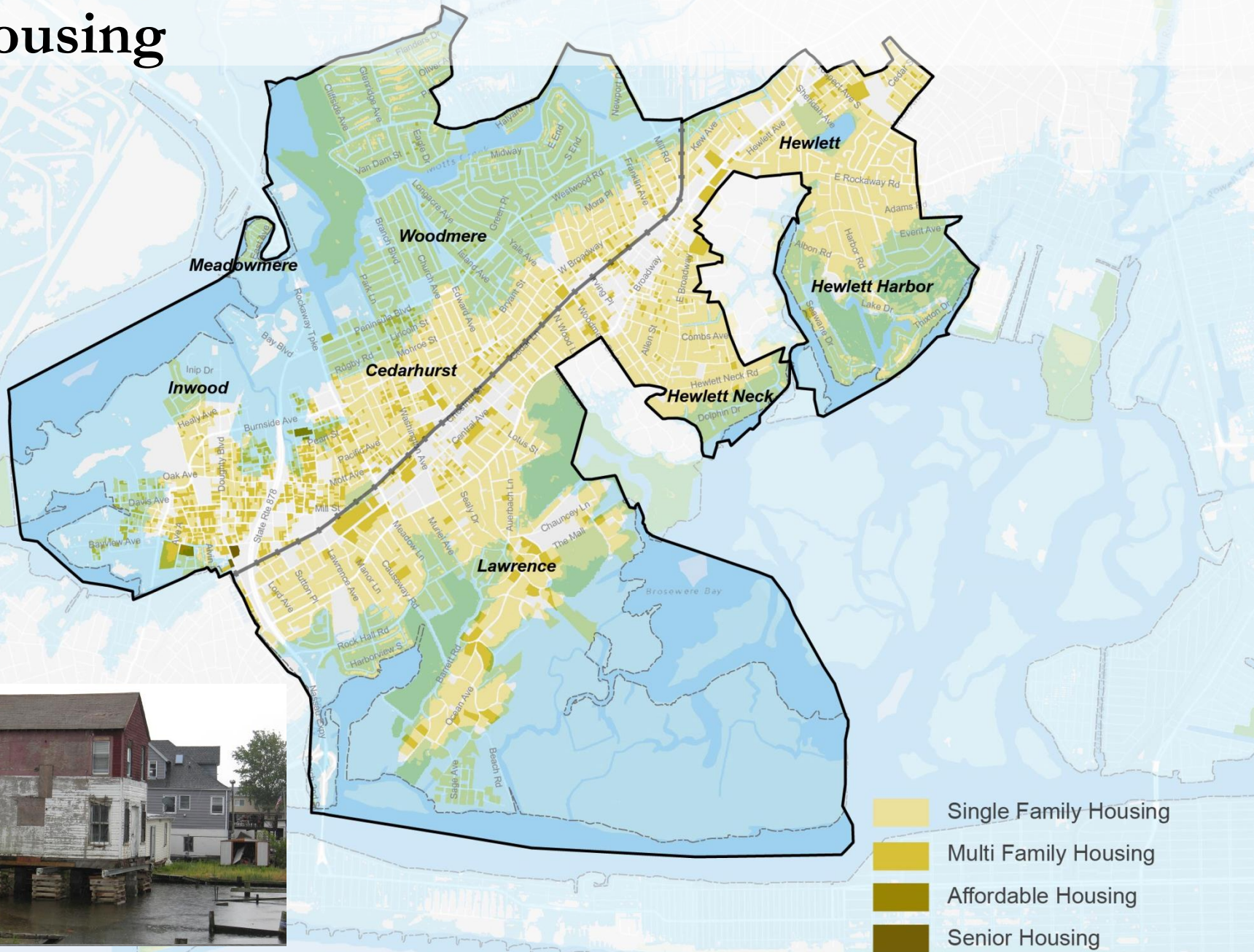


Sandy's Effect on Key Assets: Health & Social Services



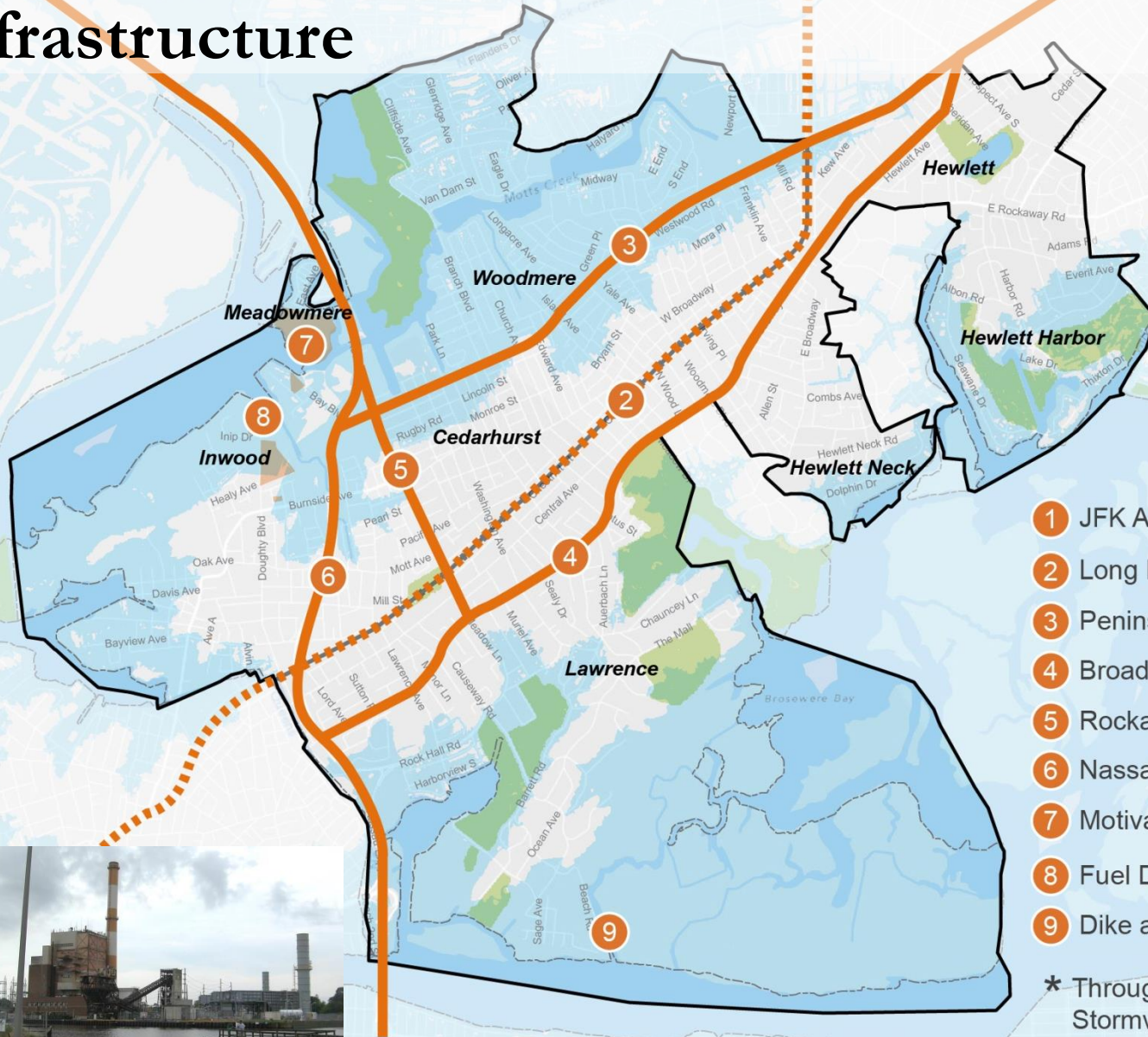
- 1 Meadowmere Park Fire House
- 2 Lawrence High School
- 3 Lawrence #5 School
- 4 Cedarhurst Village Hall
- 5 Five Towns Community Center
- 6 Lawrence #2 School
- 7 Lawrence #4 School
- 8 Lawrence Village Hall
- 9 Lawrence Middle School
- 10 St. John's Episcopal Hospital
- 11 Hewlett Neck Village Hall
- 12 Hewlett Harbor Village Hall

Sandy's Effect on Key Assets: Housing



Sandy's Effect on Key Assets:

Infrastructure

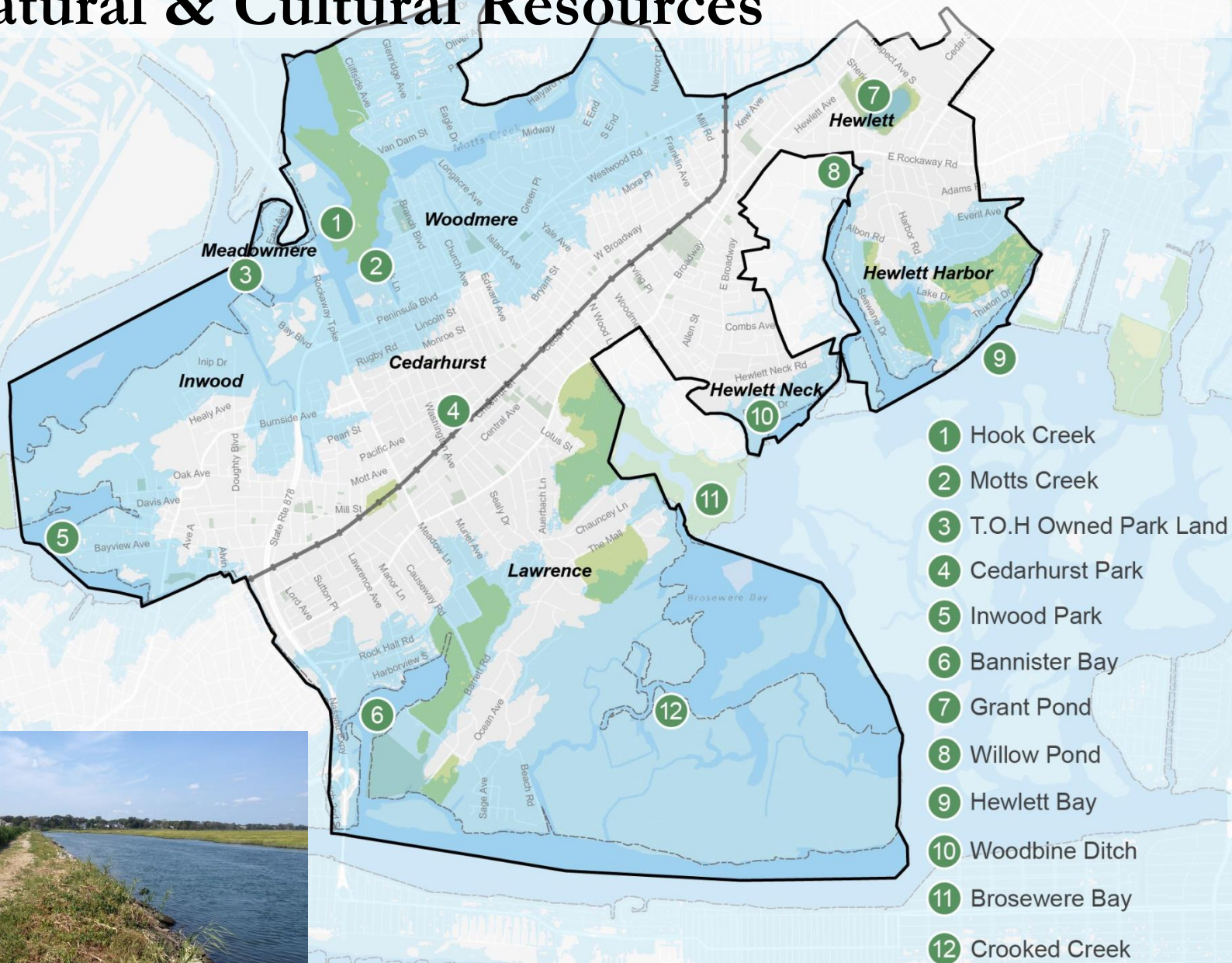


- 1 JFK Airport
- 2 Long Island Rail Road
- 3 Peninsula Boulevard
- 4 Broadway
- 5 Rockaway Turnpike
- 6 Nassau Expressway
- 7 Motiva Enterprise
- 8 Fuel Distribution
- 9 Dike at the Isle of Wight

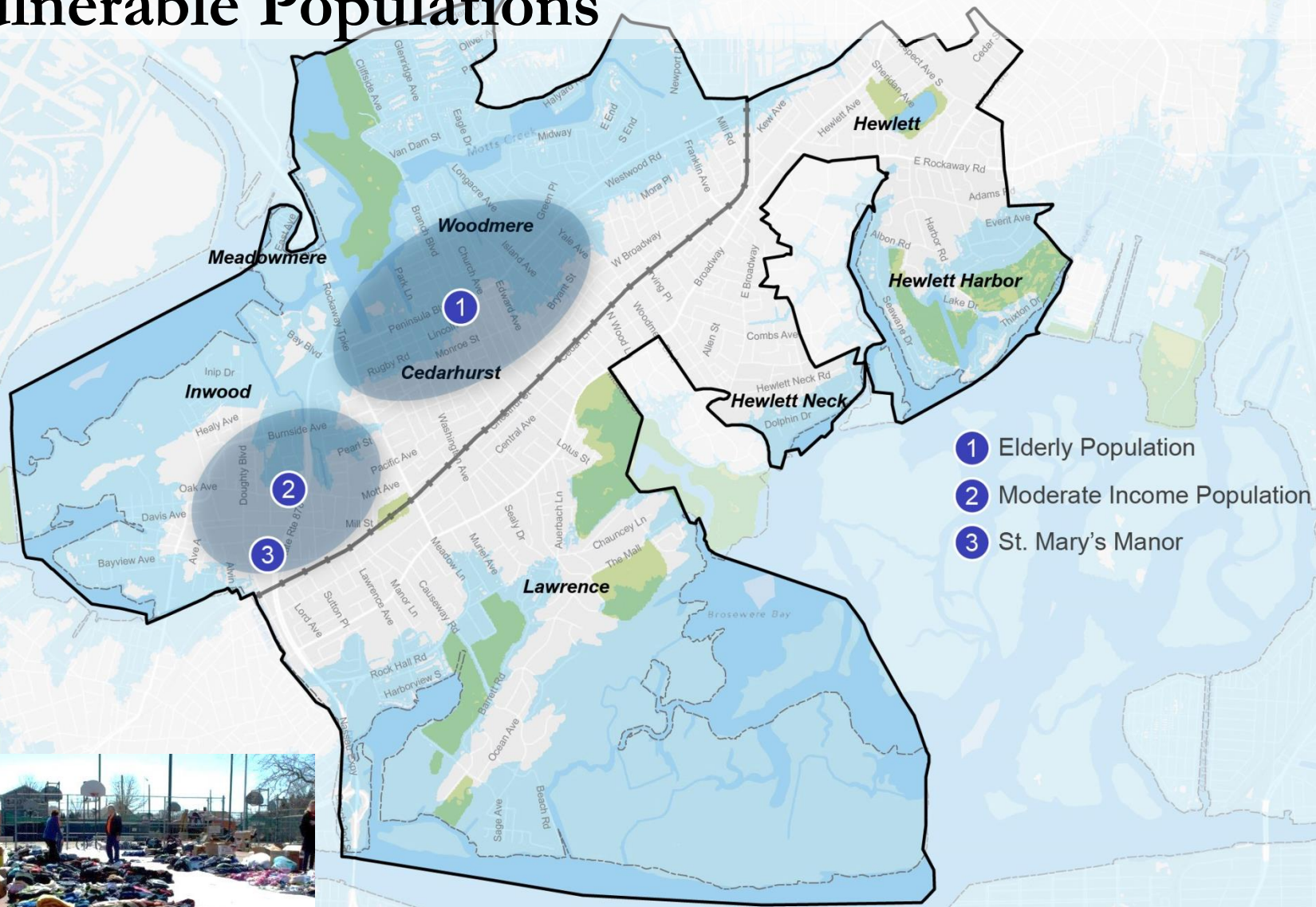
* Throughout the planning area :
Stormwater systems including
catch basins and outfalls



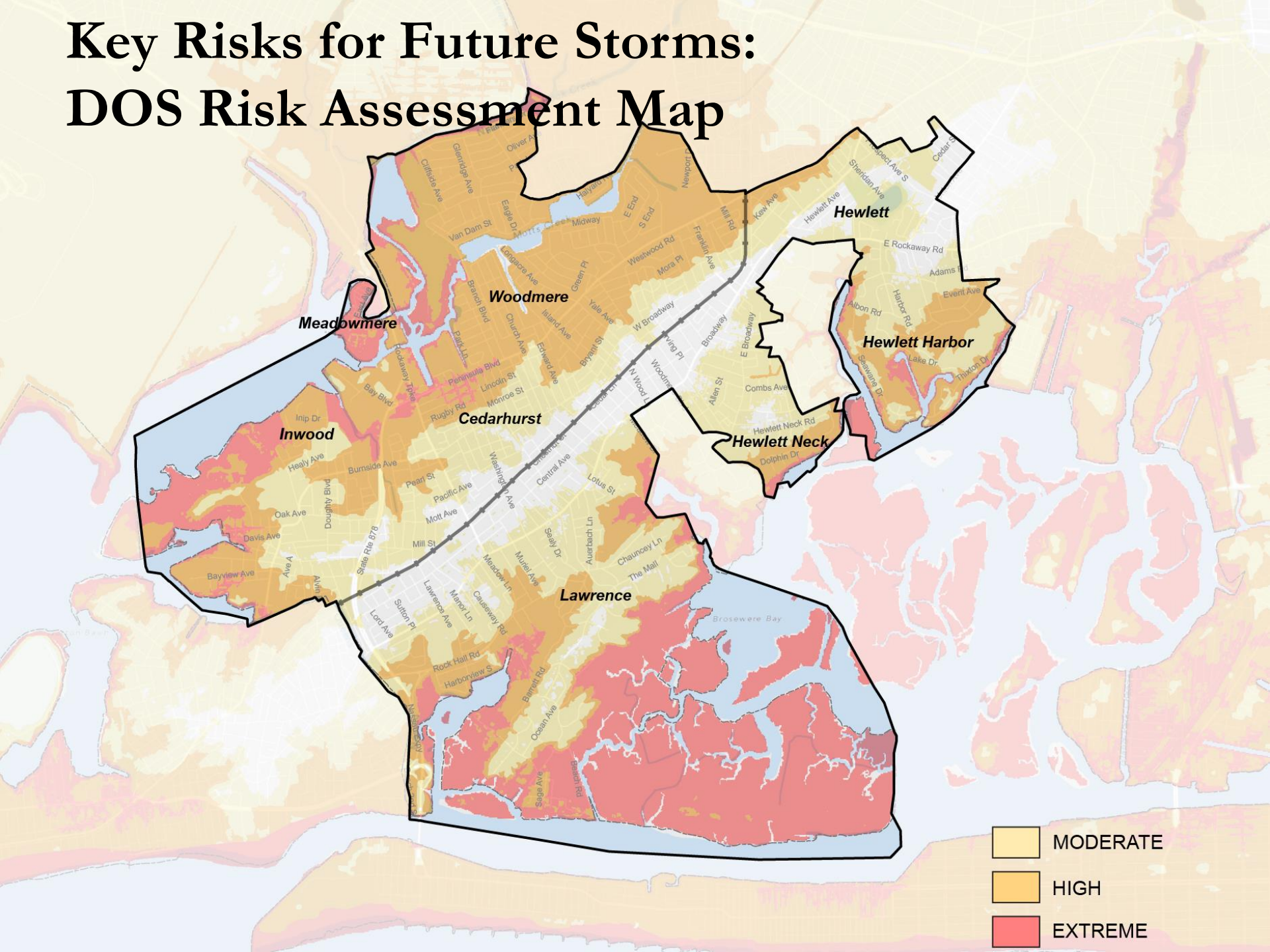
Sandy's Effect on Key Assets: Natural & Cultural Resources



Sandy's Effect on Key Assets: Vulnerable Populations



Key Risks for Future Storms: DOS Risk Assessment Map

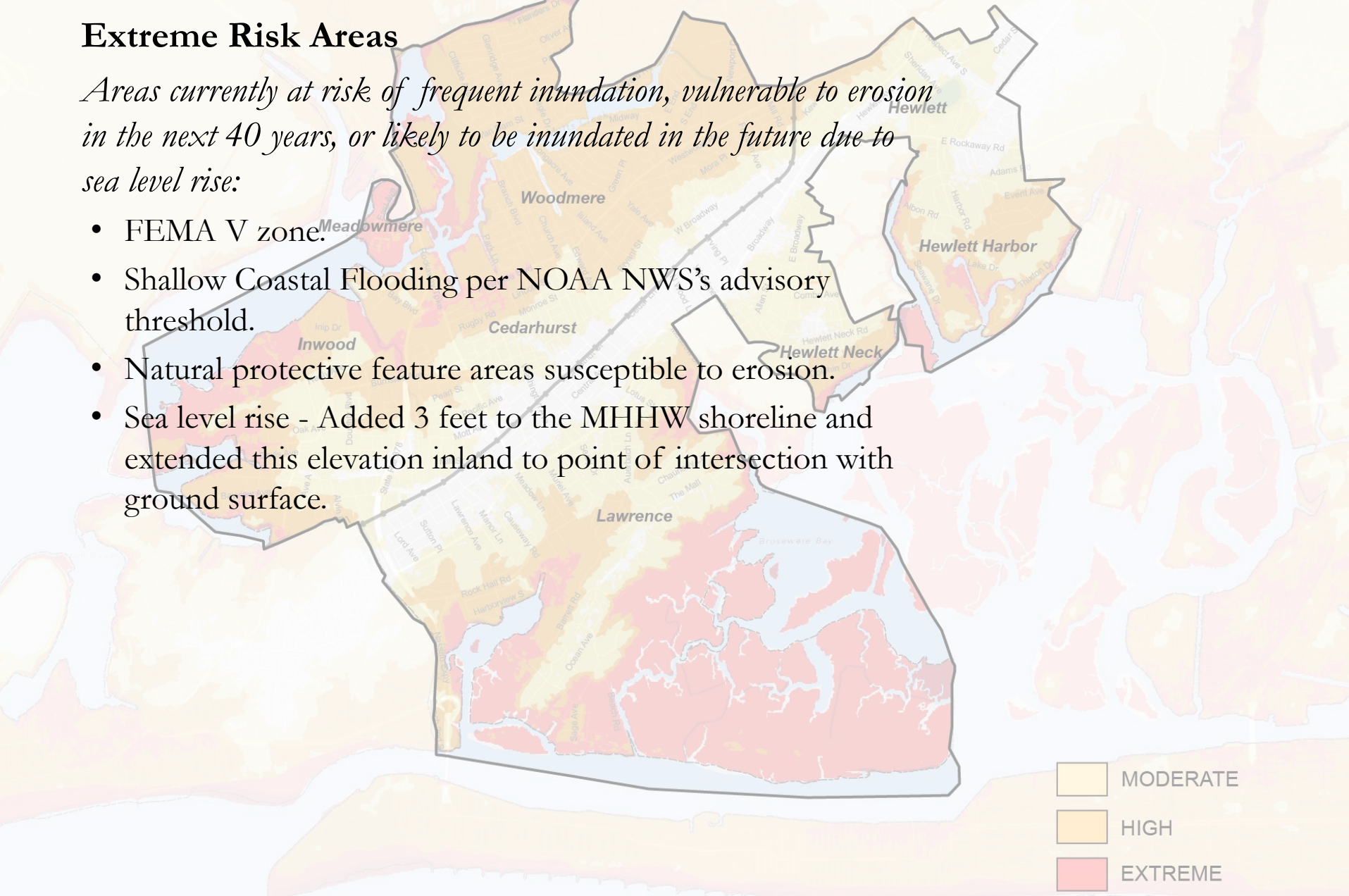


DOS Risk Assessment Map

Extreme Risk Areas

Areas currently at risk of frequent inundation, vulnerable to erosion in the next 40 years, or likely to be inundated in the future due to sea level rise:

- FEMA V zone.
- Shallow Coastal Flooding per NOAA NWS's advisory threshold.
- Natural protective feature areas susceptible to erosion.
- Sea level rise - Added 3 feet to the MHHW shoreline and extended this elevation inland to point of intersection with ground surface.

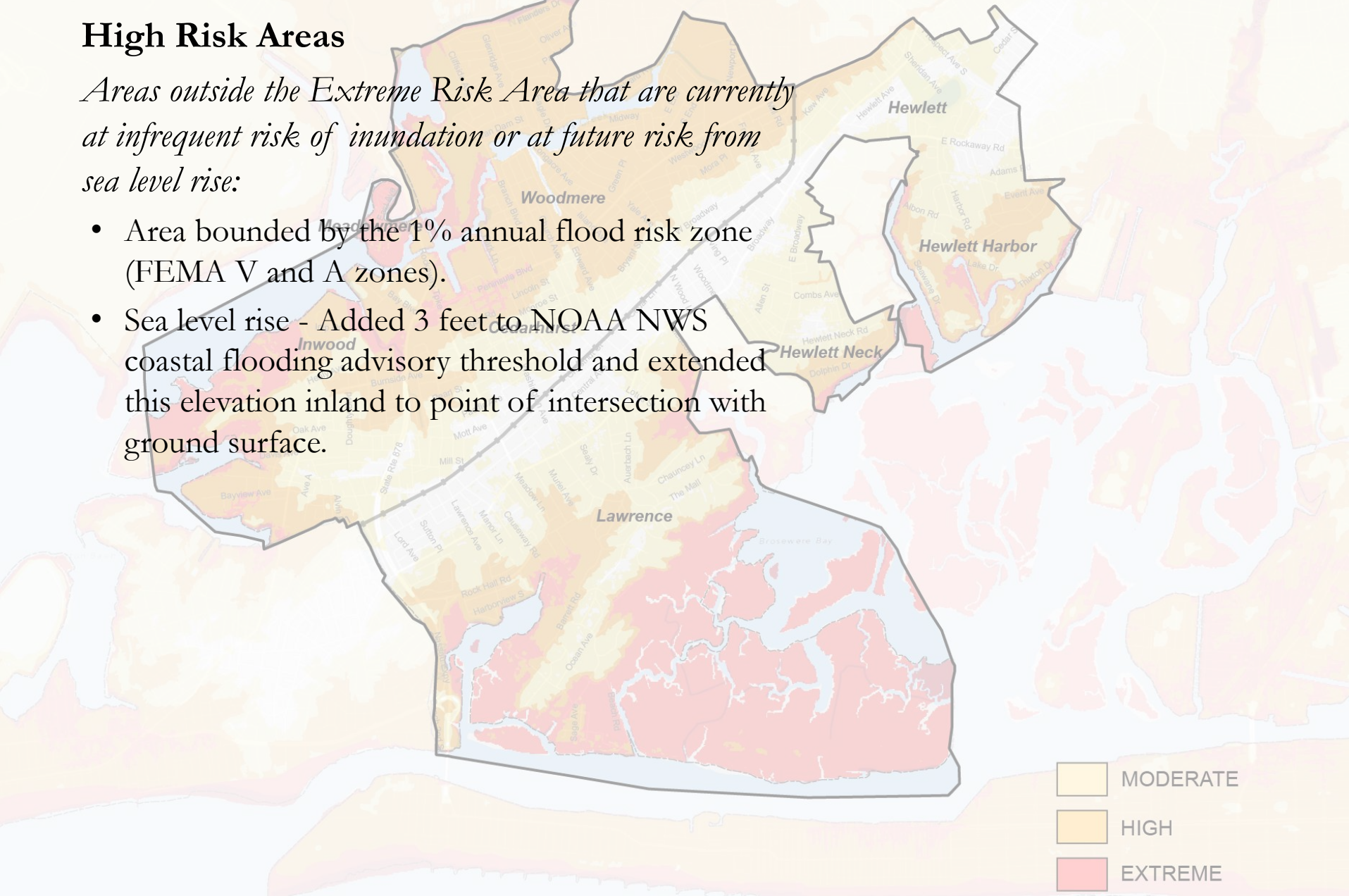


DOS Risk Assessment Map

High Risk Areas

Areas outside the Extreme Risk Area that are currently at infrequent risk of inundation or at future risk from sea level rise:

- Area bounded by the 1% annual flood risk zone (FEMA V and A zones).
- Sea level rise - Added 3 feet to NOAA NWS coastal flooding advisory threshold and extended this elevation inland to point of intersection with ground surface.

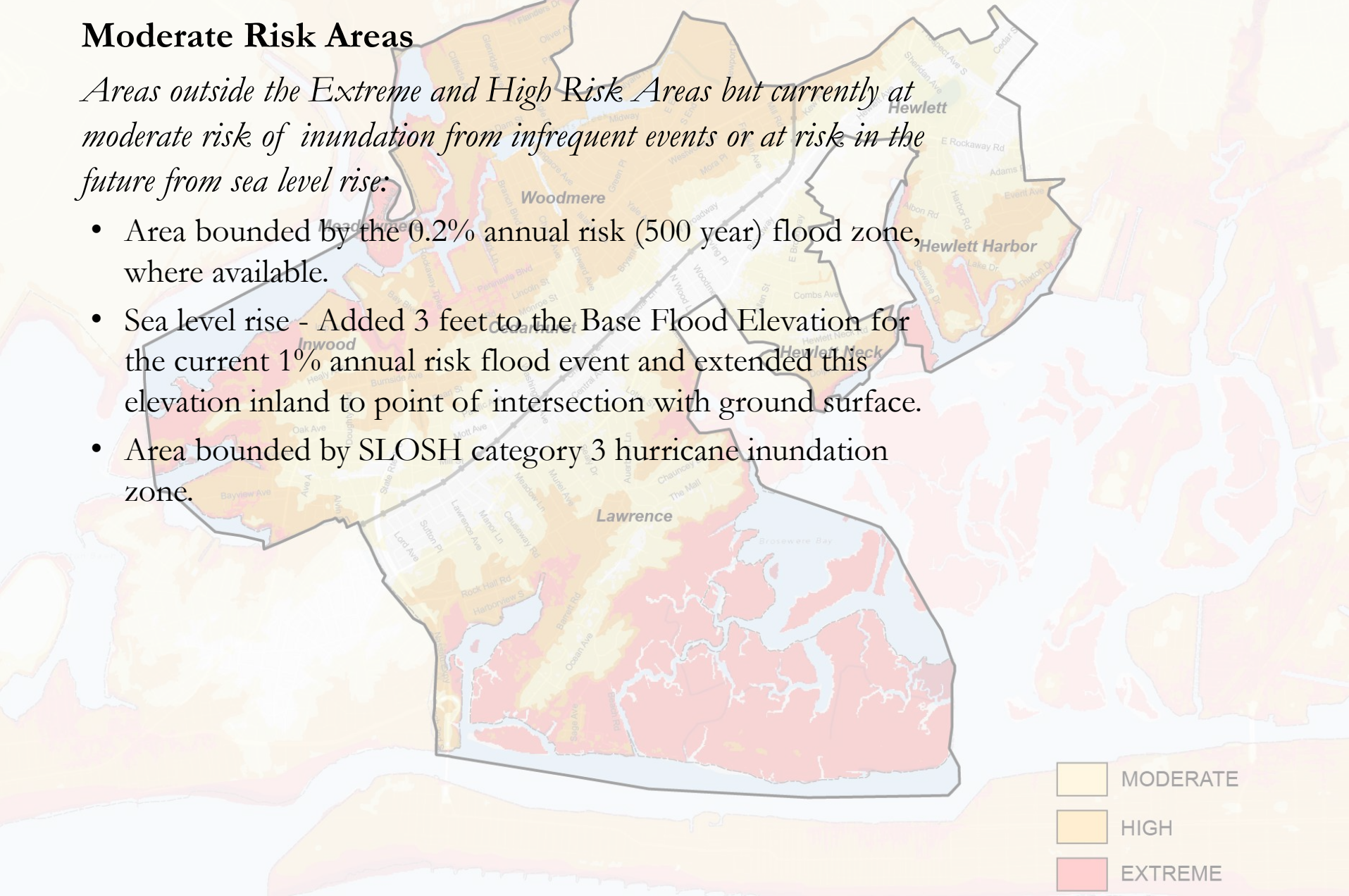


DOS Risk Assessment Map

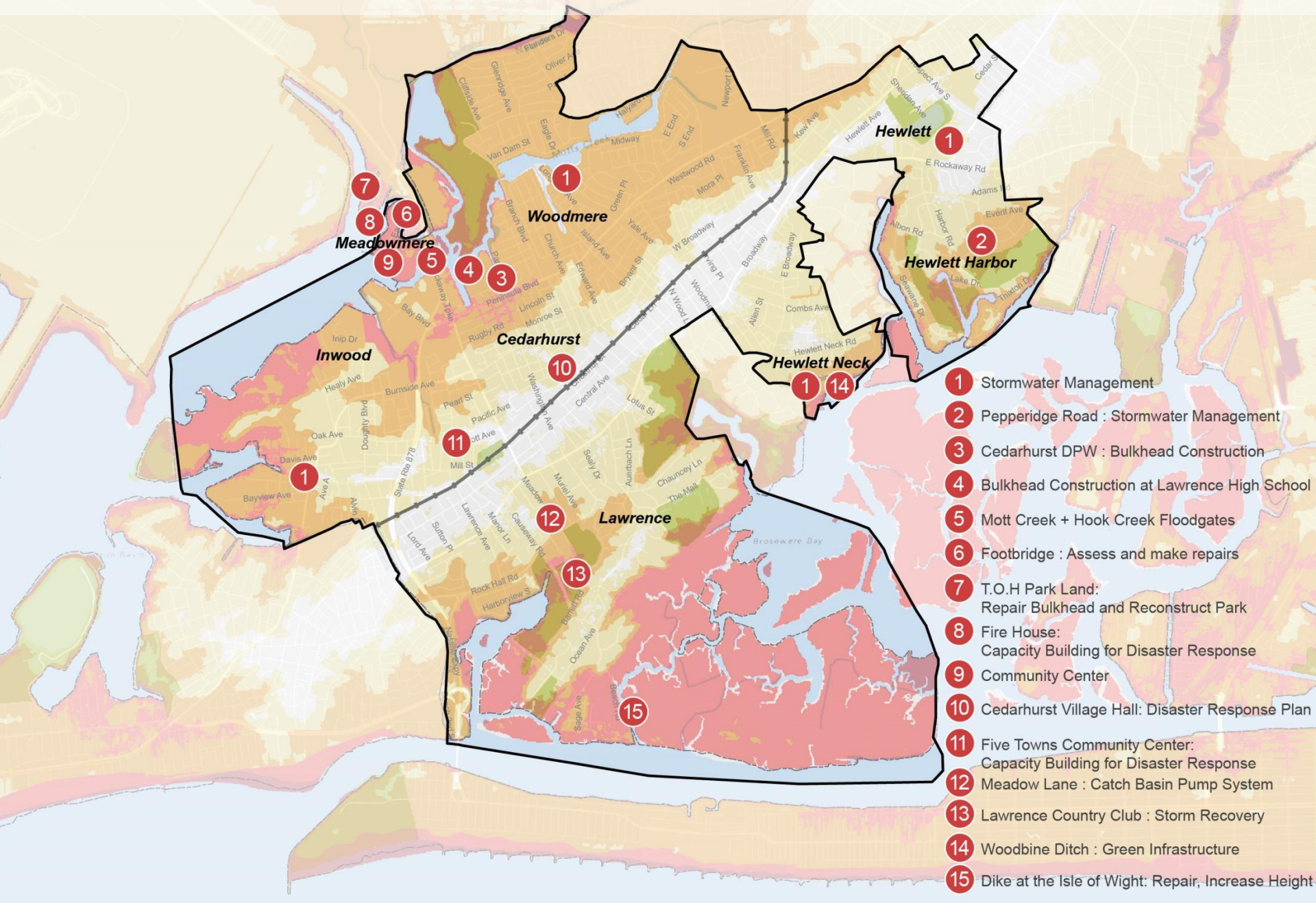
Moderate Risk Areas

Areas outside the Extreme and High Risk Areas but currently at moderate risk of inundation from infrequent events or at risk in the future from sea level rise:

- Area bounded by the 0.2% annual risk (500 year) flood zone, where available.
- Sea level rise - Added 3 feet to the Base Flood Elevation for the current 1% annual risk flood event and extended this elevation inland to point of intersection with ground surface.
- Area bounded by SLOSH category 3 hurricane inundation zone.



Potential Projects to Address Future Risks



Potential Projects to Address Future Risks



Proposed Location
of NYC Floodgates
in Jamaica Bay

Dune Reconstruction:
Atlantic Beach and Long Beach

3.00 mi

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google earth

Evaluation of Potential Projects

CDBG-DR Guidelines

Risk Assessment Matrix

Responsibility of other jurisdictions

- South Valley Stream Bulkhead
- Bay Park Sewage Treatment Plant

Potential Projects Matrix

Community	Project Name	Project Description
<i>Cedarhurst</i>	Lawrence High School	Construct bulkheads to protect the high school and surrounding areas (including Johnny Jack Park) from storm surge
	Village Hall	Strategies to ensure ongoing and improved ability to respond to future storms
	Department of Public Works Facility	Construct bulkheads to protect DPW from storm surge
	Flood Gates	Construct flood gates beneath Rockaway Blvd at Motts Creek and Hook Creek
<i>Hewlett</i>	Stormwater Drainage	Replace and maintain check valves on stormwater outfalls
<i>Hewlett Harbor</i>	Pepperidge Road Drainage	Install catchbasins or additional stormwater management infrastructure to improve drainage
<i>Hewlett Neck</i>	Woodbine Ditch	Improve stormwater flow and expand green infrastructure to manage runoff
	Stormwater Drainage	Replace and maintain check valves on stormwater outfalls
<i>Inwood</i>	Five Towns Community Center	Strategies to ensure ongoing and improved ability to respond to future storms
	Stormwater Drainage	Replace and maintain check valves on stormwater outfalls
<i>Lawrence</i>	Meadow Lane/Marbridge Rd	Install pumps in catch basins to improve stormwater drainage
	Dike at the Isle of Wight	Repair and increase the height of dike to protect from tidal surge
	Lawrence Country Club	Storm recovery and improvements

Potential Projects Matrix

Community	Project Name	Project Description
<i>Meadowmere Park</i>	Community Center	Build a new community center to serve Meadowmere Park year-round and provide critical recovery services in response to future storms
	Footbridge	Assess the structural soundness of the footbridge and make necessary repairs
	Firehouse	Upgrade firehouse to provide necessary emergency response to future storms
	Town of Hempstead Park	Repair bulkhead, reconstruct park, and remove fences that prevent access
<i>Woodmere</i>	Stormwater Drainage	Replace and maintain check valves on stormwater outfalls
<i>Regional Issues</i>	Microgrids	Designate multiple sites as power centers that are equipped with fuel cells or generators to provide electricity
	Emergency Response Centers	Develop a plan to coordinate various emergency response agencies and community based organizations throughout Five Towns
	Jamaica Bay Flood Gates	Coordinate with New York City to evaluate the proposed flood gates at Marine Pkwy in Jamaica Bay

Public Engagement Strategy

1. Project Website

- stormrecovery.ny.gov/nyrccr/community/staten-island

2. Online/In-person Survey

3. News Media/PR Outreach

4. Flyers

5. Community Television

6. Translation



Public Engagement Strategy

Public Meeting # 1 (Thursday, Oct. 17th)

- **Format**
 - Open House with station
- **Evening event: 7:00pm – 9:00pm**
- **Information Displays: Opportunities for Input**
 - The New York Rising information station
 - Facilitated discussions at stations
 - Opportunities for community input at all stations
 - Emphasis on Issues, Opportunities and Vision for the future

All meetings will include opportunities to talk with the project team and provide input via discussion, comment form, and/or markups on boards, maps, etc.

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Community Vision

Visioning

Developing consensus about what future the community wants, and then deciding what is necessary to achieve it.

Vision Statement

Captures a shared image of what community members value most and what they want their community to become.

Provides the community with the long-term, comprehensive perspective necessary to make rational and disciplined decisions on issues as they arise.

Visioning Questions

1. How should Five Towns address the damage caused by Sandy?
2. How should Five Towns capitalize on its social and economic assets to improve the local economy?
3. How should Five Towns build a more resilient community to expand the economy and reduce future risk?
4. What would you most like to see for Five Towns in the next 10 years?

Next Steps and Q&A

• **Next Steps**

• **Q&A**

• **Feedback**

• **Conclusion**

• **Thank you**

• **Goodbye**