



Rye

Community Reconstruction Plan Planning Committee Meeting #6

September 16, 2014 – 6:00 PM

Rye City Hall

1051 Boston Post Road, Rye, New York



Welcome and Introductions

Committee and Team

- Rye Committee
 - Co-Chairs, **Holly Kennedy and Bernie Althoff**
 - Committee, **9 Community Members**
- Governor's Office of Storm Recovery
 - **Kate Dineen**
 - **Dan Berkovits**
 - **Suzanne Barclay**
 - **Alex Breinin**
 - **Ricardo Soto-Lopez**
- Consultants (AKRF-Sasaki)
 - Program Lead, **Nanette Bourne (AKRF)**
 - Project Manager, **Jason Hellendrung (Sasaki)**
 - Assistant Project Manager, **Julia Carlton (Sasaki)**
 - Technical Advisor, **Jim Nash (AKRF)**

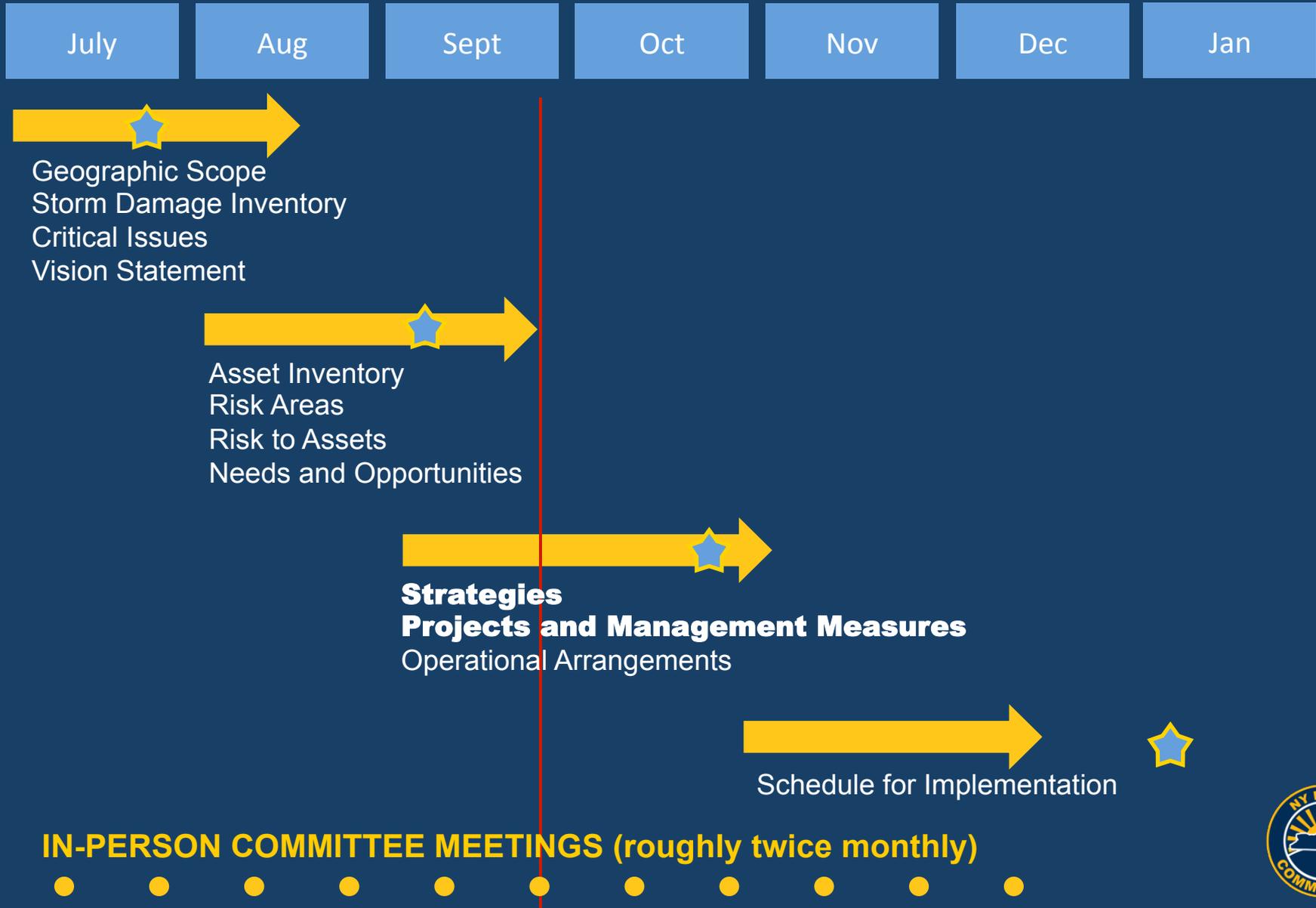


Agenda

- Welcome and introductions
- Review Public Engagement Event #2 results
- Review updated Risk Assessment Methodology and results from Unmitigated Risk Assessment
- Confirm draft reconstruction and resiliency strategies
- Refine projects, programs, and actions
- Discuss outreach options for future events
- Looking ahead



Program Process





Preliminary Public Engagement Event Results

Public Engagement Event Agenda

1. Welcome and Introductions
2. Presentation
 - NYRCR Program Overview
 - Work to Date
3. Evening Activity: Break Out Stations
4. Report Back



Break Out Stations



Health & Social Services

Needs

- Facility and systems for emergency response during flooding and power outage events
- Emergency shelter location or locations that can be opened by the City without the Red Cross
- Uninterrupted medical services
- _____
- _____
- _____

Opportunities

- Ensure that emergency response services are able to continue operations during and after any storm event
- Ensure that people have a safe place to go to receive shelter and information on the recovery efforts
- _____
- _____
- _____

What needs and opportunities are missing?

Please write additional suggestions on your comment card.



Strategies

- Readiness for future storms
- Infrastructure resilience
- _____
- _____
- _____

What strategies could help Rye's health be more resilient?

Please write ideas on your comment card.



Housing

NEEDS

- Stop the flooding at Milton Harbor House that is due to city easement pipe overload during storms/high tide
- Stop Milton Road flooding that occurs from the illegal sump pumps that overburden the Disbrow Park valves (making the road impassable for emergency vehicles)

OPPORTUNITIES

- Additional pipe on the northeast corner of the site to handle “city” water, leaving existing pipe to handle Milton Harbor House water (this was done at southeast corner of property with great results)

STRATEGIES

- Subsidize house elevations



Economic Development



Community Planning & Capacity Building

NEEDS

- Stop wetland-fill projects in Town of Harrison that exacerbate flooding in Rye
- Increased communication with residents (particularly vulnerable populations) before storms
- Faster recovery for vulnerable populations after storms
- Emergency overnight shelters for duration of utility outages

OPPORTUNITIES

- Communication with the Town of Harrison
- Identify “good” contractors for post-storm reconstruction Strategies
- Temporary “storm relief”: High ground parking, overnight shelters, meals



Natural & Cultural Resources

NEEDS

- Nursery Field flooding abated

OPPORTUNITIES

- Revisit Nursery Field plans and see if the field exacerbates flooding in truth or perception only

STRATEGIES

- Alter Nursery Field to mitigate flooding



Health & Social Services

NEEDS

- Better flood retention on school properties
- Emergency supplies for residents following a storm, enabling them to stay home even without power (candles, non-perishable foods, etc)
- Communication channels during storms

OPPORTUNITIES

- School facilities can mitigate field flooding and surrounding area flooding
- Make information available to residents pre-storm about what supplies would be useful to have on hand immediately following a storm

STRATEGIES

- Coordinate with schools



Infrastructure

NEEDS

- Park Avenue bridge is blocked
- Dredge Beaver Brook Swamp
- Facilitate flow of water through the drains on Milton Road
- Quicker utility return to service
- Less stormwater going into sewer systems
- Existing drain pipe inventory
- Accurate maps
- Less street flooding
- Less sewer overflow



Infrastructure

OPPORTUNITIES

- Clear Park Avenue bridge
- Dredge Blind Brook
- Catchment at Airport
- Diversion at Airport
- Clean the drains on Milton Road
- Provide better stormwater management

STRATEGIES

- Brook dredging from Mamaroneck Harbor to Rye (used to be done every year)
- Stop Harrison from adding to Project Home Run
- Get rid of illegal storm/sewer line connections
- Dredge the brook – please explain the +/- of this, it seems an obvious strategy





Risk Assessment Methodology

Risk Assessment

- A Risk Assessment process is underway to evaluate the risk to assets from flooding.
- Measuring Risk Assessment is a **standardized process**, defined by the NYRCR program
- A preliminary Risk Assessment has been completed.
- Anecdotal evidence is currently being factored in, and an **updated analysis is underway**.
- The Risk Assessment process results in a Risk Score.



Risk Assessment Process

Risk Score =

HAZARD
Score

X

EXPOSURE
Score

X

VULNERABILITY
Score

*How likely is a flood?
Is flooding typically
severe or minimal?*

*Do local topography and
shoreline conditions increase
or dampen impacts?*

*How long will an asset be out
of service after a flood?*



Risk Assessment Process

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*How long will an asset be out
of service after a flood?*

All NYRCR communities use **constant hazard score**, corresponding to 100-year storm event (1% annual chance).



Risk Assessment Process

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*How likely is a flood?
Is flooding typically
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*Do local topography and
shoreline conditions increase
or dampen impacts?*

*How long will an asset be out
of service after a flood?*

Exposure is based on FEMA maps (completed), combined with documented, historic flood data (underway).

Exposure factors are defined by NYRCR Program.

Exposure factors evaluated include:

- Hazard area (extreme, high, moderate, N/A)
- Elevation
- Flood defense structures in place (flood walls, levees, etc.)
- Vegetated buffer areas or wetlands



Risk Assessment Process

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X

EXPOSURE
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VULNERABILITY
Score

*How likely is a flood?
Is flooding typically
severe or minimal?*

*Do local topography and
shoreline conditions increase
or dampen impacts?*

*How long will an asset be out
of service after a flood?*

Takes into account the asset's:

- Material strength relative to flood hazard
- Regenerative capacity

Uses **asset performance** during historic storm as predictor of vulnerability (length of service outage & degree of damage sustained).



Risk Scores

- Risk = Hazard x Exposure x Vulnerability
- Risk scores calculated using standard NYRCR risk assessment tool, developed by DOS specifically for this program.
- Scores range from 0-75

>53 = Severe risk

Serious risk: asset is in a dangerous situation. Relocation or advanced mitigation measures are a priority for these assets

24-53 = High risk

Floods could lead to significant negative outcomes

6-23 = Moderate risk

Floods would pose moderate to serious consequences, but adaptation is of lower priority due to relatively low risk

<6 = Residual risk

Floods would pose minor consequences to asset



Updated Risk Scores

- Risk Areas were updated to reflect Committee input and information from Christian Miller
 - Updates were primarily to “extreme” riverine areas that were not mapped by FEMA
 - Updates included documented repeated flooding
- Some Vulnerability data still missing, resulting in a *temporary* score of zero



How will asset classification and risk exposure be used?

- This analysis shows which assets are most likely to be impacted most significantly by flooding
- Results will be used to prioritize management measures
- Other prioritization inputs include community priorities, cost-benefit analysis and funding availability





Reconstruction & Resilience Strategies

Committee-Generated Strategies



Collaboration within the watershed to prevent riverine flooding



Readiness for future storms



Infrastructure resilience



Design for sea level rise, coastal vulnerability, & tidal impacts





Projects, Programs, & Actions

What We're Working Towards...

Project Number	Community Identifier	Last Updated	Project Name	Project Type	Project Location/ Address (approx.)	Project Location/ Municipality	Target Area	Short Project Description and Context	Description of Construction Involved	Description of Acquisition of Real Property	Proposed Start Date
<p>Instructions: One row per project. Complete all sections for which you currently have information. Other sections may be left blank and returned to at a later date. Documents referenced in instruction cells can all be found in the Attachments link to the left.</p>											
	(This column will autopopulate. please do not type in cells)	(This column will autopopulate. please do not type in cells)	LI-Nassau/Freeport (Please ensure that project name is consistent with any other materials submitted to NYRCR staff)	(Select one from the dropdown menu)	(Approximate street address for mapping purposes)	(Village/ Town/ City)	(District /neighborhood affected by project, if applicable)	(Write a short narrative about the project scope and purpose)	(Describe only capital improvements and development projects, if applicable)	(If applicable)	(i.e. groundbreaking, or start of work after all approvals and permitting complete)
Example	LI-Nassau/Freeport	11/12/13	Smith River Culvert Reconstruction	Water Control Facilities	5 Main St	SmithVile	Downtown SmithVile	Lorem ipsum	Rebuild and widen the Smith River Culvert adjacent to Downtown	Purchase small areas of adjacent parcel for access to construction site	10/31/13



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Anticipated Completion Date	Project Feasibility & Potential Challenges	Anticipated Regulatory/Agency Review Requirements	Status of Regulatory/Agency Review	Proposed Subrecipient	Description of Proposed Subrecipient Capacity	Consistency with NYRCR Program Priorities	Recovery Support Function	Additional Recovery Support Function	Is this project under multiple jurisdictions?		
(i.e. opening, ribbon-cutting, policy enactment)	(Briefly describe in narrative form)	(List and briefly describe which, if any, governmental entities or review processes will need to be engaged for this project to be approved)	(If applicable, briefly describe status of regulatory and/or agencies reviews for the project)	(i.e. The agency, department, non-profit, or other organization that will potentially be the recipient of project funds and manager of the project. This is non-binding and conceptual, and included here only for informational purposes)	(Describe the capacity of the proposed subrecipient to implement the project, i.e. experience, jurisdiction/authority, expertise, staff, access)	(See NYRCR Program Guidance for descriptions)	(See "Guidance for New York Rising Community Reconstruction Plans" pages 23-27 for details)	(If needed)	(Select Yes if project is located in multiple political jurisdictions)		
11/30/15	Lorem ipsum	DEC	Will begin 11/15/2013	SmithVile Department of Public Works	Built 2 culverts in 2011	Address short, medium, and long-term risks	Infrastructure Strategies	Natural and Cultural Resource Strategies	No		



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Potential Beneficiaries	Community Support for the Project	Potentially CDBG-DR Eligible?	National Objective	Which CDBG-DR Disaster(s)?	Connection to the Disaster	Has the Municipality Received FEMA-PA Funds?	Description of Anticipated Program Income (if any)	TOTAL PROJECT COSTS	SOURCE: CDBG-DR Funds
(Describe specific groups, communities, or organizations who may be served by the project)	(Please select from the dropdown list)	(If No, please leave blue cells blank)	(See "CDBG Program Chap3 Meeting a National Objective" for details)	(Select the applicable disaster or disasters from the dropdown menu)	(Describe as succinctly and directly as possible)	(Indicate whether the municipality where this project will be implemented has received FEMA Public Assistance funding)	(See "24 CFR 570.500 - Definitions" for details)	(This column will autosum, please do not type in cells)	(Whole dollar amounts in numerals)
Businesses and homeowners downtown with flooding issues due to inadequate existing culvert	Medium - General support, but some issues to resolve	Yes	Meet an Urgent Community Need	Sandy/Irene	Major storm rains and surges overwhelmed culvert and caused flooding		None	\$3,250,000	\$2,000,000



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SOURCE: Local Funds	Local Fund(s) Description	SOURCE: State Funds	State Fund(s) Description	SOURCE: Federal Funds	Federal Fund(s) Description	Additional Federal Fund(s) Description	SOURCE: Other Funds (inc. unlisted Federal funds)	Other Fund(s) Description	Next Steps
(Whole dollar amounts in numerals)	(Write in the names of other funding sources you have identified for the project)	(Whole dollar amounts in numerals)	(Write in the names of other funding sources you have identified for the project)	(Whole dollar amounts in numerals)	(Select primary funding source you have identified for the project)	(Describe any secondary /additional sources of federal funds identified for the project, if necessary)	(Whole dollar amounts in numerals)	(Write in the names of other funding sources you have identified for the project)	(Describe next steps in the project planning/development process and provide estimates of time to completion or deadlines)
\$1,000,000		\$200,000		\$50,000			\$0		

CDBG-DR Funding Criteria

- Funds used for recovery efforts involving
 - housing
 - economic development
 - infrastructure
 - prevention of further damage
- Funds may not duplicate funding from
 - FEMA
 - the Small Business Administration
 - the US Army Corps of Engineers



CDBG-DR Funding Criteria

- Buying, constructing, or rehabilitating public facilities (streets, neighborhood centers, sewer systems)
- Buying storm damaged properties
- Rehabilitation of storm damaged buildings
- Helping businesses retain or create jobs in disaster areas
- Public services (< 15% of grant)
- Planning and administration costs (<20% of grant)
- Code enforcement
- Debris removal



Previously Documented Projects

Sluice gate modifications
(USACE)

Stormwater Pond at
Anderson Hill Road
(USACE)

Bowman Avenue Dam
Upper Pond (USACE)

Flood retarding structures
& dikes (USDA)

Bowman Avenue Dam
Lower Pond Expansion
(USACE)

Airport detention basin
(TRC Engineers)

Pepsi-Co stormwater
management ponds
(John Meyer Consulting)



Parsons Brinckerhoff Study

Best Choices:

- Sluice gate optimization
 - Reduce Water Surface Elevation (WSE) by 1.48ft, 50-yr flood
- SUNY detention basins
 - Reduce WSE by 1.7ft, 10-yr flood
- SW2 detention basins
 - Reduce WSE by 1.46 ft, 10-yr flood
- Bowman Avenue Dam Upper Pond – Resize
 - Reduce WSE by 0.4-1.0 ft, 10-yr flood

All of the “Best Choices” projects would reduce water surface elevations during storm events.

Maximum water surface elevation reduction occurs when two or more projects are paired together.

Surveyed stream cross section, installation of stream gauges along Blind Brook main stem, and detailed detention pond grading plans, etc needed.

* Please attend Parsons Brinckerhoff’s full presentation to the City Council for a full overview



Committee-Generated Projects

NY State Thruway Water Retention Policy

Milton Harbor Dredging

Expand Strength and/or Capacity of
Sanitary Sewer System

Structured Parking Near the Train Station

Bury Power Lines Along Major Corridors



Community-Generated Projects

Expand I-95 Culvert

Widen/Deepen Blind Brook Channel

New Rye Nature Center Entrance

FEMA's Community Rating System

Systematize Pre-storm Drain Cleaning



Community-Generated Projects

Pedestrian Bridge to Disbrow Park
Have Backup Generators Available
Milton Road Drainage to Harbor
Drainage Improvements
Bridge Repairs



Community-Generated Projects

Property Buyouts in Extreme Risk Areas
Strategic Location for Fire Equipment
Relocate Locust Avenue Firehouse
Elect a City-Operated Emergency Shelter
Floodproof Municipal Facilities
Bypass Channel in Downtown Rye



Consultant-Generated Projects

Form Watershed Conservancy

Create Local/Regional Green Infrastructure Program

Enrich and Expand Wetlands/Open Space Along Blind Brook





Looking Ahead

Scheduling

- Committee meeting #7: September 30
- Committee meeting #8: October 14
- Public engagement event #3: before November 11



Draft Agenda for Next Meeting

- Presentation by GOSR on project eligibility
- Final Reconstruction and Resiliency Strategies, Projects, Programs, and Actions
- Coordinate with Regional Planning Initiatives
- Preliminary mitigated risk assessment and cost estimates for Projects, Programs, and Actions
- Outreach Options



Program Process



Geographic Scope
Storm Damage Inventory
Critical Issues
Vision Statement



Asset Inventory
Risk Areas
Risk to Assets
Needs and Opportunities



Strategies
Projects and Management Measures
Operational Arrangements



Schedule for Implementation

IN-PERSON COMMITTEE MEETINGS (roughly twice monthly)



Homework

- Define each project on the final list, give the project location, list any potential challenges, identify any partners, and gauge community support





Stay Connected & Stay Informed at
www.stormrecovery.ny.gov/nyrcr



Outreach

Organizations and Outlets

- Rye School Board
- Rye School District
- Rye City Council

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