ROCKLAND COUNTY, NEW YORK MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

Appendices october 2024

TABLE OF CONTENTS

VOLUM	EI		
Section 1.	Intro	duction	
1. 1. 1. 1. Section 2. Pl 2. 2. 2. 2. 2. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	1.1	Purpose	1-1
	1.2	Background	1-1
	1.3	Plan Organization	1-1
	1.4	The Plan Update – What is Different?	1-3
Section 2.	Planr	ning Process	
Section 1. Int 1.1 1.2 1.3 1.4 Section 2. Pla 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 Section 3. Co 3.1 3.2 3.3 3.4 3.5 3.6 3.7 Section 4 Ris 4.1 4.2	2.1	Introduction	2-2
	2.2	Organization of Key Participants	2-2
Section 1. In 1 1 1 1 1 1 1 1 1 1 1 1 1	2.3	Planning Activities	2-6
	2.4	Stakeholder Outreach and Involvement	2-8
	2.5	Public Outreach and Involvement	2-19
	2.6	Use of Existing Plans and Information	2-21
	2.7	Integration into Existing Mechanisms and Programs	2-22
	2.8	Continued Public Involvement	2-23
Section 3.	Coun	ty Profile	
Section 1. In 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3.1	General Information	3-1
	3.2	Major Past Hazard Events	3-3
	3.3	Physical Setting	
	3.4	Population and Demographics	3-9
	3.5	General Building Stock	
	3.6	Development Trends and New Development	3-26
	3.7	Community Lifelines and Critical Facilities	
Section 4	Risk /	Assessment	
	4.1	Identification of Hazards of Concern	4.1-1
Section 1. In 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	4.2	Methodology and Tools	4.2-1
	4.3	Hazard Profiles	
		4.3.1 Dam Failure	4.3.1-1

		4.3.2 Disease Outbreak	4.3.2-1
		4.3.3 Drought	4.3.3-1
		4.3.4 Earthquake	4.3.4-1
		4.3.5 Extreme Temperature	4.3.5-1
		4.3.6 Flood	4.3.6-1
		4.3.7 Landslide	4.3.7-1
		4.3.8 Severe Storm	4.3.8-1
		4.3.9 Severe Winter Storm	4.3.9-1
		4.3.10 Wildfire	4.3.10-1
	4.4	Hazard Ranking	4.4-1
Section 5.	Capabi	lity Assessment	5-1
	5.1	Update Process Summary	5-1
	5.2	Planning and Regulatory Capability	5-1
	5.3	Administrative and Technical Capabilities	5-13
	5.4	Fiscal Capabilities	5-24
	5.5	Plan Integration	5-32
Section 6.	Mitigat	tion Strategy	6-1
	6.1	Background and Past Mitigation Accomplishments	6-1
	6.2	General Mitigation Planning Approach	6-2
	6.3	Problem and Solutions Identification	6-2
	6.4	Review and Update of Mitigation Goals and Objectives	6-3
	6.5	Mitigation Strategy Development and Update	6-4
Section 7.	Plan M	aintenance Procedures	
	7.1	Monitoring, Evaluating, and Updating the Plan	7-3
	7.2	Implementation of Mitigation Plan Through Existing Programs	7-9
	7.3	Continued Public Involvement	7-10
VOLUME	П		

Section 8.	Plannin	g Partnership	8-1
	8.1	Background	8-1
	8.2	Initial Solicitation and Letters of Intent	8-1

Rockland County

Section 9	Jurisdictiona	l Annexes
	Section 9.1	Rockland County
	Section 9.2	Airmont (V)
	Section 9.3	Chestnut Ridge (V)
	Section 9.4	Clarkstown (T)
	Section 9.5	Grand View-on-Hudson (V)
	Section 9.6	Haverstraw (T) 9.6-1
	Section 9.7	Haverstraw (V)
	Section 9.8	Hillburn (V) 9.8-1
	Section 9.9	Kaser (V)
	Section 9.10	Montebello (V) 9.10-1
	Section 9.11	New Hempstead (V) 9.11-1
	Section 9.12	New Square (V)
	Section 9.13	Nyack (V) 9.13-1
	Section 9.14	Orangetown (T) 9.14-1
	Section 9.15	Piermont (V) 9.15-1
	Section 9.16	Pomona (V) 9.16-1
	Section 9.17	Ramapo (T) 9.17-1
	Section 9.18	Sloatsburg (V) 9.18-1
	Section 9.19	Spring Valley (V)
	Section 9.20	Stony Point (T) 9.20-1
	Section 9.21	Suffern (V) 9.21-1
	Section 9.22	Upper Nyack (V) 9.22-1
	Section 9.23	Wesley Hills (V) 9.23-1
	Section 9.24	West Haverstraw (V) 9.24-1

APPENDICES

- Appendix A Adoption Resolutions
- Appendix B Participation Matrix
- Appendix C Meeting Documentation
- Appendix D Public and Stakeholder Outreach

Rockland County

- Appendix E Mitigation Strategy Supplementary Data
- Appendix F Plan Maintenance
- Appendix G Critical Facilities
- Appendix H High Hazard Potential Dams

APPENDIX A. ADOPTION RESOLUTIONS

The Rockland County and municipal adoption resolutions will be included in this appendix upon receipt of the Federal Emergency Management Agency (FEMA) Approval Pending Adoption (APA) status. Please refer to Section 8 (Planning Partnership) for additional information on plan adoption procedures.

This appendix also includes an example resolution to be submitted by Rockland County and participating jurisdictions authorizing adoption of the Rockland County Hazard Mitigation Plan Update.

RESOLUTION NO. XXXX-XX A RESOLUTION OF THE Governing Body OF THE Jurisdiction Name AUTHORIZING THE ADOPTION OF THE 2024 ROCKLAND COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE

WHEREAS, Rockland County and its jurisdictions recognize the threat that natural hazards pose to people and property within Rockland County; and

WHEREAS the County and its jurisdictions have prepared a multi-hazard mitigation plan, hereby known as the 2024 Rockland County Multi-Jurisdictional Hazard Mitigation Plan Update, in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, as amended; and the National Dam Safety Program Act, as amended; and

WHEREAS the 2024 Rockland County Multi-Jurisdictional Hazard Mitigation Plan Update identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Rockland County and its jurisdictions from the impacts of future hazards and disasters; and

WHEREAS adoption by Rockland County and its jurisdictions demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2024 Rockland County Multi-Jurisdictional Hazard Mitigation Plan Update.

NOW THEREFORE, BE IT RESOLVED BY THE [JURISDICTION NAME], NEW YORK, THAT:

In accordance with (local rule for adopting resolutions), the (jurisdiction name) adopts the 2024 Rockland County Multi-Jurisdictional Hazard Mitigation Plan Update. While content related to Rockland County and [jurisdiction name] may require revisions to meet the plan approval requirements, changes occurring after adoption will not require [jurisdiction name] to re-adopt any further iterations of the plan. Subsequent plan updates following the approval period for this plan will require separate adoption resolutions.

	ADOPTED by a vote of <mark>[X</mark>	[<mark>K]</mark> in favor and	[XX] against, and	[XX] abstaining, this	[XX] day of	[Month], [Year].
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By:	(print name)
ATTEST By:	(print name)
APPROVED AS TO FORM By:	(print name)



APPENDIX B. PARTICIPATION MATRIX

The matrix in Appendix B is intended to give a broad overview of FEMA, New York State, county, municipal and stakeholder personnel that participated in the Rockland County HMP update planning process. Meeting attendees and input provided are also included. All participants were encouraged to attend the kick-off meeting and mitigation workshop. During the planning process the consultant contacted each participant to offer support, explain the process, and facilitate the submittal and review of critical documents.

The participating jurisdictions agreed to abide by the Planning Partner Expectations and Planning Partnership Guidelines which established a Steering Committee. Letters of Intent to Participate indicating municipal planning efforts are included in this appendix. The Steering Committee served as the core of the working group. Participation is defined as having input to the hazard analysis (providing critical facility, hazard event, vulnerability data), and as having participated in the mitigation workshop or alternate annex meetings as described in the HMP for the purpose of creating a mitigation strategy to be included in each municipalities annex in Section 9 (Jurisdictional Annexes).

A number of stakeholders were invited to participate in the planning process. Stakeholders were invited to meetings, asked to complete surveys, requested to provide input on their involvement in Rockland County, and review and comment on the plan. A list of stakeholders and their participation is found in Table B-2.

Table B-1. Participation Matrix

Name	Title / Position	Department/Agency/Municipality	Steering Committee Member	Planning Partnership Member	Stakeholder	Pre-Kick Off Meeting- 9/16/2023	SC Kick-off Meeting #1 - 9/26/2023	PP Kick-off Meeting - 10/4/2023	SC/PP Meeting #2 - Risk Assessment - 12/13/2023	SC/PP Meeting #3 - MAW - 12/13/2023	SC/PP/Public Meeting #4 – Draft Plan Review – 4/15/2024
Christopher Jensen	Program Coordinator	Rockland County Office of Fire and Emergency Services	х	х		х	х	х	х	Х	х
Allie Manigo	Data Entry Operator	Rockland County Office of Fire and Emergency Services	х	х		х	х	x	х	х	х
Scott Lounsbury	GIS Coordinator	Rockland County GIS (geographic information system)	x	х			х				
Doug Schuetz	Acting Commissioner	Rockland County Planning Department - Public Transit	х	x			х				
Jake Palant	Associate Planner	Rockland County Planning Department	Х	Х			х	х			Х
Rich Schiafo	Deputy Commissioner	Rockland County Planning Department	Х	Х			х	Х			
Alex Obremski	Director	Rockland County Community Development Department	x	x			х				
Mary DiStefano	Special Project Assistant	Rockland County Office for the Aging	Х	Х			х				
Eric Medina	Director of Emergency Preparedness	Rockland County Health Department	Х	Х			х				Х
Jacob King	GIS Technician II	Rockland County Planning Department	Х	Х			х				
Brianna Rosamilia	District Manager	Rockland County Department of Environment Resources - SWCD	х	х			х				х
Michael DiMola	Park Operations Manager	Rockland County Division of Environmental Resources	x	x			х				
Al Carnevale	Deputy Superintendent of Highways	Rockland County Highway Department	Х	Х			х	Х			Х
Vincent Alteri	Executive Director	Rockland County Drainage Agency	Х	Х			х				
Joseph DiCarlo	Director	Rockland County Probation Department	Х	Х			х				
Jacki Scott	Director	Rockland County Offce for People with Disabilities	Х	х			х				
Daniel Maloney	Police Officer	Clarkstown Police Department Office of Emergency Management	х	х			х	x	х	Х	
Stephen Papas	CEO	United Way of Rockland County	Х	х			х				
Jennifer Zunino-Smith	Environmental Educator	Cornell University Cooperative Extension, Rockland County	х	х	x		х		х	х	
John Queenan	Village Engineer	Village of Airmont		х			х	х	х	Х	
Julia Pagliaroli	Village Clerk/Treasurer	Village of Grand View-on-Hudson		Х				х			
George Behn	Building Inspector	Town of Haverstraw		Х							



Name	Title / Position	Department/Agency/Municipality	Steering Committee Member	Planning Partnership Member	Stakeholder	Pre-Kick Off Meeting- 9/16/2023	SC Kick-off Meeting #1 - 9/26/2023	PP Kick-off Meeting - 10/4/2023	SC/PP Meeting #2 - Risk Assessment - 12/13/2023	SC/PP Meeting #3 - MAW - 12/13/2023	SC/PP/Public Meeting #4 – Draft Plan Review – 4/15/2024
Patrick McNamee	Fire Administrator	Village of Haverstraw		X				Х			
Linda Donnelly	Principal Clerk	Village of West Haverstraw		х				Х	х	х	
Allison Weinraub	Village Clerk/Treasurer	Village of New Hempstead		Х				Х			
David Bruer	Emergency Services	Village of New Square		Х							
Mordechai Greenburg	-	Village of New Square		Х				Х			
Ann Marie Tlsty	Assistant to Village Administrator	Village of Nyack		х				Х			
Stephen Munno	Highway Superintendent	Town of Orangetown		х				х	х	Х	
Nate Mitchell	Trustee	Village of Piermont		х							Х
Joshua Hans	Program Coordinator	Town of Ramapo		х				Х	х	х	
Adam McCary	Village Commissioner	Village of Spring Valley		х				Х			
Catherine Murray	Director of Finance	Town of Stony Point		х				Х			
Karl Javenes	Highway Superintendent	Town of Stony Point		х				Х			
Georga Grandstaff	Clerk	Village of Upper Nyack		х							
Camille Guido-Downey	Village Clerk/Treasurer	Village of Wesley Hills		х							
Anthony Sparta	DPW Superintendent	Village of West Haverstraw		х				Х	х	Х	
Eve Mancuso	Village Engineer	Villages of Hillburn, Nyack, and Haverstraw		х				Х	х	х	
Haris Aljovic	Village Engineer	Villages of Chestnut Ridge, Montebello, Pomona		х				Х	х	Х	
George Behn	Building Inspector	Town of Haverstraw		х					х	х	
Michael Kohut	-	Village of Haverstraw		х					х	Х	
Binyomin Mermelstein	Clerk/Treasurer	Village of Kaser		х					х	х	
Andy Stewart	Administrator	Village of Nyack		х					х	х	
Jennifer DeYorki Maher	Clerk/Treasurer	Village of Piermont		х					Х	х	
Michael Klatsky	-	Town of Ramapo							Х	х	
Matthew Jones	Department of Community Development	Village of Spring Valley							Х	х	Х
Raymond Canario	Building and Public Works	Village of Spring Valley		х					Х	Х	
John Hager	Building Inspector	Town of Stony Point							Х	х	
Charles W. Sawicki	Director of Public Works	Village of Suffern		Х					Х	Х	
Camille Guido-Downey	Village Clerk/Treasurer	Village of Wesley Hills		Х					Х	х	
Martin Spence	Village Engineer	Village of Montebello		Х				Х			
Georgia Grandstaff	Clerk	Village of Upper Nyack		Х				Х			



Name	Title / Position	Department/Agency/Municipality	Stakeholder Type	Notified of Planning Process	Invited to Meetings	Attended Meetings	Invited to Take Survey	Completed Survey	Notified of Posting of Draft Plan
Anthony Valenti	Facilities	Clarkstown Central School District	Academia	X - 11/30/2023	х		х	х	х
Katherine Bunting-Howarth	Assistant Director	Cornell Cooperative Extension	Academia	X - 11/30/2023	Х		Х	Х	Х
Jennifer Zunino-Smith	Environmental Educator	Cornell University Cooperative Extension, Rockland County	Academia	X - 11/30/2023	х		Х		х
Mario Spagnuolo	-	Nanuet UFSD	Academia	X - 11/30/2023	х		х	х	х
-	Superintendent	North Rockland School District	Academia	X - 11/30/2023	х		х		х
-	Superintendent	Ramapo Central School District	Academia	X - 11/30/2023	х		х		х
Brian Culot, Ed.D.	Superintendent	South Orangetown Central School District	Academia	X - 11/30/2023	х		х		х
Patrick Breen	Director of School Safety and Special Projects	Suffern Central School District	Academia	X - 11/30/2023	х		х	х	х
Niles Davies	Emergency Management	Clarkstown Police Department	Emergency Services (police/fire/EMS)	X - 11/30/2023	х		х	х	х
Joseph Lehmann	Operations	Hatzoloh EMS of Rockland County	Emergency Services (police/fire/EMS)	X - 11/30/2023	х		х	х	х
Michael Begbie	Fire Chief	Haverstraw Fire Department	Emergency Services (police/fire/EMS)	X - 11/30/2023	х		х		х
-	Administration	Nanuet Fire Department	Emergency Services (police/fire/EMS)	X - 11/30/2023	х		х		х
-	Administration	Orangeburg Fire	Emergency Services (police/fire/EMS)	X - 11/30/2023	х		х		х
Glenn Carella	Communications liaison	RACES	Emergency Services (police/fire/EMS)	X - 11/30/2023	х		х	х	х
-	Administration	Tappan Fire District	Emergency Services (police/fire/EMS)	X - 11/30/2023	х		х		х
Nathan Mitchell	Trustee and Chair Waterfront Resiliency Commission	Village of Piermont	Emergency Services (police/fire/EMS)	X – 11/30/2023	x		x	х	x
Mariam Jean	Administrator	All Care Home Health Services LLC	Hospitals/Medical Services	X - 11/30/2023	х		х	х	х
Marcy K Reposa	Homecare Agency	EverCare at Home [CHHA]	Hospitals/Medical Services	X - 11/30/2023	х		х	х	х



Name	Title / Position	Department/Agency/Municipality	Stakeholder Type	Notified of Planning Process	Invited to Meetings	Attended Meetings	Invited to Take Survey	Completed Survey	Notified of Posting of Draft Plan
Gary Higgins	Dialysis Clinic Manager	Fresenius Dialysis Valley Cottage	Hospitals/Medical Services	X – 11/30/2023	Х		_	_	Х
Robert Mackay	Director of Operations	Fresenius Medical Care	Hospitals/Medical Services	X - 11/30/2023	Х		Х	Х	Х
Jimmy Isabelle	Director of Maintenance & Emergency Preparedness	Friedwald Center For Nursing & Rehabilitation	Hospitals/Medical Services	X - 11/30/2023	х		х	х	х
Colleen Nunes	Administrator	Home Care	Hospitals/Medical Services	X - 11/30/2023	х		х	х	х
John F Gagliardo	Director of Facilities	NYSDOH Helen Hayes Hospital	Hospitals/Medical Services	X - 11/30/2023	Х		Х	х	х
-	Administration	Old Peoples Home of the Russian Orthodox Convent "Novo- Diveevo"	Hospitals/Medical Services	X - 11/30/2023	х		х		х
Barbara Mazur	Health Care	Revival Home Health Care	Hospitals/Medical Services	X - 11/30/2023	х		х	х	х
Jose Sustento	Administrator	Rockland County Dialysis - Davita	Hospitals/Medical Services	X - 11/30/2023	х		х	х	х
Kim Furphy	Administrator	Tappan Zee Manor	Hospitals/Medical Services	X - 11/30/2023	х		х	х	х
-	Administration	Tolstoy Foundation Rehabilitation & Nursing Center	Hospitals/Medical Services	X - 11/30/2023	х		х		х
Cara Pace	Chief Executive Officer	United Hospice	Hospitals/Medical Services	X - 11/30/2023	Х		х	х	х
Richard Grady	OSHA Compliance Officer	Venture Together	Hospitals/Medical Services	X - 11/30/2023	х		х	х	х
-	OEM Coordinator	Alpine, NJ	Neighbor	X - 11/30/2023	Х		х		х
Ronald Salzano	OEM	Bergen County (NJ) Office of Emergency Management	Neighbor	X - 11/30/2023	х		х	х	х
-	OEM Coordinator	Cortlandt, NY	Neighbor	X - 11/30/2023	Х		х		х
-	OEM Coordinator	Greenburgh, NY	Neighbor	X - 11/30/2023	х		х		х
-	OEM Coordinator	Highlands, NY	Neighbor	X - 11/30/2023	х		х		х
Raymond Roe	Emergency Management	Mahwah, NJ	Neighbor	X - 11/30/2023	х		х	х	х
-	OEM Coordinator	Montvale, NJ	Neighbor	X - 11/30/2023	х		х		х
-	OEM Coordinator	Mount Pleasant, NY	Neighbor	X - 11/30/2023	х		х		х
-	OEM Coordinator	Northvale, NJ	Neighbor	X - 11/30/2023	Х		х		х



Name	Title / Position	Department/Agency/Municipality	Stakeholder Type	Notified of Planning Process	Invited to Meetings	Attended Meetings	Invited to Take Survey		Notified of Posting of Draft Plan
-	OEM Coordinator	Old Tappan, NJ	Neighbor	X – 11/30/2023	Х	?	x	_	Х
Alan J. Sorensen, AICP	Planning Commissioner	Orange County (NY) Department of Planning	Neighbor	X - 11/30/2023	X		x		х
Alan C. Mack	Deputy Commissioner	Orange County (NY) Division of Emergency Management	Neighbor	X – 11/30/2023	Х	2	х		х
-	OEM Coordinator	Ossining, NY	Neighbor	X - 11/30/2023	X		х		х
Sherrif Richard Berdnik	Police Academy Director	Passaic County (NJ) Office of Emergency Management/Public Safety Academy	Neighbor	X - 11/30/2023	x	:	x	1	х
Andras Holzmann	Director	Passaic County (NJ) Planning	Neighbor	X - 11/30/2023	х	;	х		х
-	OEM Coordinator	Peekskill, NY	Neighbor	X - 11/30/2023	х	į	х		х
-	OEM Coordinator	Philipstown, NY	Neighbor	X - 11/30/2023	х		х		х
Robert Lipton	Commissioner	Putnam County (NY) Bureau of Emergency Services	Neighbor	X - 11/30/2023	х	-	х		х
-	Planning Director	Putnam County (NY) Planning	Neighbor	X - 11/30/2023	х		x		х
John Guglielmotti	River Vale Police Department	River Vale, NJ	Neighbor	X - 11/30/2023	х		хх	x :	х
-	OEM Coordinator	Rockleigh, NJ	Neighbor	X - 11/30/2023	х	1	х		х
Heather Brown	Planner	Sullivan County Division of Planning, Community Development, and Environmental Management	Neighbor	X - 11/30/2023	x		x		х
John Hauschild	ΟΕΜ	Sullivan County Office of Emergency Management/Homeland Security	Neighbor	X — 11/30/2023	x	1	x		х
-	OEM Coordinator	Tuxedo, NY	Neighbor	X - 11/30/2023	х	-	x		x
-	OEM Coordinator	Upper Saddle River, NJ	Neighbor	X - 11/30/2023	х	1	х	Τ	х
Daniel Olmoz	EMC	Westchester County (NY) Department of Emergency Services	Neighbor	X - 11/30/2023	х		x x	x :	х
-	Planning Director	Westchester County (NY) Planning Department	Neighbor	X - 11/30/2023	x		х		x
-	OEM Coordinator	Woodbury, NY	Neighbor	X - 11/30/2023	х	-	х		х
Brian Gerber	Disaster response and recovery	American Red Cross	Non-Profit/Business/Commerce	X - 11/30/2023	х		x x	x :	х
Daniel Eudene	Executive Director	Catholic Charities Community Services of Rockland	Non-Profit/Business/Commerce	X - 11/30/2023	х	Ì	х		х



Name	Title / Position	Department/Agency/Municipality	Stakeholder Type	Notified of Planning Process	Invited to Meetings	Attended Meetings	Invited to Take Survey	Completed Survey	Notified of Posting of Draft Plan
-	Administration	Center for Safety and Change	Non-Profit/Business/Commerce	X - 11/30/2023	Х		Х		х
Margo Saich	Administration	Dominican Sisters	Non-Profit/Business/Commerce	X – 11/30/2023	Х		Х	Х	Х
Michael Caglione	Director of Facility	Facilities	Non-Profit/Business/Commerce	X - 11/30/2023	Х		х	х	х
Robin E Rosenberg	-	Garnerville Arts & Industrial Center	Non-Profit/Business/Commerce	X - 11/30/2023	Х		х	х	х
-	Administration	Keep Rockland Beautiful Inc.	Non-Profit/Business/Commerce	X - 11/30/2023	Х		Х		х
-	Administration	Lower Hudson Coalition of Conservation Districts (LHCCD)	Non-Profit/Business/Commerce	X - 11/30/2023	х		х		х
-	Administration	People to People	Non-Profit/Business/Commerce	X - 11/30/2023	Х		х		х
Al Samuels	President/CEO	Rockland Business Association	Non-Profit/Business/Commerce	X - 11/30/2023	х		х		х
-	Administration	Rockland Community Foundation	Non-Profit/Business/Commerce	X - 11/30/2023	Х		х		х
-	Administration	Rockland Economic Development Corporation	Non-Profit/Business/Commerce	X - 11/30/2023	х		х		х
Sr Michele Yakymovitch	Administrator	St. Joseph's Home	Non-Profit/Business/Commerce	X - 11/30/2023	Х		х	х	х
Suzanne Barclay	Executive Director	Stormwater Consortium of Rockland County	Non-Profit/Business/Commerce	X – 11/30/2023	Х		х		х
Stephen Papas	CEO	United Way Rockland County	Non-Profit/Business/Commerce	X – 11/30/2023	Х		х		х
Daniel Maloney	Emergency Management Coordinator	Clarkstown Police Department	Public Works/Transportation	X - 11/30/2023	x	x	х	х	х
Jonathan Abrams	Supervisor	Department of Public Works	Public Works/Transportation	X - 11/30/2023	Х		х	х	х
Tom Temple	Infrastructure	Piermont Department of Public Works	Public Works/Transportation	X - 11/30/2023	х		х	х	х
Alfred Carnevale	County Roads and Bridges	Rockland County Highway Department	Public Works/Transportation	X - 11/30/2023	х		х	х	х
Mary Hahn	Village Clerk	Sloatsburg Public Works	Public Works/Transportation	X - 11/30/2023	х		х		х
J Bart Gordon	ROADS	Town of Haverstraw Highway Department	Public Works/Transportation	X – 11/30/2023	х		х	х	х
George E. Wargo Jr.	Superintendent of Highways	Town of Haverstraw Highway Department	Public Works/Transportation	X - 11/30/2023	х		х		х
Michael Sadowski. P.E	Deputy Director of Public Works	Town of Ramapo Department of Public Works	Public Works/Transportation	X - 11/30/2023	x		x		x



Name	Title / Position	Department/Agency/Municipality	Stakeholder Type	Notified of Planning Process	Invited to Meetings	ided Meet	Invited to Take Survey	Compreted out vey Notified of Posting of Draft Plan
Andrew Stewart	Village Admin	Village Admin, Village of Nyack	Public Works/Transportation	X - 11/30/2023	Х	х	хх	X
Osvaldo Reyes	Commissioner of Public Works	Village of Haverstraw DPW	Public Works/Transportation	X - 11/30/2023	х		x x	x
Osvaldo Reyes	Commissioner	Village of Haverstraw DPW	Public Works/Transportation	X - 11/30/2023	х		хх	x
-	Administration	Village of Haverstraw Highway Department	Public Works/Transportation	X - 11/30/2023	Х		х	x
-	Administration	NRG Bowline LLC	Utility Providers	X - 11/30/2023	х		х	х
Michael R. Saber, P.E.	Executive Director	Rockland County Sewer District #1	Utility Providers	X - 11/30/2023	х		х	х
-	Administration	Rockland County Solid Waste Management Authority	Utility Providers	X - 11/30/2023	х		х	х



APPENDIX C. MEETING DOCUMENTATION

Appendix C includes meeting agendas, sign-in sheets, and minutes (where applicable and available) for meetings convened during the development of the Rockland County Hazard Mitigation Plan Update.

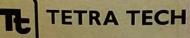
Rockland County | Hazard Mitigation Plan 2024 Update Meeting Sign-In Sheet

Rockland County

C

Meeting Date:Tuesday, September 26, 2023Meeting Location:Rockland County Fire Training CenterMeeting Topic:HMP Steering Committee Kick-Off Meeting

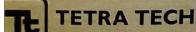
Name	Title	Department/Agency	Email
PIllie Manigo	Data Entry	FiredEmergency	Mangoolaco. Rockland. Ny. US
Christopha Sensen	Coordinata	Fire+ Emergeny	SENSENCE CO, ROCKlending, US
Scon Lounsburg	GIS Coordinator	Cly GIS	lounsbuse co. rockland. my. us
Daniel Malancy	Clarkstonn P.D. DEM	CPD	d. makiney @ clorkstown po.org
Porg Schutftz	Acting Comminner	CPD Public Trans RC Planning Sept	schretzd pco. rockland, np. us
Jake Palant	Associate Planner	RC Planning Dept	palant Jaco. rockland. ny. us
Rich Schafe	Pep. + Commissioner	Planny	schiefer i ····
alex S Obremstu		Community De	obremska@"
Mary Distuano	Director Special Proj. Asst.	OFA	distefame co. Rockland
EAIL Medina	Div. Em Preparatues	Health	Medinae
Jacob King	GIS Technicion II		Kingj@co.rockland.ny.us
Brianna Rosamilia	District Mounager	DER SwcD	rosamilb@carockland



2024 | HAZARD MITIGATION PLAN - ROCKLAND COUNTY, NEW YORK

Rockland County | Hazard Mitigation Plan 2024 Update Meeting Sign-In Sheet

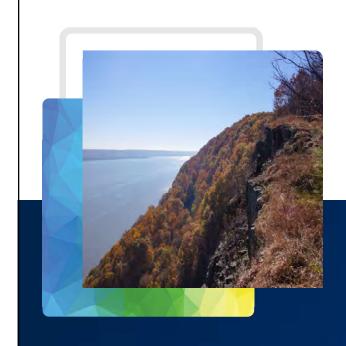
Name Email Title Department/Agency MICHAR DIMOLA dinslan QCo. ruckladiny. 15 PARKS OPS MANNEON NC DEN Al Conevale Vincent Arring Deputy Supt of Highwys RCHD Dir., Dramage Ag RCDD Carnessa @co. rockland.ny.us altieniva augh Di Carlo Protector Proctor Prohutur Dicarlo, C. co. rocked. NYNS Director Jacki Scott DBL scotti Deo.rockland.ny.US Spapas Ouwre.org Stephen Papas UWRC CEO



Rockland County







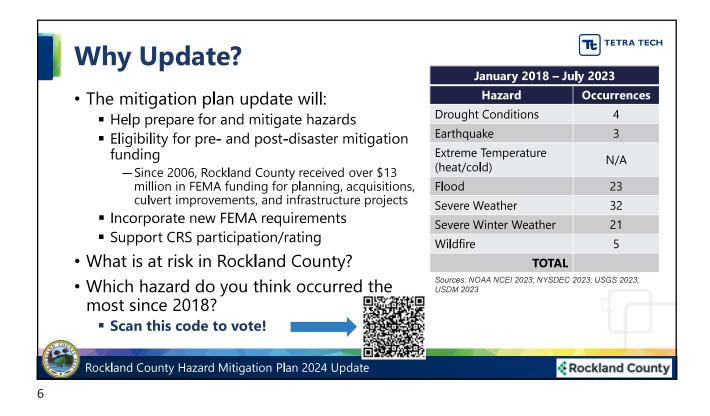
Hazard Mitigation Overview

Mitigation planning happens <u>before</u> a disaster strikes. It results in safer, more resilient communities – reducing risk for the residents, businesses, and critical services in Rockland County.

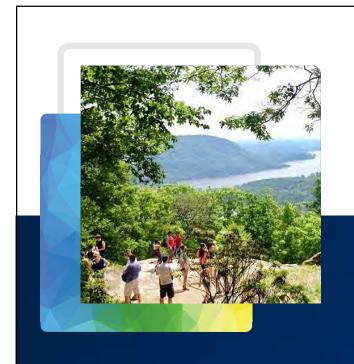








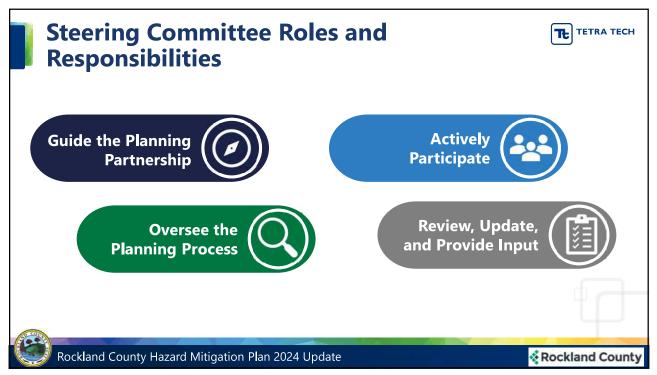


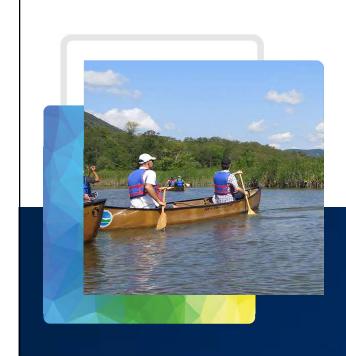


Project Organization

Working with individuals, agencies, neighboring jurisdictions, businesses, and other partners for a successful mitigation planning process.



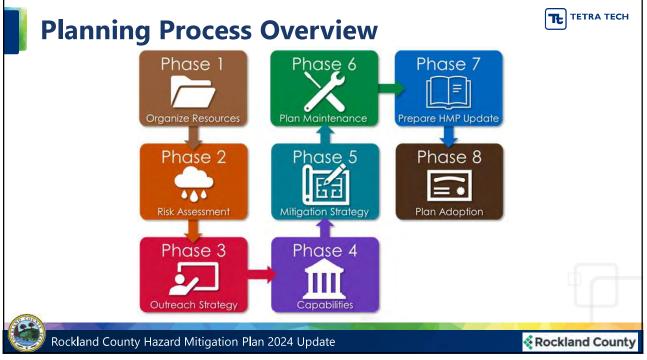




Planning Process Overview

A well-defined planning process is <u>essential</u> to the success of Rockland County's HMP Update.

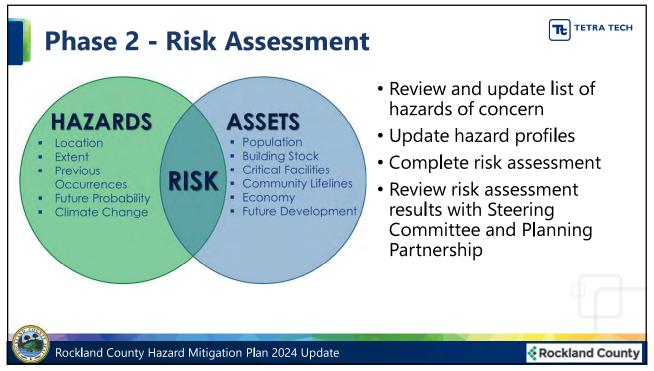
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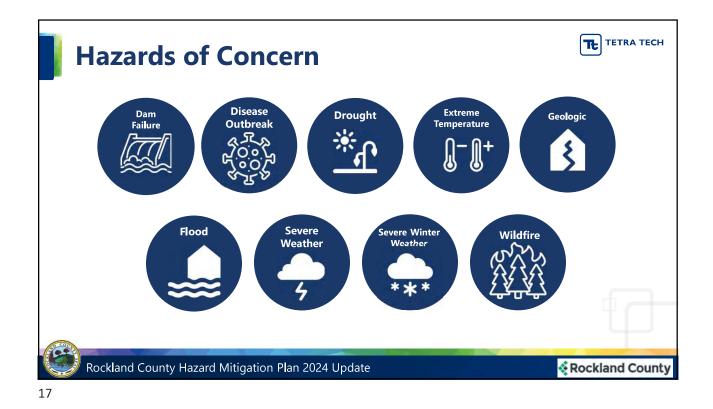


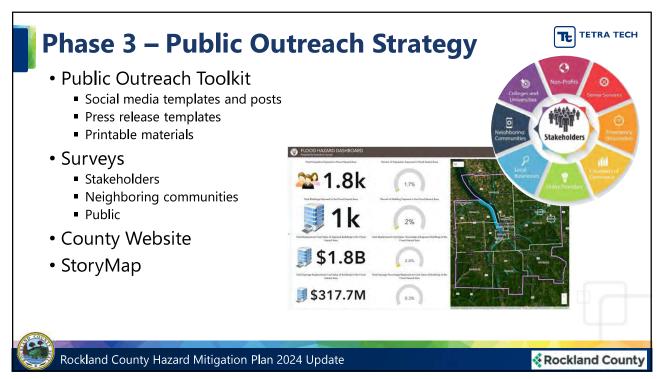


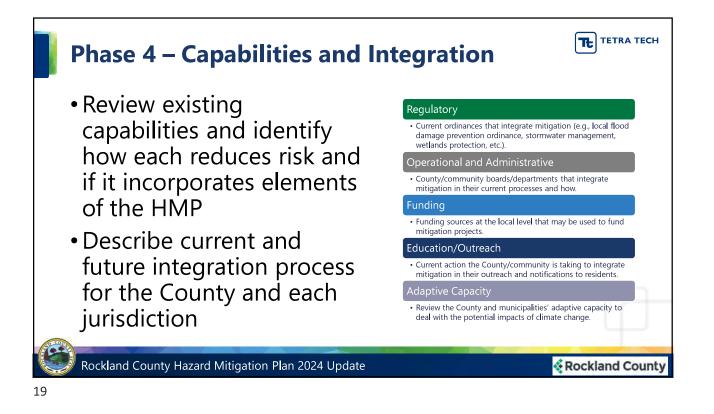


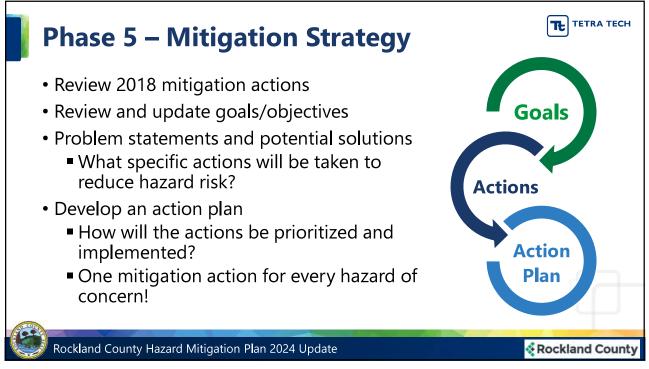


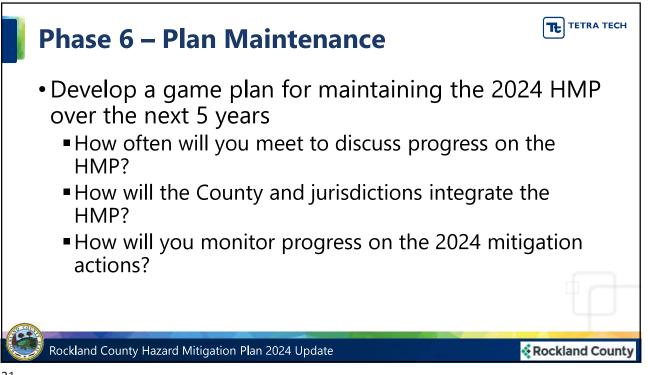




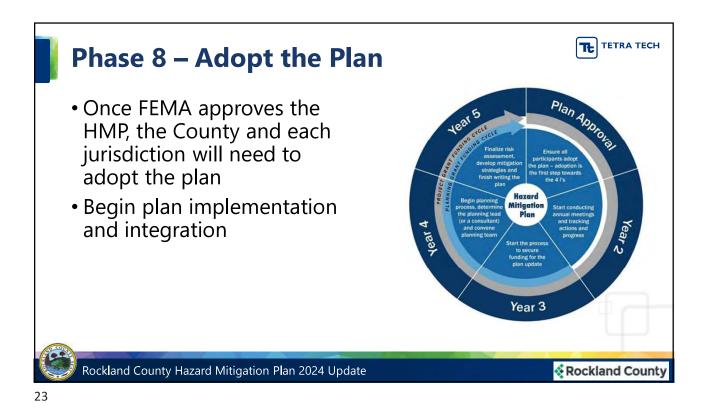




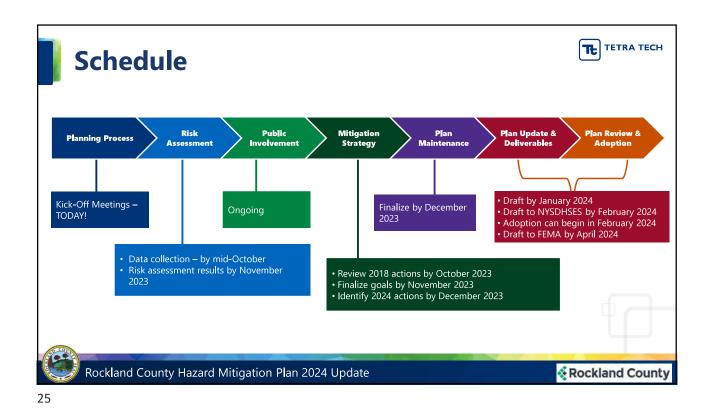


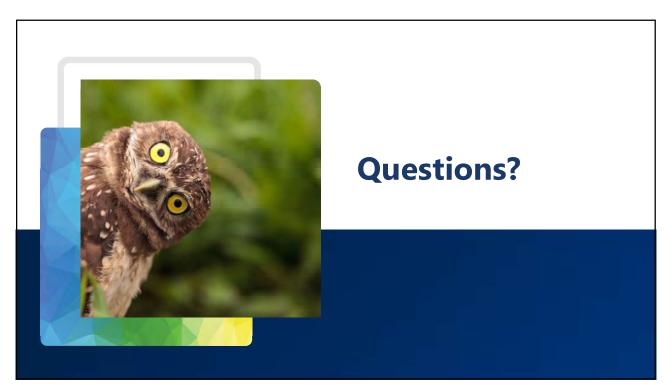


Sample Adoption Resolution	Planning Team
Participation Matrix	Jurisdictional Annexes (25)
Meeting Documentation	
Public and Stakeholder Outreach	
Risk Assessment Information	
Mitigation Strategy Support	
Documentation	
Plan Maintenance Tools	
Linkage Procedures (if applicable)	
Critical Facilities	
High Hazard Potential Dam (HHPD)	
	Participation Matrix Meeting Documentation Public and Stakeholder Outreach Risk Assessment Information Mitigation Strategy Support Documentation Plan Maintenance Tools Linkage Procedures (if applicable) Critical Facilities











Rockland County, NY – Hazard Mitigation Plan 2024 Update Steering Committee Kick-Off Meeting | Minutes



	of Meeting:	Steering Committee Kickoff				
Location of	of Meeting:	Rockland County Fire Training Center, Pomona, NY				
Date of N	leeting:	September 26, 2023 10:00AM –	ptember 26, 2023 10:00AM – 11:00AM			
Attendees:	 Allie Manig Scott Loun: Doug Schut Jake Palant Rich Schiaf Alex Obren Mary DiSte Eric Medin: Jacob King, Brianna Ro Michael Dil Al Carneva Vincent Alt Joseph DiC 	n, Fire and Emergency o, Fire and Emergency	Emergency Services (NY Non-governmental Organ	nt ion of Homeland Security & /S DHSES) anizations Way of Rockland County Fech		
Agenda Su Item No.	overvi	rpose of the meeting was to introduce ew of the hazard mitigation planning pr e the hazards of concern. Description	-			
1		son was asked to share their name and	department	-		
1 2	 Each per Hazard Mitigation Mitigation Mitigation A Hazard hazards hazards. 	n Overview on is a sustained action taken to reduce perty from a hazard event I Mitigation Plan (HMP) provides an ove on communities and is a roadmap to re Attendees were asked to take a quick p occurring the most in the County since storms and winter storms 2024 update, we will be following the re	or eliminate long-term risk to life erview of the impacts of natural ducing the impact of these coll related to the hazards 2021; majority indicted severe	-		



Rockland County, NY – Hazard Mitigation Plan 2024 Update Steering Committee Kick-Off Meeting | Minutes



	 objectives, finalize the list of hazards of concern, and identify mitigation actions. Planning Partnership – represents the participating jurisdictions. They will attend meetings, provide information, identify mitigation actions, and adopt the HMP. Stakeholders - must be engaged throughout the planning process. At a minimum, this group should include neighboring counties, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia, and other private and nonprofit organizations. We will put together a draft list of stakeholders and ask for your input. 	
	 DHSES - provide the County guidance throughout the HMP update and will review/approve the plan before it is submitted to FEMA. 	
4	Planning Process Overview	Tetra Tech
~	 Following an eight-phase approach to update the HMP Planning Process – ongoing throughout the update Risk Assessment – identifies the risks of each hazard included in the plan Dam Failure Disease Outbreak Drought 	 Provide outreach materials Send social vulnerability method for review
	 Extreme Temperature Flood Geologic Hazards Severe Weather Severe Winter Weather Wildfire 	 Steering Committee Provide input on the hazards of concern (link) Assist with public outreach using
	 3. Public Involvement Strategy – ongoing throughout the plan update; we will use the County's website and StoryMap to help with outreach New FEMA guidance emphasizes outreach to socially vulnerable communities and to include these populations in the Risk Assessment Steering Committee members suggested the following categories for inclusion in the social vulnerability analysis Uninsured population Families without vehicles Renters versus owners Increased poverty threshold (30, 50, or 80% of area median income (AMI)) 	 materials provided by Tetra Tech Provide input on 2018 mitigation actions
	 Steering Committee members suggested the following locations for print materials Libraries Food pantries Nonprofit organizations Family resource centers Doctors' offices Laundromats Houses of worship Mitigation Strategy – review/finalize goals/objectives for 2024 HMP; 	
	review existing capabilities; review 2018 mitigation strategies and provide status; identify new strategies for the 2024 update	



Rockland County, NY – Hazard Mitigation Plan 2024 Update Steering Committee Kick-Off Meeting | Minutes



	5. Plan Maintenance – determine the maintenance schedule of the 2024 HMP	
	6. Plan Update and Deliverables – update all sections of the HMP; provide	
	to DHSES and FEMA for review and approval	
	7. Plan Adoption – the County and each participating municipality will	
	adopt the plan after the HMP is approved by FEMA	
	8. Project Management and Coordination – ongoing throughout the update	
5	Project Schedule	-
	 Steering Committee Kick-Off – September 26, 2023 	
	 Planning Partnership Kick-Off – October 4, 2023 	
	 Finalize goals, objectives, and hazards of concern – mid-October 	
	Risk Assessment Meeting – November 2023	
	Mitigation Strategy Meeting – December 2023	
	Plan maintenance – December 2023	
	Public Draft – January 2024	
	Draft to State for Review – February 2024	
	Plan Adoption – February 2024	
	Final Draft to FEMA – April 2024	
6	Next Steps	Tetra Tech
	Steering Committee and Planning Partnership to provide input on problem areas	• N/A
	and new development	Steering Committee
	 Problem areas - <u>https://arcg.is/1Svra01</u> 	 Provide input on
	 New Development - <u>https://arcg.is/1f5qaX</u> 	problem areas -
	 Departments to share outreach materials and relevant data sources 	https://arcg.is/1Svra0
	 Please send screenshots/links to Tetra Tech so we can document in the 	<u>1</u>
	plan	 Provide input on new
		development -
		https://arcg.is/1f5qaX



Rockland County | Hazard Mitigation Plan 2024 Update Meeting Sign-In Sheet

Meeting Date:	Wednesday, October 4, 2023 10:00 am
Meeting Location:	Rockland County Fire Training Center
Meeting Topic:	HMP Planning Partnership Kick-Off Meeting

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present
Rockland County	Altieriv, Vincent	Executive Director	Rockland County Drainage Agency	altieriv@co.rockland.ny.us	1
Rockland County	Carnevale, Alfred	Deputy Superintendent of Highway	Rockland County Highway Department	carnevaa@co.rockland.ny.us	V
Rockland County	DiCarlo, Joseph	Director	Rockland County Probation	DiCarloJ@co.rockland.ny.us	
Rockland County	Dimola, Michael	Parks Operation Manager	Rockland County Park System	dimolam@co.rockland.ny.us	
Rockland County	DiStefano, Mary Ellen	Special Proj. Asst.	Rockland County Office for the Aging	distefam@co.rockland.ny.us	
Rockland County	Jensen, Christopher	Coordinator	County Fire and Emergency Services	jensenc@co.rockland.ny.us	
Rockland County	King, Jacob	GIS Technician	Rockland County Department of Planning	kingj@co.rockland.ny.us	
Rockland County	Lounsbury, Scott	GIS Coordinator	County GIS	lounsbus@co.rockland.ny.us	
Rockland County	Manigo, Allie	Data Entry	County Fire and Emergency Services	manigoa@co.rockland.ny.us	1
Rockland County	Medina, Eric	Director Emergency Preparedness	Rockland County Health	medinae@co.rockland.ny.us	12-16-
Rockland County	Obremski, Alex	Director	Community Development	obremska@co.rockland.ny.us	
Rockland County	Palant, Jake	Associate Planner	Rockland County Department of Planning	palantj@co.rockland.ny.us	
Rockland County	Papas, Stephen	CEO	United Way Rockland County	spapas@uwrc.org	
Rockland County	Robles, Martha	Director	Rockland County Office for the Aging	roblesma@co.rockland.ny.us	
ockland County	Rosamilia, Brianna	District Manager	Rockland County Dept. Environmental Services/SWCD	rosamilb@co.rockland.ny.us	
ockland County	Schiafo, Rich	Deputy Commissioner	Rockland County Department of Planning	schiafr@co.rockland.ny.us	V
ockland County	Schuetz, Doug	Acting Commissioner	Rockland County Department of Planning	schuetzd@co.rockland.ny.us	10-23
ockland County	Scott, Jacki	DIFFLUI	Rockland County Office for People with Disabilities	scottj@co.rockland.ny.us	
rmont (V)	Queenan, P.E., John	Village Engineer		jq@lanctully.com	1/
mont (V)	Ricker, Beth	Administrative Assistant		bmr@lanctully.com	
rkstown (T)	Fay, James	Captain	Contraction and	J.Fay@clarkstownpd.org	
rkstown (T)	Maloney, Dan	Seargent		D.Maloney@clarkstownpd.org	1

Rockland County | Hazard Mitigation Plan 2024 Update Meeting Sign-In Sheet

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present?
Grand View-on-Hudson (V)	Pagliaroli, Julie	Village Clerk/Treasurer	\bigcirc	clerk@gvoh-ny.gov	-
Haverstraw (T)	Behn, George	Building Inspector		gbehn@townofhaverstraw.org	
Haverstraw (T)	Gamboli, Michael	Director Finance		mgamboli@townofhaverstraw.org	
Haverstraw (V)					
Hempstead (V)	McCreedy, Glenn	Village Engineer		gmccreedy@civildesignworks.com	/
Hempstead (V)	Weinraub, Allison	Village Clerk/Treasurer	1200	aweinraug@newhampstead.org	V
Hillburn (V)	Marabo E	Ell Village End	1 Therews		
Kaser (V)	Merelstein, Binyomin	Clerk/Treasurer		kaser@ksrnet.com	
Montebello (V)	Millman, Lance	Mayor	and the second second second	mayor@villageofmontebello.com	
Montebello (V)	Spence, Martin	Village Engineer	HARS ALGORIC	mkspence@spenceengineer.com	V
New Hempstead (V)					
New Square (V)					
Nyack (V)	Stewart, Andy	Village Administrator		administrator@nyack-ny.gov	NO
Nyack (V)	Tlsty, Ann Mari	Assistant to Village Administrator	Annelaria	annmariet/sty@nyack-ny.gov	V
Orangetown (T)	Dean, James	Superintendent of Highways		S jdean@orangetown.com	
Orangetown (T)	Munno, Stephen	Senior Administrative Assistant		smunno@orangetown.com	
Piermont (V)	DeYorki Maher, Jennifer	Clerk/Treasurer	A.A.	clerk@piermont-ny.gov	
Piermont (V)	Mitchell, Nate	Trustee	TATA	nmitchell@piermont-ny.gov	
Pomona (V)					/
tamapo (T)	Hans, Joshua	Program Coordinator	hh	hansJ@ramapo.org	V
amapo (T)	Montal, Mona	Chief of Staff	n i	montalm@ramapo.org	
loatsburg (V)	Manauss 1	-up Village BI	& Omne		-
pring Valley (V)	Canario, Raymond	Building and Public Works		rcanario@villagespringvalley.org	
pring Valley (V)	McCarey, Adam	Village Commissioner	AB	amccarey@villagespringvalley.org	V
tony Point (T)	Joachim, Paul	Deputy Supervisor	1	pjoachim@townofstonypoint.org	
tony Point (T)	Monaghan, Jim	Supervisor		Supervisor@townofstonypoint.org	
uffern (V)					1235

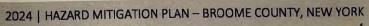
Rockland County | Hazard Mitigation Plan 2024 Update Meeting Sign-In Sheet

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present?
Upper Nyack (V)	Georgia	Clerk		Village. Clerk Quepernyck	14-ny.us
Wesley Hills (V)	Guido-Downey, Camille	Village Clerk/Treasurer		villageclerk@wesleyhills.org	V
Wesley Hills (V)	Katz, Marshall	Mayor	and the second second second	mayor@wesleyhills.org	
West Haverstraw (V)	Anthonespar	the Superintender)	asparta Ewest Ha	ValstRAN

Name	Jurisdiction	Title	Email
Patrick m WAMES	VILLASE OF HAVESTRAN	FIRE A 2 MINISTRATO	patene 38@ Ad. Com
HARIS ALJONIC	VILLAGES OF: CHESTUUT PIDGE, MIGNTEBELLO & POMONIA	VILLAGE BINGWIBBIL OFFICE	HALJOVIC @ SPENCEENGWBER.com
Georgia Grandstaff	Village of Upper Nyock	Clerk	villagesclerkouppenyack-ngins
CAMPER, NE MURLAY	TOWN OF STONY POINT	DIRECTOR AFFINANC	villagesclerkauppenyack-ngins CMUMMANQ TOWN of STONY 2 POINT OF G.
Karl Javenes	Tom of Story Point	Superintendent of High	AV OF STONY POINT. OFG. AWEINFAUD ONEWWINE STENS. Drg.
Allison Weinlaub	U. (luge of New Hemps	er Village Chesk	pweinraub QNewhind Stens. prg
Mancuso, Eve	Village of New Hemps Vinage of Myack Haterstrum	Village Bag	Eman auso Ering icm
Stephen FMunro	Town of Orangetaun		Smunnoe orangetown.com
LindeDonalk	Vof D Vavastan		Ilivsey does the service . one
Mordechai Graentin	VofNew Syrame		Motty 60@gumil. com
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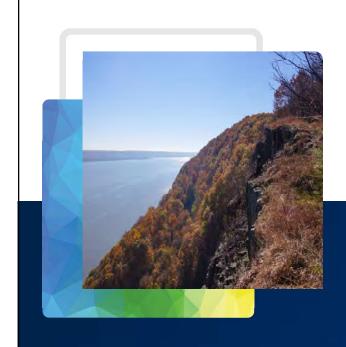


Rockland County | Hazard Mitigation Plan 2024 Update Meeting Sign-In Sheet

Name	Jurisdiction	Title	Email
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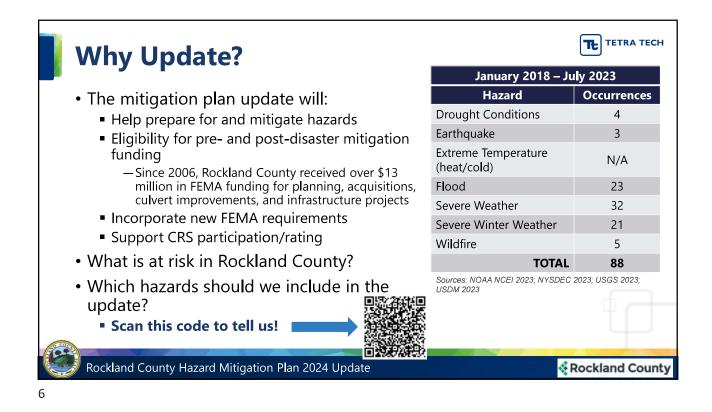


Hazard Mitigation Overview

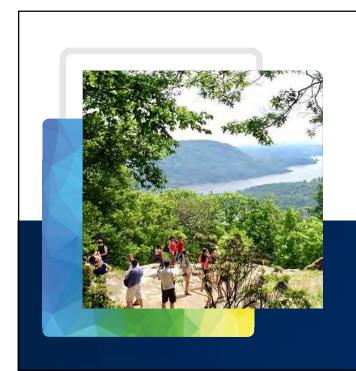
Mitigation planning happens <u>before</u> a disaster strikes. It results in safer, more resilient communities – reducing risk for the residents, businesses, and critical services in Rockland County.







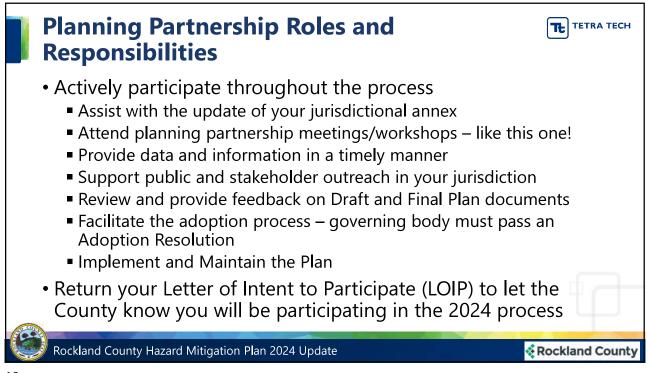




Project Organization

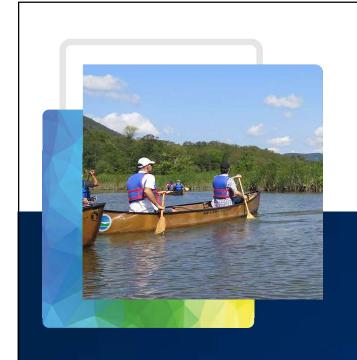
Working with individuals, agencies, neighboring jurisdictions, businesses, and other partners for a successful mitigation planning process.





lurisdiction	LOIP Received?	Jurisdiction	LOIP Received?
Airmont (V)	Х	Orangetown (T)	Х
Chestnut Ridge (V)		Piermont (V)	х
Clarkstown (V)	Х	Pomona (V)	
Grand-View-on- Hudson (V)	х	Ramapo (T)	Х
Haverstraw (T)	Х	Sloatsburg (V)	
Haverstraw (V)		Spring Valley (V)	Х
Hillburn (V)		Stony Point (T)	Х
Kaser (V)	Х	Suffern (V)	
Montebello (V)	Х	Upper Nyack (V)	
New Hempstead (V)	Х	Wesley Hills (V)	Х
New Square (V)		West Haverstraw (V)	
Nyack (V)	Х		

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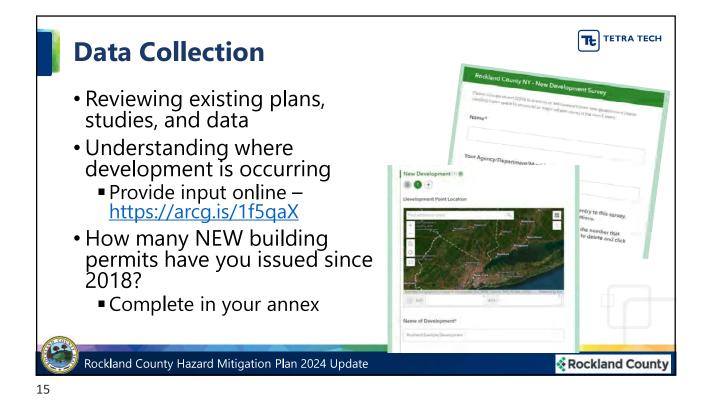


Planning Process Overview

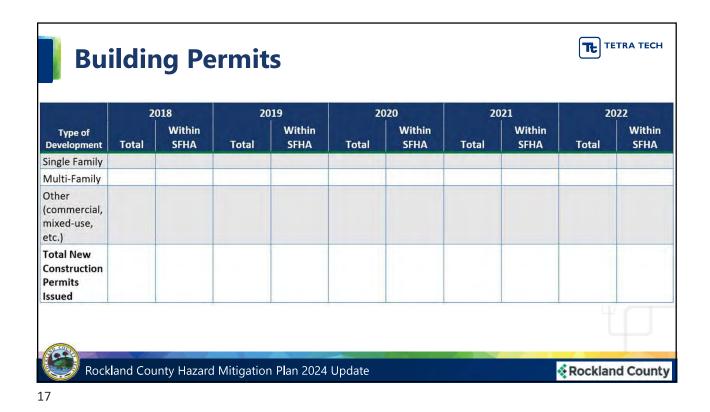
A well-defined planning process is <u>essential</u> to the success of Rockland County's HMP Update.

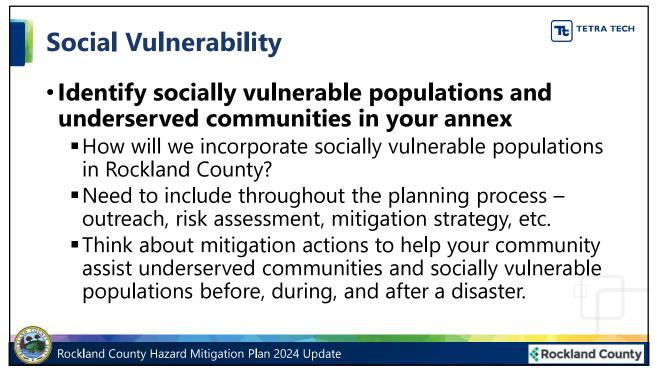


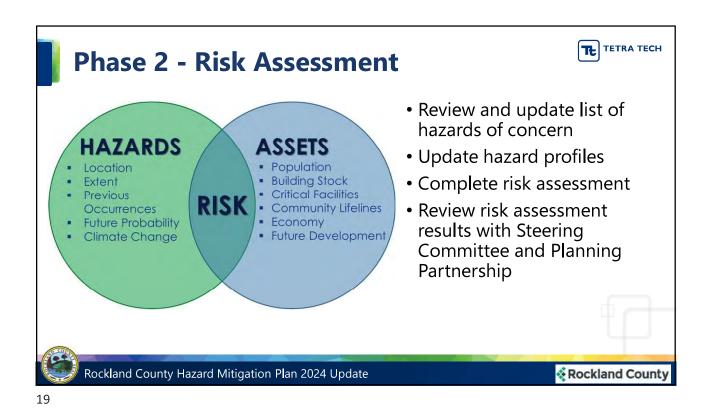


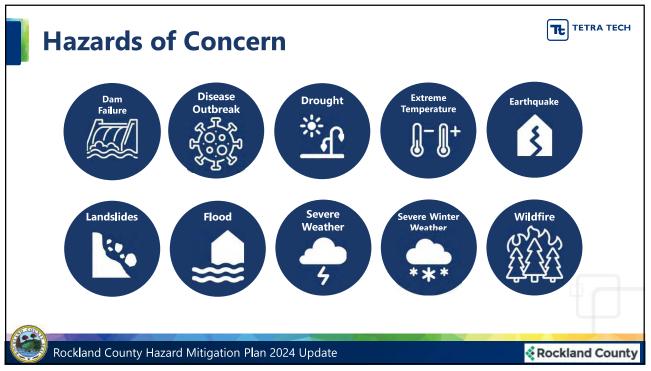


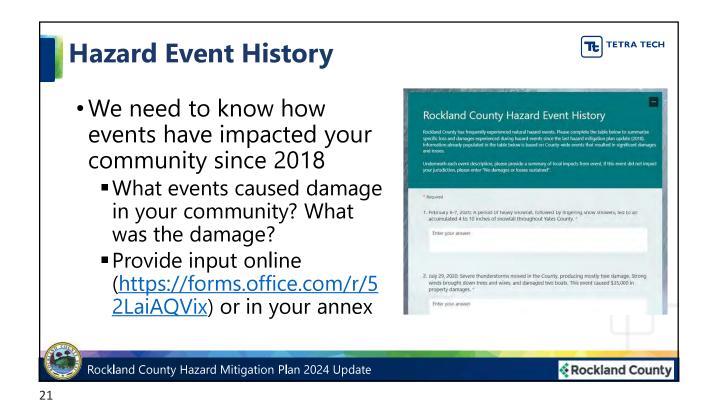
Rockland County NY - New Development Survey	Name of Development*
Please indicate recent (2018 to present) or anticipated/known new development (major building (open space to structure) or major infrastructure) in the next S years.	
Name*	Address/Block Lot*
Your Agency/Department/Municipality*	Date of Development*
	-Plasse select:
To <u>add</u> more than one new development project entry to this survey, select the (+) below and answer the required questions.	Type of Development*
To <u>delete</u> a new development project entry, select the number that represents the new development project you want to delete and click on the garbage can.	:Ploase salett-
New Development (1) -	Number of Units/Structures* If there are no units, please indicate not applicable.
₿ ① ⊕	

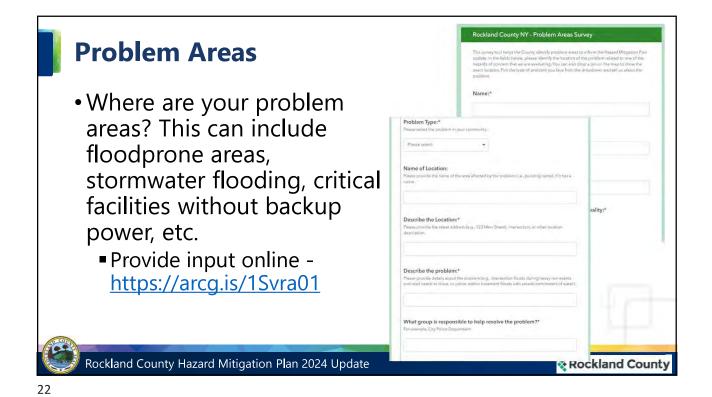


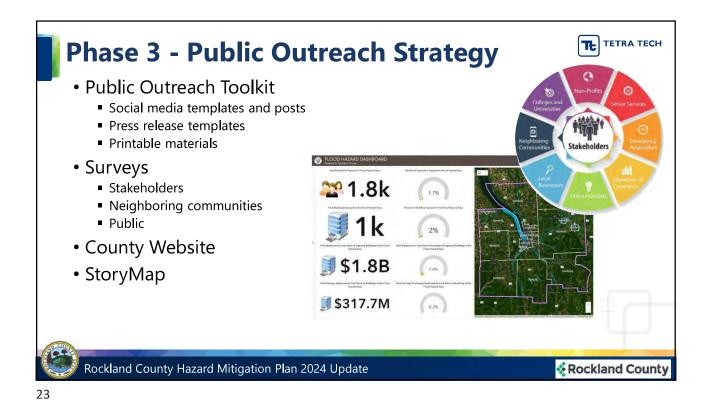


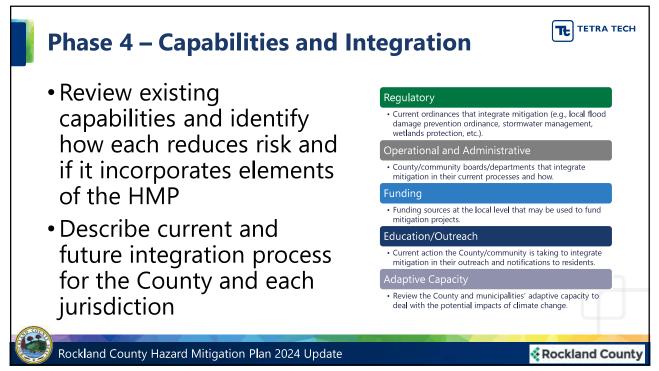


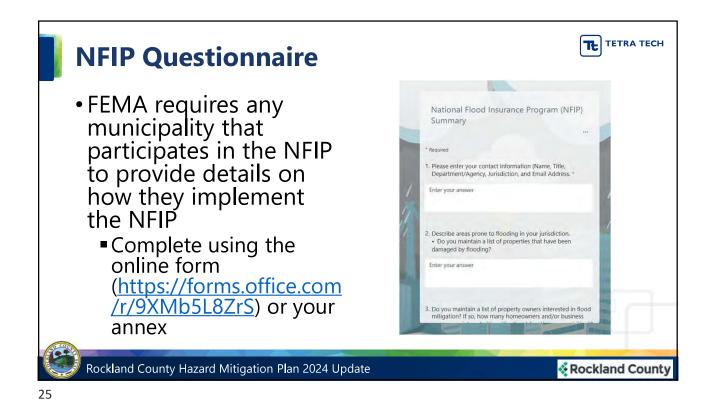






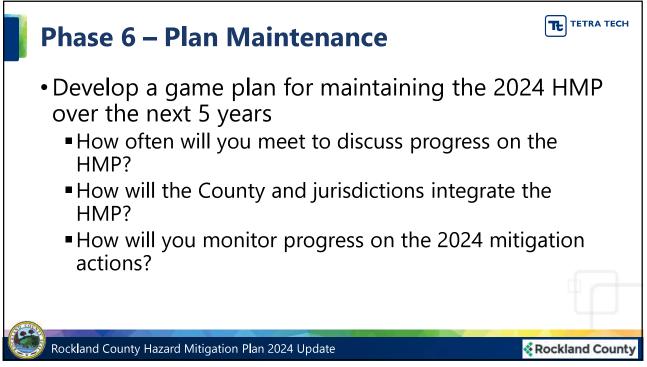






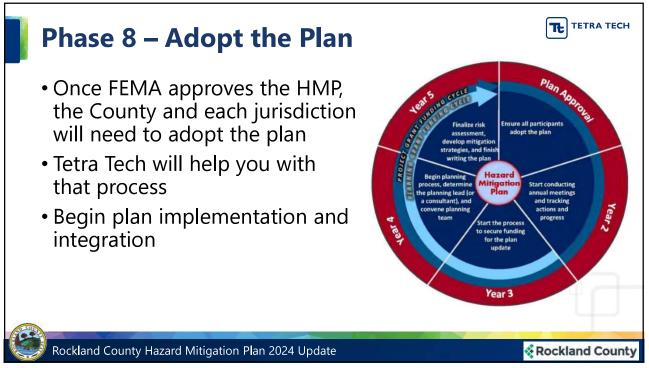


				gation	Strategies	
Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
Airmont- 1	Beaver Hollow Bank Erosion and Stabilization		Village Engineer	Bank stabilization due to erosion is needed at Beaver Hollow. Conduct a study to see which methods are the most feasible to stabilize the bank, implement the actions.	1. 2.	1. 2. 3.
Airmont- 2	Village Emergency Plan	All Hazards	Village Planner	The Village currently utilizes the Rockland County's Emergency Response Plan. Develop an individual Village Emergency Plan.	1. 2.	1. 2. 3.



Volume I	Appendices	Volume II
Table of Contents	Sample Adoption Resolution	Planning Team
Executive Summary	Participation Matrix	Jurisdictional Annexes (25)
ntroduction	Meeting Documentation	
Planning Process	Public and Stakeholder Outreach	
County Profile	Risk Assessment Information	
Risk Assessment	Mitigation Strategy Support Documentation	
Capability Assessment	Plan Maintenance Tools	
Vitigation Strategies	Linkage Procedures (if applicable)	
Plan Maintenance	Critical Facilities	
Acronyms and Abbreviations	High Hazard Potential Dam (HHPD)	
Glossary		
References		
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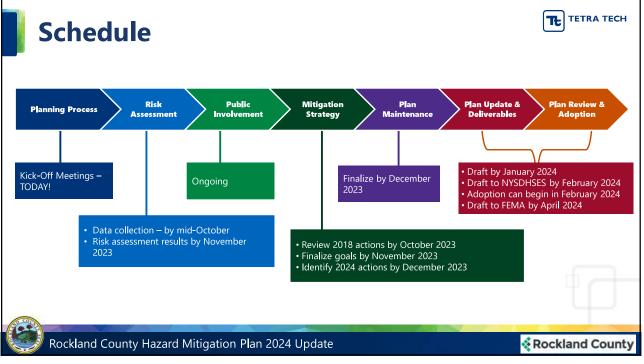




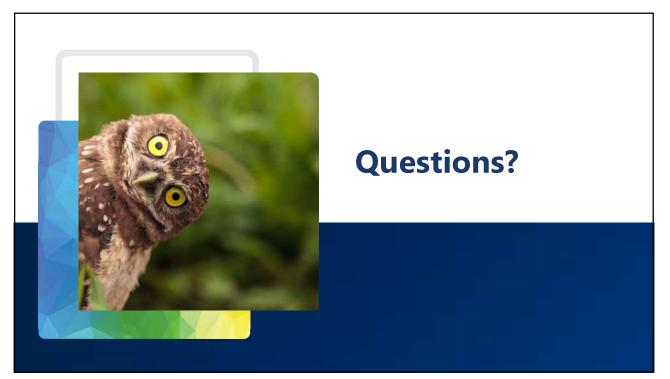


Project Schedule and Next Steps

Upcoming meetings and key milestones throughout the HMP update process



tem	Due Date
nnexes distributed to municipalities	By Wednesday, October 11th
Complete online forms – hazard event history and NFIP Juestionnaire	Wednesday, October 18th
Provide status on 2018 mitigation actions	Friday, October 27th
nput on new development and building permits	Friday, October 27th
dentify problem areas	Friday, October 27 th
Review and update jurisdictional annexes	Friday, October 27 th
lisk assessment/mitigation workshop (in-person)	Early December (date TBD)
Draft plan presentation (virtual)	Early January 2024
Adopt HMP	February-March 2024





Rockland County, NY – Hazard Mitigation Plan 2024 Update Planning Partnership Kick-Off Meeting | Minutes



Purpose o	of Meeting:	Planning Partnership Kick-Off		
Location o	of Meeting:	Rockland County Fire Training Center, P	omona, NY	
Date of M	leeting:	October 4, 2023 10:00AM – 11:00AM		
Attendees: • Rockland County ○ Chris Jenson, Fire and Emergency ○ Allie Manigo, Fire and Emergency ○ Alfred Carnevale, Highway Department ○ Jake Palant, Planning Department ○ Rich Schiafo, Planning Department ○ Michael DiMola, Environmental Resources • Airmont (V) ○ John Queenan, Village Engineer • Clarkstown (V) ○ Daniel Maloney, Police Department/Office of Emergency Management • Grand View-on-Hudson (V) ○ Julie Pagliaroli, Village Clerk/Treasurer • Haverstraw (T) ○ George Behn, Building Department • Haverstraw (V) ○ Patrick McNamee, Fire Administrator • Linda Donnelly, Principal Clerk • New Hempstead (V) • Allison Weinraub, Village Clerk/Treasurer • New Square (V) • David Breuer, Emergency Services • Mordechai Greenburg • Nyack (V) • Ann Marie Tisty, Assistant to Village Administrator • Orangetown (T) • Stephen Munno, Highway Department			 Piermont (V) Nate Mitchell, Trustee Ramapo (T) Joshua Hans, Program Coordinator Spring Valley (V) Adam McCary, Village Commissioner Stony Point (T) Catherine Murray, Finance Department Karl Javenes, Highway Department Upper Nyack (V) Georgia Grandstaff, Clerk Wesley Hills (V) Camille Guido-Downey, Village Clerk/Treas West Haverstraw (V) Anthony Sparta, Superintendent Hillburn (V), Nyack (V), Haverstraw (V) Eve Mancuso, Brooker Engineering Chestnut Ridge (V), Montebello (V), Pomor Haris Aljovic, Spence Engineering New York State Elizabeth O'Reilly, Division of Homeland See Emergency Services (NYS DHSES) Tetra Tech Heather Apgar, Tetra Tech Emma Kilkelly, Tetra Tech 	
Agenda Su	ove	e purpose of the meeting was to introduce the P prview of the hazard mitigation planning process late the hazards of concern.		-
ltem No.		Description		Action item(s):
1	Introductions • Each	person was asked to share their name and depa	rtment	-
2	and p • A Haz hazar hazar c	ation is a sustained action taken to reduce or elin roperty from a hazard event ard Mitigation Plan (HMP) provides an overview ds on communities and is a roadmap to reducing ds.	of the impacts of natural g the impact of these lated to the hazards ; majority indicted severe	_

Rockland County, NY – Hazard Mitigation Plan 2024 Update Planning Partnership Kick-Off Meeting | Minutes



3	Project Organization	-
	 To complete the HMP update, we will work with individuals, agencies, 	
	neighboring jurisdictions, businesses, and other partners	
	 The project is organized by the following – 	
	 Core Planning Team - made up of Rockland County Fire and Emergency 	
	and Tetra Tech. This is a small group that will meet frequently to ensure	
	the project stays on schedule and that we meet all State and FEMA	
	requirements.	
	 Steering Committee - responsible for providing guidance and leadership 	
	throughout the planning process. They will actively contribute, review	
	and provide feedback on plan sections, update the plans' goals and	
	objectives, finalize the list of hazards of concern, and identify mitigation	
	actions.	
	 Planning Partnership – represents the participating jurisdictions. They 	
	will attend meetings, provide information, identify mitigation actions,	
	and adopt the HMP.	
	 Stakeholders - must be engaged throughout the planning process. At a 	
	minimum, this group should include neighboring counties, local and	
	regional agencies involved in hazard mitigation activities, and agencies	
	that have the authority to regulate development, as well as businesses,	
	academia, and other private and nonprofit organizations. We will put	
	together a draft list of stakeholders and ask for your input.	
	 DHSES - provide the County guidance throughout the HMP update and 	
	will review/approve the plan before it is submitted to FEMA.	
4	Planning Process Overview	Tetra Tech
	 Following an eight-phase approach to update the HMP 	 Provide outreach
	1. Planning Process – ongoing throughout the update	materials
	2. Risk Assessment – identifies the risks of each hazard included in the plan	 Send social
	Dam Failure	vulnerability method
	 Disease Outbreak 	for review
	Drought	
	 Extreme Temperature 	Planning Partnership
	■ Flood	Provide input on the
	 Geologic Hazards 	hazards of concern
	 Severe Weather 	(<u>link</u>)
	 Severe Winter Weather Wildfire 	Assist with public
	Wildlife	outreach using
	 Public Involvement Strategy – ongoing throughout the plan update; we will use the County's website and StoryMap to help with outreach 	materials provided by
	 New FEMA guidance emphasizes outreach to socially vulnerable 	Tetra Tech
	communities and to include these populations in the Risk	Provide input on 2018
	Assessment	mitigation actions
	 4. Mitigation Strategy – review/finalize goals/objectives for 2024 HMP; 	
	review existing capabilities; review 2018 mitigation strategies and	
	provide status; identify new strategies for the 2024 update	
	5. Plan Maintenance – determine the maintenance schedule of the 2024	
	HMP	
	6. Plan Update and Deliverables – update all sections of the HMP; provide	
	to DHSES and FEMA for review and approval	
	7. Plan Adoption – the County and each participating municipality will	
	adopt the plan after the HMP is approved by FEMA	



	8. Project Management and Coordination – ongoing throughout the update	
5	 Project Schedule Steering Committee Kick-Off – September 26, 2023 Planning Partnership Kick-Off – October 4, 2023 Finalize goals, objectives, and hazards of concern – mid-October Risk Assessment Meeting – November 2023 Mitigation Strategy Meeting – December 2023 Plan maintenance – December 2023 Public Draft – January 2024 Draft to State for Review – February 2024 Plan Adoption – February 2024 Final Draft to FEMA – April 2024 	-
6	 Next Steps Steering Committee and Planning Partnership to provide input on problem areas and new development Problem areas - <u>https://arcg.is/1Svra01</u> New Development - <u>https://arcg.is/1f5qaX</u> Departments to share outreach materials and relevant data sources Please send screenshots/links to Tetra Tech so we can document in the plan 	 Tetra Tech N/A Planning Partnership Provide input on problem areas - <u>https://arcg.is/1Svra0</u> <u>1</u> Provide input on new development - <u>https://arcg.is/1f5qaX</u>

Meeting Date:	Wednesday, December 13, 2023
Meeting Location:	Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970
Meeting Topic:	Risk Assessment Review Meeting

Name	Title / Position	Agency/Department	Email	Present
Alex Obremski	Director	Community Development	obremska@co.rockland.ny.us	
Alfred Carnevale	Deputy Superintendent of Highways	Rockland County Highway Department	carnevaa@co.rockland.ny.us	
Allie Manigo	Data Entry	County Fire and Emergency Services	manigoa@co.rockland.ny.us	V
Brianna Rosamilia	District Manager	Rockland County Dept. Environmental Services/SWCD	rosamilb@co.rockland.ny.us	
Christopher Jensen	Coordinator	County Fire and Emergency Services	jensenc@co.rockland.ny.us	
Doug Schuetz	Acting Commissioner	Rockland County Department of Planning	schuetzd@co.rockland.ny.us	
Eric Medina	Director Emergency Preparedness	Rockland County Health	medinae@co.rockland.ny.us	
Jacki Scott	Director	DBL	scottj@co.rockland.ny.us	1
Jacob King	GIS Technician	Rockland County Department of Planning	kingj@co.rockland.ny.us	
Jake Palant	Associate Planner	Rockland County Department of Planning	palantj@co.rockland.ny.us	
Joseph DiCarlo	Director	Rockland County Probation	DiCarloJ@co.rockland.ny.us	
Martha Robles	Director	Rockland County Office for the Aging	roblesma@co.rockland.ny.us	
Mary Ellen DiStefano	Special Proj. Asst.	Rockland County Office for the Aging	distefam@co.rockland.ny.us	
Michael Dimola	Parks OPS		dimolam@co.rockland.ny.us	
Rich Schiafo	Deputy Commissioner	Rockland County Department of Planning	schiafr@co.rockland.ny.us	
Scott Lounsbury	GIS Coordinator	County GIS	lounsbus@co.rockland.ny.us	
Stephen Papas	CEO	United Way Rockland County	spapas@uwrc.org	
Vincent Altieriv	Executive Director	Rockland County Drainage Agency	altieriv@co.rockland.ny.us	
Andrew M. Connors		Highway Department	connorsa@co.rockland.ny.us	
Jennifer Zunino-Smith	Environmental Educator	Cornell University Cooperative Extension, Rockland County	Jmz75@cornell.edu	
Daniel Eudene	Executive Director	Catholic Charities Community Services of Rockland	daniel.eudene@ccrockland.org	



Meeting Date:Wednesday, December 13, 2023Meeting Location:Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Meeting Topic:Risk Assessment Review Meeting

Airmont (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Airmont (V)	Beth Ricker	Administrative Assistant	Lanc & Tully P.C.	bmr@lanctully.com	
Airmont (V)	John Queenan, P.E.	Village Engineer	Lanc & Tully P.C.	jq@lanctully.com	\times
Airmont (V)	Louis Zummo	Building Inspector		buildinginspector@airmont.org	
Airmont (V)	Nathan Bubel	Mayor		nbubel@airmont.org	
Airmont (V)	Sharon Halon	Village Clerk		villageclerk@airmont.org	
Airmont (V)		Evergreen Landscaping	Highway Department	david@evergreenlandscapingusa.com	

Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Chestnut Ridge (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Chestnut Ridge (V) Haris Aljovi	Haris Aljovic	Village Engineer		haljovic@spenceengineer.com	V
				-	

Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Clarkstown (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Clarkstown (T)	Colin Schmitt	Director of Finance		C.Schmitt@clarkstown.gov	
Clarkstown (T)	Dan Maloney	Seargent	Clarkstown Police Department	D.Maloney@clarkstownpd.org	
Clarkstown (T)	Erik Asheim	Building Inspector	Building	E.Asheim@clarkstown.gov	
Clarkstown (T)	George Hoehmann	Town Supervisor		G.Hoemann@clarkstown.gov	
Clarkstown (T)	James Fay	Captain	Clarkstown Police Department	J.Fay@clarkstownpd.org	
Clarkstown (T)	Joe Simoes	Principal Town Planner	Planning	J.Simoes@clarkstown.gov	
Clarkstown (T)	Justin Sweet	Town Clerk		J.Sweet@clarkstown.gov	
Clarkstown (T)	Mike Gianatasio	Director	DEFM	M.Gianatasio@clarkstown.org	
Clarkstown (T)	Christopher Wagner	Director	Engineering	c.wagner@clarkstown.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Grand View-On-Hudson (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Grand View-on-Hudson (V)	Bart Rodi	Village Engineer		bartrodi@hotmail.com	
Grand View-on-Hudson (V)	Joseph Knizeski	Building Inspector		building@gvoh-ny.gov	
Grand View-on-Hudson (V)	Julie Pagliaroli	Village Clerk/Treasurer		clerk@gvoh-ny.gov	
Grand View-on-Hudson (V)	Lawrence R. Lynn	Mayor		larrylynn49@hotmail.com	



Meeting Date:	Wednesday, December 13, 2023	
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Meeting Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970

Location:

Meeting Topic: Risk Assessment Review Meeting

Haverstraw (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Haverstraw (T)	George Behn	Building Inspector	Building Dept	gbehn@townofhaverstraw.org	V
Haverstraw (T)	George Wargo	Superintendent of Highways		gwardo@townofhaverstraw.org	
Haverstraw (T)	Glenn McCreedy	Consultant Engineer		gmccreedy@civildesignworks.com	
Haverstraw (T)	Howrad T. Phillips	Town Supervisor		supervisor@townofhaverstraw.org	
Haverstraw (T)	Jerry Knapp	Emergency Coordinator		jknapp23@aol.com	
Haverstraw (T)	Michael Gamboli	Director Finance		mgamboli@townofhaverstraw.org	
Haverstraw (T)	Michael Kauker	Consultant Planner		mdkauker@kaukerplan.com	
Haverstraw (T)	Raquel Ventura	Town Clerk		rventura@townofhaverstraw.org	

Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Haverstraw (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Haverstraw (V)	Eve Mancuso	Village Engineer	availe	emancuso@brookerengineering.com	\checkmark
Haverstraw (V)	Linda Donnelly	Principal Clerk	Department of Public Works	llivsey@westhaverstraw.org	
Haverstraw (V)	Michael Kohut			michael.kohut@yahoo.com	1
Haverstraw (V)	Patrick McNamee	Fire Administrator		pateng38@aol.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Hillburn (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Hillburn (V)	Eve Mancuso	Village Engineer	awarens	emancuso@brookerengineering.com	
Hillburn (V)	Joseph P. Tursi	Mayor		jptursi@hillburn.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Kaser (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Kaser (V)	Bill Press	Building and Fire Inspector		kaser@ksrnet.com	
Kaser (V)	Binyomin Mermelstein	Clerk/Treasurer		kaser@ksrnet.com	5
Kaser (V)	Eve Mancuso	Brooker Engineering	Em	emancuso@brookerengineering.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Montebello (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Montebello (V)	Haris Aljovic	Village Engineer		haljovic@spenceengineer.com	
Montebello (V)	Joan Will	Village Clerk/Treasurer		jwill@villageofmontebello.com	
Montebello (V)	Lance N. Millman	Mayor		mayor@villageofmontebello.com	
Montebello (V)	Marcos Padilla	Code Enforcement Officer		mpadilla@villageofmontebello.com	
Montebeilo (V)	Martin Spence	Village Engineer		mkspence@spenceengineer.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

New Hempstead (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
New Hempstead (V)	Allison Weinraub	Village Clerk/Treasurer		aweinraub@newhempstead.org	
New Hempstead (V)	Avrohom Sicker	Mayor		mayor@newhempstead.org	
New Hempstead (V)	Dan Dodd	Building Inspector		dbd@fuscoengineering.com	
New Hempstead (V)	Glenn McCreedy	Village Engineer		gmccreedy@civildesignworks.com	
New Hempstead (V)	John Lange	Village Planner		johnflange62@gmail.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

New Square (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
lew Square (V) Mordechai Greenburg			motty60@gmail.com		



Meeting Date:	Wednesday, December 13, 2023			
Meeting	Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970			
Location:				

Meeting Topic: Risk Assessment Review Meeting

Nyack (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Nyack (V)	Andrew Stewart			administrator@nyack-ny.gov	
Nyack (V)	Andy Stewart	Village Administrator		administrator@nyack-ny.gov	145
Nyack (V)	Ann Mari Tisty	Assistant to Village Administrator		annmarietlsty@nyack-ny.gov	
Nyack (V)	Bob Galvin, AICP			marketstat@aol.com; planning@nyack-ny.gov	
Nyack (V)	Don Hammond	Mayor		dhammon@nyack-ny.gov	
Nyack (V)	Eve Mancuso	Village Engineer	Brooker Engineering	emancuso@brookerengineering.com	Em
Nyack (V)	Jennifer Hetling	Clerk/Treasurer		clerktreasurer@nyack-ny.gov	
Nyack (V)	Jim Petriello	Fire Chief	Nyack Fire Department	petriello2@verizon.net	
Nyack (V)	Jon Abrams		Public Works	dpw@nyack-ny.gov	
Nyack (V)	Manny Carmona	Building Inspector		chiefbuildinginspector@nyack-ny.gov	
Nyack (V)	Robert Galvin	Building Department		marketstat@aol.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Orangetown (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Orangetown (T)	Eamon Reilly	Commissioner	Department of Environmental Management and Engineering	ereilly@orangetown.com	
Orangetown (T)	James Dean	Superintendent of Highways		jdean@orangetown.com	
Orangetown (T)	Jane Slavin	Director of OBZPAE		jslavin@orangetown.com	
Orangetown (T)	PO Michael Yannazzone, Jr.	Chairperson	Office of Emergency Management	royannazzonejr@orangetown.com	
Orangetown (T)	Rosanna Sfraga	Town Clerk		rsfraga@orangetown.com	
Orangetown (T)	Stephen Munno	Senior Administrative Assistant		smunno @orangetown.com	V
Orangetown (T)	Teresa M. Kenny	Town Supervisor		supervisor@orangetown.com	
Orangetown (T)	Eamon Reilly	Commissioner	Department of Environmental Management and Engineering	ereilly@orangetown.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Piermont (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Piermont (V)	Bart Rodi	Village Engineer		bartrodi@hotmail.com	
Piermont (V)	Bruce Tucker	Mayor		btucker@piermont-ny.gov	
Piermont (V)	Charles Schaub	Building Inspector		building@piermont-ny.gov	
Piermont (V)	Daniel Spitzer	Planning Board Chair		desmdpc@me.com	
Piermont (V)	Jennifer DeYorki Maher 🗸	Clerk/Treasurer		clerk@piermont-ny.gov	Yes
Piermont (V)	Larry Cabrera	Fire Chief		larry.cabrera13@outlook.com	
Piermont (V)	Michele Marzo	Deputy Clerk/Treasurer		deputyclerk@piermont-ny.gov	
Piermont (V)	Nate Mitchell	Trustee	Village Board	nmitchell@piermont-ny.gov	
Piermont (V)	Thomas Temple	Superintendent of Public Works		ttemple@piermont-ny.gov	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Pomona (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Pomona (V)	Haris Aljovic	Village Engineer		haljovic@spenceengineer.com	

Village Eng. Need a new POC. Semi-tome



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Ramapo (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Ramapo (T)	Captain Daniel Hyman	Captain	Ramapo Police	hymanD@ramapoPD.org	
Ramapo (T)	lan Smith	Chief Building Inspector		smithl@ramapo.org	
Ramapo (T)	Joshua Hans	Program Coordinator	Office of Emergency Preparedness and Safety	hansJ@ramapo.org	
Ramapo (T)	Michael Klatsky			klatskym@ramapo.org	1
Ramapo (T)	Michael Specht	Town Supervisor		SpechtM@ramapo.org	
Ramapo (T)	Mike Sadowski	Deputy Director	DPW	sadowskim@ramapo.org	
Ramapo (T)	Mona Montal	Chief of Staff		montalm@ramapo.org	
Ramapo (T)	Paul Gdanski	Engineer	DPW	gdanskip@ramapo.org	
Ramapo (T)	Sara Osherovitz	Town Clerks		osherovitzs@ramapo.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Sloatsburg (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Sloatsburg (V)	Eve Mancuso	Village Engineer	levon	evemancuso@gmail.com	V
Sloatsburg (V)	Mary Hahn			maryhahn@sloatsburgny.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Spring Valley (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Spring Valley (V)	Matthew Jones	Department of Community Development	NH - 사람 21:1	mjones@villagespringvalley.org	X
Spring Valley (V)	Alan Simon	Mayor		asimon@villagespringvalley.org	
Spring Valley (V)	Brian Wagner	Deputy Village Clerk		bwagner@villagespringvalley.org	
Spring Valley (V)	Diana Montgomery	Village Clerk		dmontgomery@villagespringvalley.or g	
Spring Valley (V)	Michael D. Kauker	Land Use		mdkauker@kaukerplan.com	
Spring Valley (V)	Nabil Ghanem	Engineer		nabil.ghanem@collierseng.com	
Spring Valley (V)	Raymond Canario	Building and Public Works		rcanario@villagespringvalley.org	×
Spring Valley (V)	Matthew Jones	Department of Community Development		mjones@villagespringvalley.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Stony Point (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Stony Point (T)	Catherine Murray	Director of Finance		cmurray@townofstonypoint.org	
Stony Point (T)	Jim Monaghan	Supervisor		Supervisor@townofstonypoint.org	1
Stony Point (T)	John Hager	Building Inspector		jhager@townofstonypoint.org	Vg
Stony Point (T)	John O'Rourke	Town Engineer		jor@lanctully.com	0
Stony Point (T)	Karl Javenes	Superintendent of Highways		kjavenes@townofstonypoint.org	
Stony Point (T)	Max Stach	Town Planner		maxstach@nelsonpope.com	
Stony Point (T)	Megan Carey	Town Clerk		mcarey@townofstonypoint.org	
Stony Point (T)	Mike Dempsey	Deputy Building Inspector		mdempsey@townofstonypoint.org	
Stony Point (T)	Paul Joachim	Deputy Supervisor		pjoachim@townofstonypoint.org	
Stony Point (T)	Stevie Scurti	Emergency Operations Coordinator		spchief601@msn.com	



Meeting Date:	Wednesday, December 13, 2023
Meeting	Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970
Location:	
Meeting Topic:	Mitigation Action Workshop

Suffern (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Suffern (V)	Charles W. Sawicki	Director of Public Works		csawicki@suffernny.gov	X
Suffern (V)	Danielle Curtin	DPW Clerk		dcurtin@suffernny.gov	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Upper Nyack (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Upper Nyack (V)	Dennis Letson			village.engineer@uppernyack-ny.us	
Upper Nyack (V)	Georgia Grandstaff	Village Clerk		village.clerk@uppernyack-ny.us	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Wesley Hills (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Presen ?
Wesley Hills (V)	Bill Press	Code Enforcement Officer		codeenforcement@wesleyhills.org	
Wesley Hills (V)	Camille Guido-Downey	Village Clerk/Treasurer		villageclerk@wesleyhills.org	X
Wesley Hills (V)	John C Layne	Building Inspector		buildinginspector@wesleyhills.org	1
Wesley Hills (V)	Jonathan T. Lockman, AICP	Principal Environmental Planner		jlockman@nelsonpope.com	
Wesley Hills (V)	Marshall Katz	Mayor		mayor@wesleyhills.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

West Haverstraw (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
West Haverstraw (V)	Anthony Sparta	DPW Superintendent		asparta@westhaverstraw.org	V
West Haverstraw (V)	Mayor Robert R. D'Amelio			Mayor@westhaverstraw.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Other

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
	Elizabe	th O'Riell	NYS DHSES		Y
STATE	Gary Tutt: 11	Regional Director	NYS OHSES DE M	Gary, Tuth: Ne OHSUS, NY. Go	1.4
	Michael Tarasoff		NYS DHSES		Y



Meeting Date:Wednesday, December 13, 2023Meeting Location:Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Meeting Topic:Mitigation Action Workshop

Rockland County

Name	Title / Position	Agency/Department	Email	Present?
Alex Obremski	Director	Community Development	obremska@co.rockland.ny.us	
Alfred Carnevale	Deputy Superintendent of Highways	Rockland County Highway Department	carnevaa@co.rockland.ny.us	V.
Allie Manigo	Data Entry	County Fire and Emergency Services	manigoa@co.rockland.ny.us	1
Brianna Rosamilia	District Manager	Rockland County Dept. Environmental Services/SWCD	rosamilb@co.rockland.ny.us	
Christopher Jensen	Coordinator	County Fire and Emergency Services	jensenc@co.rockland.ny.us	
Doug Schuetz	Acting Commissioner	Rockland County Department of Planning	schuetzd@co.rockland.ny.us	
Eric Medina	Director Emergency Preparedness	Rockland County Health	medinae@co.rockland.ny.us	
Jacki Scott	Director	DBL	scottj@co.rockland.ny.us	
Jacob King	GIS Technician	Rockland County Department of Planning	kingj@co.rockland.ny.us	
Jake Palant	Associate Planner	Rockland County Department of Planning	palantj@co.rockland.ny.us	
Joseph DiCarlo	Director	Rockland County Probation	DiCarloJ@co.rockland.ny.us	
Martha Robles	Director	Rockland County Office for the Aging	roblesma@co.rockland.ny.us	
Mary Ellen DiStefano	Special Proj. Asst.	Rockland County Office for the Aging	distefam@co.rockland.ny.us	
Michael Dimola	Parks OPS		dimolam@co.rockland.ny.us	
Rich Schiafo	Deputy Commissioner	Rockland County Department of Planning	schiafr@co.rockland.ny.us	1
Scott Lounsbury	GIS Coordinator	County GIS	lounsbus@co.rockland.ny.us	
Stephen Papas	CEO	United Way Rockland County	spapas@uwrc.org	
Vincent Altieriv	Executive Director	Rockland County Drainage Agency	altieriv@co.rockland.ny.us	
Andrew M. Connors		Highway Department	connorsa@co.rockland.ny.us	
Jennifer Zunino-Smith	Environmental Educator	Cornell University Cooperative Extension, Rockland County	Jmz75@cornell.edu	
Daniel Eudene	Executive Director	Catholic Charities Community Services of Rockland	daniel.eudene@ccrockland.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Airmont (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present?
Airmont (V)	Beth Ricker	Administrative Assistant	Lanc & Tully P.C.	bmr@lanctully.com	
Airmont (V)	John Queenan, P.E.	Village Engineer	Lanc & Tully P.C.	jq@lanctully.com	X
Airmont (V)	Louis Zummo	Building Inspector		buildinginspector@airmont.org	
Airmont (V)	Nathan Bubel	Mayor		nbubel@airmont.org	
Airmont (V)	Sharon Halon	Village Clerk		villageclerk@airmont.org	
Airmont (V)		Evergreen Landscaping	Highway Department	david@evergreenlandscapingusa.com	



Meeting Date:	Wednesday, December 13, 2023
Meeting	Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970
Location:	
Meeting Topic:	Risk Assessment Review Meeting

Chestnut Ridge (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Presen ?
Chestnut Ridge (V)	Haris Aljovic	Village Engineer		haljovic@spenceengineer.com	X



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Clarkstown (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Clarkstown (T)	Colin Schmitt	Director of Finance		C.Schmitt@clarkstown.gov	
Clarkstown (T)	Dan Maloney	Seargent	Clarkstown Police Department	D.Maloney@clarkstownpd.org	X
Clarkstown (T)	Erik Asheim	Building Inspector	Building	E.Asheim@clarkstown.gov	
Clarkstown (T)	George Hoehmann	Town Supervisor		G.Hoemann@clarkstown.gov	
Clarkstown (T)	James Fay	Captain	Clarkstown Police Department	J.Fay@clarkstownpd.org	
Clarkstown (T)	Joe Simoes	Principal Town Planner	Planning	J.Simoes@clarkstown.gov	
Clarkstown (T)	Justin Sweet	Town Clerk		J.Sweet@clarkstown.gov	
Clarkstown (T)	Mike Gianatasio	Director	DEFM	M.Gianatasio@clarkstown.org	
Clarkstown (T)	Christopher Wagner	Director	Engineering	c.wagner@clarkstown.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Grand View-On-Hudson (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Grand View-on-Hudson (V)	Bart Rodi	Village Engineer		bartrodi@hotmail.com	
Grand View-on-Hudson (V)	Joseph Knizeski	Building Inspector		building@gvoh-ny.gov	
Grand View-on-Hudson (V)	Julie Pagliaroli	Village Clerk/Treasurer		clerk@gvoh-ny.gov	
Grand View-on-Hudson (V)	Lawrence R. Lynn	Mayor		larrylynn49@hotmail.com	



Meeting Date:	Wednesday, December 13, 2023				
Meeting	Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970				
Location:					

Meeting Topic: Mitigation Action Workshop

Haverstraw (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Haverstraw (T)	George Behn	Building Inspector		gbehn@townofhaverstraw.org	
Haverstraw (T)	George Wargo	Superintendent of Highways		gwardo@townofhaverstraw.org	
Haverstraw (T)	Glenn McCreedy	Consultant Engineer		gmccreedy@civildesignworks.com	
Haverstraw (T)	Howrad T. Phillips	Town Supervisor		supervisor@townofhaverstraw.org	
Haverstraw (T)	Jerry Knapp	Emergency Coordinator		jknapp23@aol.com	
Haverstraw (T)	Michael Gamboli	Director Finance		mgamboli@townofhaverstraw.org	
Haverstraw (T)	Michael Kauker	Consultant Planner		mdkauker@kaukerplan.com	
Haverstraw (T)	Raquel Ventura	Town Clerk		rventura@townofhaverstraw.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Haverstraw (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Haverstraw (V)	Eve Mancuso	Village Engineer		emancuso@brookerengineering.com	1
Haverstraw (V)	Linda Donnelly	Principal Clerk	Department of Public Works	llivsey@westhaverstraw.org	>
Haverstraw (V)	Michael Kohut	Restle		michael.kohut@yahoo.com	1
Haverstraw (V)	Patrick McNamee	Fire Administrator		pateng38@aol.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Hillburn (V)

Jurisdiction	Name	Títle / Position	Agency/Department	Email	Present ?
Hillburn (V)	Eve Mancuso	Village Engineer		emancuso@brookerengineering.com	
Hillburn (V)	Joseph P. Tursi	Mayor		jptursi@hillburn.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Kaser (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Kaser (V)	Bill Press	Building and Fire Inspector		kaser@ksrnet.com	
Kaser (V)	Binyomin Mermelstein	Clerk/Treasurer		kaser@ksrnet.com	X
Kaser (V)	Eve Mancuso	Brooker Engineering		emancuso@brookerengineering.com	1



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Montebello (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Presen ?
Montebello (V)	Haris Aljovic	Village Engineer	网络拉斯 化浓热	haljovic@spenceengineer.com	X
Montebello (V)	Joan Will	Village Clerk/Treasurer		jwill@villageofmontebello.com	
Montebello (V)	Lance N. Millman	Mayor		mayor@villageofmontebello.com	
Montebello (V)	Marcos Padilla	Code Enforcement Officer		mpadilla@villageofmontebello.com	
Montebello (V)	Martin Spence	Village Engineer		mkspence@spenceengineer.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

New Hempstead (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
New Hempstead (V)	Allison Weinraub	Village Clerk/Treasurer		aweinraub@newhempstead.org	
New Hempstead (V)	Avrohom Sicker	Mayor	mayor@newhempstead.org		
New Hempstead (V)	Dan Dodd	Building Inspector	dbd@fuscoengineering.com		
New Hempstead (V)	Glenn McCreedy	Village Engineer	gmccreedy@civildesignworks.com		
New Hempstead (V)	John Lange	Village Planner	johnflange62@gmail.com		



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

New Square (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
New Square (V)	Mordechai Greenburg			motty60@gmail.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:

Meeting Topic: Mitigation Action Workshop

Nyack (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Nyack (V)	Andrew Stewart			administrator@nyack-ny.gov	
Nyack (V)	Andy Stewart	Village Administrator		administrator@nyack-ny.gov	
Nyack (V)	Ann Mari TIsty	Assistant to Village Administrator		annmarietlsty@nyack-ny.gov	
Nyack (V)	Bob Galvin, AICP			marketstat@aol.com; planning@nyack-ny.gov	
Nyack (V)	Don Hammond	Mayor		dhammon@nyack-ny.gov	
Nyack (V)	Eve Mancuso	Village Engineer	Brooker Engineering	emancuso@brookerengineering.com	\checkmark
Nyack (V)	Jennifer Hetling	Clerk/Treasurer		clerktreasurer@nyack-ny.gov	
Nyack (V)	Jim Petriello	Fire Chief	Nyack Fire Department	petriello2@verizon.net	
Nyack (V)	Jon Abrams		Public Works	dpw@nyack-ny.gov	
Nyack (V)	Manny Carmona	Building Inspector	chiefbuildinginspector@nyack-ny.gov		
Nyack (V)	Robert Galvin	Building Department		marketstat@aol.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Mitigation Action Workshop

Orangetown (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Orangetown (T)	Eamon Reilly	Commissioner	Department of Environmental Management and Engineering	ereilly@orangetown.com	
Orangetown (T)	James Dean	Superintendent of Highways		jdean@orangetown.com	
Orangetown (T)	Jane Slavin	Director of OBZPAE		jslavin@orangetown.com	
Orangetown (T)	PO Michael Yannazzone, Jr.	Chairperson	Office of Emergency Management	royannazzonejr@orangetown.com	
Orangetown (T)	Rosanna Sfraga	Town Clerk		rsfraga@orangetown.com	
Orangetown (T)	Stephen Munno	Senior Administrative Assistant		smunno @orangetown.com	V
Orangetown (T)	Teresa M. Kenny	Town Supervisor		supervisor@orangetown.com	
Orangetown (T)	Eamon Reilly	Commissioner	Department of Environmental Management and Engineering	ereilly@orangetown.com	



Meeting Date:	Wednesday, December 13, 2023
Meeting	Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970
Location:	
Meeting Topic:	Risk Assessment Review Meeting

Piermont (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Piermont (V)	Bart Rodi	Village Engineer		bartrodi@hotmail.com	
Piermont (V)	Bruce Tucker	Mayor		btucker@piermont-ny.gov	
Piermont (V)	Charles Schaub	Building Inspector		building@piermont-ny.gov	
Piermont (V)	Daniel Spitzer	Planning Board Chair		desmdpc@me.com	
Piermont (V)	Jennifer DeYorki Maher	Clerk/Treasurer		clerk@piermont-ny.gov	
Piermont (V)	Larry Cabrera	Fire Chief		larry.cabrera13@outlook.com	
Piermont (V)	Michele Marzo	Deputy Clerk/Treasurer		deputyclerk@piermont-ny.gov	
Piermont (V)	Nate Mitchell	Trustee	Village Board	nmitchell@piermont-ny.gov	
Piermont (V)	Thomas Temple	Superintendent of Public Works		ttemple@piermont-ny.gov	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Pomona (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Pomona (V)	Haris Aljovic	Village Engineer		haljovic@spenceengineer.com	

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Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Ramapo (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Ramapo (T)	Captain Daniel Hyman	Captain	Ramapo Police	hymanD@ramapoPD.org	
Ramapo (T)	lan Smith	Chief Building Inspector		smithl@ramapo.org	
Ramapo (T)	Joshua Hans	Program Coordinator	Office of Emergency Preparedness and Safety	hansJ@ramapo.org	1
Ramapo (T)	Michael Klatsky			klatskym@ramapo.org	
Ramapo (T)	Michael Specht	Town Supervisor		SpechtM@ramapo.org	
Ramapo (T)	Mike Sadowski	Deputy Director	DPW	sadowskim@ramapo.org	
Ramapo (T)	Mona Montal	Chief of Staff		montalm@ramapo.org	
Ramapo (T)	Paul Gdanski	Engineer	DPW	gdanskip@ramapo.org	
Ramapo (T)	Sara Osherovitz	Town Clerks		osherovitzs@ramapo.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Sloatsburg (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Sloatsburg (V)	Eve Mancuso	Village Engineer		evemancuso@gmail.com	×
Sloatsburg (V)	Mary Hahn			maryhahn@sloatsburgny.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Spring Valley (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Spring Valley (V)	Matthew Jones	Department of Community Development		mjones@villagespringvalley.org	X
Spring Valley (V)	Alan Simon	Mayor		asimon@villagespringvalley.org	
Spring Valley (V)	Brian Wagner	Deputy Village Clerk		bwagner@villagespringvalley.org	
Spring Valley (V)	Diana Montgomery	Village Clerk		dmontgomery@villagespringvalley.or g	
Spring Valley (V)	Michael D. Kauker	Land Use		mdkauker@kaukerplan.com	
Spring Valley (V)	Nabil Ghanem	Engineer		nabil.ghanem@collierseng.com	
Spring Valley (V)	Raymond Canario	Building and Public Works		rcanario@villagespringvalley.org	X
Spring Valley (V)	Matthew Jones	Department of Community Development		mjones@villagespringvalley.org	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Stony Point (T)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Stony Point (T)	Catherine Murray	Director of Finance		cmurray@townofstonypoint.org	
Stony Point (T)	Jim Monaghan	Supervisor		Supervisor@townofstonypoint.org	
Stony Point (T)	John Hager	Building Inspector		jhager@townofstonypoint.org	~
Stony Point (T)	John O'Rourke	Town Engineer		jor@lanctully.com	
Stony Point (T)	Karl Javenes	Superintendent of Highways		kjavenes@townofstonypoint.org	
Stony Point (T)	Max Stach	Town Planner		maxstach@nelsonpope.com	
Stony Point (T)	Megan Carey	Town Clerk		mcarey@townofstonypoint.org	
Stony Point (T)	Mike Dempsey	Deputy Building Inspector		mdempsey@townofstonypoint.org	
Stony Point (T)	Paul Joachim	Deputy Supervisor		pjoachim@townofstonypoint.org	
Stony Point (T)	Stevie Scurti	Emergency Operations Coordinator		spchief601@msn.com	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Suffern (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Suffern (V)	Charles W. Sawicki	Director of Public Works		csawicki@suffernny.gov	X
Suffern (V)	Danielle Curtin	DPW Clerk		dcurtin@suffernny.gov	

Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Upper Nyack (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
Upper Nyack (V)	Dennis Letson			village.engineer@uppernyack-ny.us	
Upper Nyack (V)	Georgia Grandstaff	Village Clerk		village.clerk@uppernyack-ny.us	



Meeting Date:Wednesday, December 13, 2023MeetingClover Stadium, 1 Phil Tisi Way, Pomona, NY 10970Location:Risk Assessment Review Meeting

Wesley Hills (V)

Jurisdiction	Name	Title / Position	Agency/Department	Email	Presen ?
Wesley Hills (V)	Bill Press	Code Enforcement Officer		codeenforcement@wesleyhills.org	
Wesley Hills (V)	Camille Guido-Downey	Village Clerk/Treasurer		villageclerk@wesleyhills.org	X
Wesley Hills (V)	John C Layne	Building Inspector		buildinginspector@wesleyhills.org	
Wesley Hills (V)	Jonathan T. Lockman, AICP	Principal Environmental Planner		jlockman@nelsonpope.com	
Wesley Hills (V)	Marshall Katz	Mayor		mayor@wesleyhills.org	



Meeting Date:	Wednesday, December 13, 2023
Meeting	Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970
Location:	
Meeting Topic:	Mitigation Action Workshop

West Haverstraw (V)

Jurisdiction	Name	Title / Position	Agen.v/Department	Email	Present ?
West Haverstraw (V)	Anthony Sparta	DPW Superintendent	a	asparta@westhaverstraw.org	0
West Haverstraw (V)	Mayor Robert R. D'Amelio			Mayor@westhaverstraw.org	



Municipality	Department	Phone Number	Email	
Airmont				
Chestnut Ridge		1		
Clarkstown	Police Dept			
Haverstraw (Town)				
Haverstraw (Village)			- ÷	
Grandview On Hudson				
Hillburn				
Kaser				
Montebello				
New Hempstead				
New Square				
Nyack				
Piermont				÷.
Ramapo				
Sloatsburg				
Spring Valley				
Spring Valley				
Stony Point				
Suffern				
Upper Nyack				
Wesley Hills				
West Haverstraw				
West Haverstraw				
Rockland County	Fire & Emergency	(845) 364-8824	manigoa@co.rockland ny us	
Rockland County	Fire & Emergency	(845) 364-8902	ensenc@co.rockland.ny.us	
	Airmont Chestnut Ridge Clarkstown Haverstraw (Town) Haverstraw (Village) Grandview On Hudson Hillburn Kaser Montebello New Hempstead New Square Nyack Piermont Ramapo Sloatsburg Spring Valley Spring Valley Stony Point Suffern Upper Nyack West Haverstraw West Haverstraw Rockland County	AirmontChestnut RidgeClarkstownPolice DeptHaverstraw (Town)Haverstraw (Village)Grandview On HudsonHillburnKaserMontebelloNew HempsteadNew SquareNyackPiermontRamapoSloatsburgSpring ValleyStony PointSuffernUpper NyackWest HaverstrawWest HaverstrawWest HaverstrawRockland CountyFire & Emergency	AirmontImage: Spring ValleySpring ValleyImage: Spring ValleySpring ValleyImage: Spring ValleyStart PaverstrawImage: Spring ValleyStart PaverstrawImag	AirmontImageImageChestnut RidgePolice DeptImageClarkstownPolice DeptImageHaverstraw (Town)ImageImageHaverstraw (Village)ImageImageGrandview On HudsonImageImageHillburnImageImageKaserImageImageMontebelloImageImageNew HempsteadImageImageNyackImageImagePiermontImageImageSloatsburgImageImageSpring ValleyImageImageStory PointImageImageSuffernImageImageUpper NyackImageImageWest HaverstrawImageImageWest HaverstrawImageImageRockland CountyFire & Emergency(845) 364-8824Image@co.rockland.ny.us

Meeting Date:	: Wednesday, December 13, 2023		
Meeting	Clover Stadium, 1 Phil Tisi Way, Pomona, NY 10970		
Location:			
Meeting Topic:	Mitigation Action Workshop		

Other

Jurisdiction	Name	Title / Position	Agency/Department	Email	Present ?
NYSDHSES	Elizabeth	O'RITEL			Y
STATE	Gary Tuthill	Regional Director	NYS DHSES OEM	Gory. Tuthi 11 0 DHSES. NY. 60V	Y
NYSDHSES	Michael Tarasoff				Y

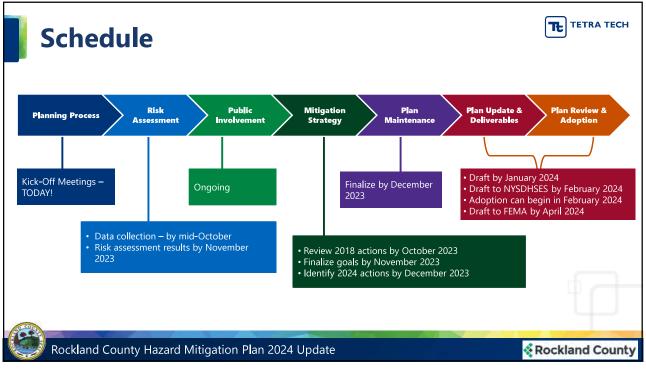




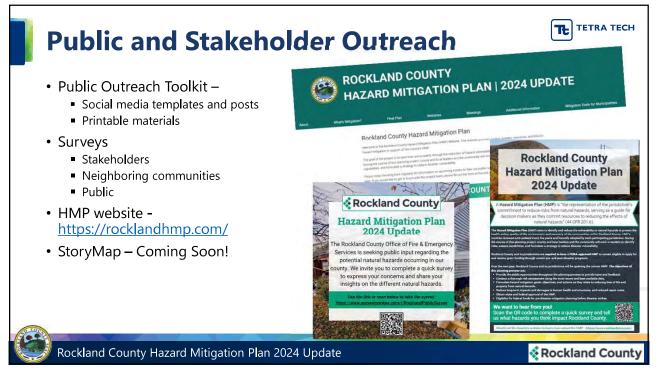






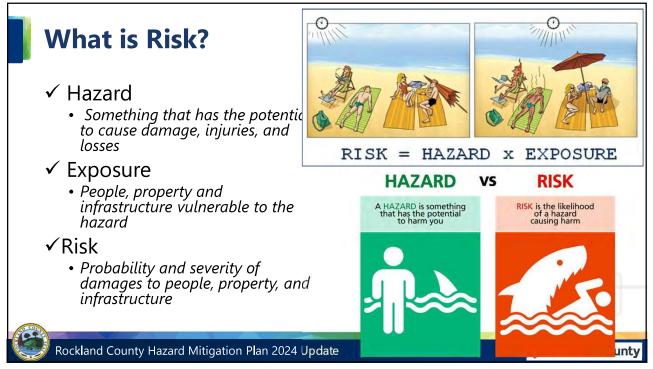


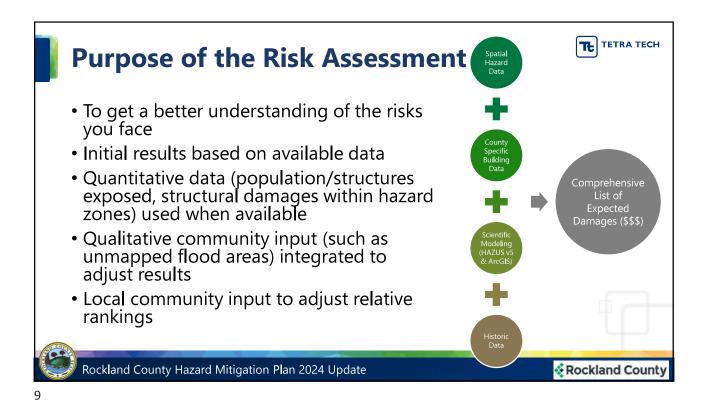
Mur	nicipa	al Participation S	Status		
Jurisdiction	Participating?	Status	Jurisdiction	Participating?	Status
Rockland County	Yes	Annex up-to-date	Orangetown (T)	Yes	Annex updated; need status of 2019 actions
Airmont (V)	Yes	Annex up-to-date	Piermont (V)	Yes	Annex up-to-date
Chestnut Ridge (V)	Yes	Annex up-to-date	Pomona (V)	Yes	Annex updated; need status of 2019 actions
Clarkstown (T)	Yes	Annex updated; need status of 2019 actions	Ramapo (T)	Yes	Annex up-to-date
Grand View-on- Hudson (V)	Yes	Annex updated; need status of 2019 actions	Sloatsburg (V)	Yes	Annex up-to-date
Haverstraw (T)	Yes	Missing NFIP input; need status of 2019 actions	Spring Valley (V)	Yes	Annex updated; need status of 2019 actions
Haverstraw (V)	Yes	Missing hazard event history and NFIP input; need status of 2019 actions	Stony Point (T)	Yes	Annex up-to-date
Hillburn (V)	Yes	Annex up-to-date	Suffern (V)	Yes	Missing hazard event history and NFIP input; need status of 2019 actions
Kaser (V)	Yes	Missing hazard event history and NFIP input; need status of 2019 actions	Upper Nyack (V)	Yes	Annex updated; need status of 2019 actions
Montebello (V)	Yes	Missing hazard event history and NFIP input; need status of 2019 actions	Wesley Hills (V)	Yes	Annex up-to-date
New Hempstead (V)	Yes	Annex updated; need status of 2019 actions	West Haverstraw (V)	Yes	Missing NFIP input; need status of 201 actions
New Square (V)	Yes	Missing hazard event history and NFIP input; need status of 2019 actions			<u> </u>
Nyack (V)	Yes	Annex updated; need status of 2019 actions			





Risk Assessment Overview and Results

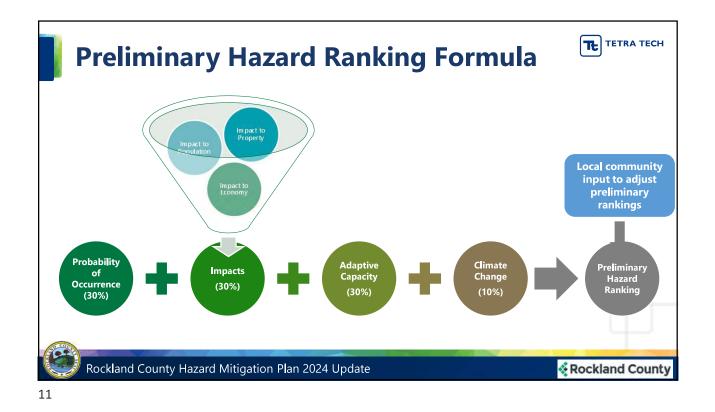


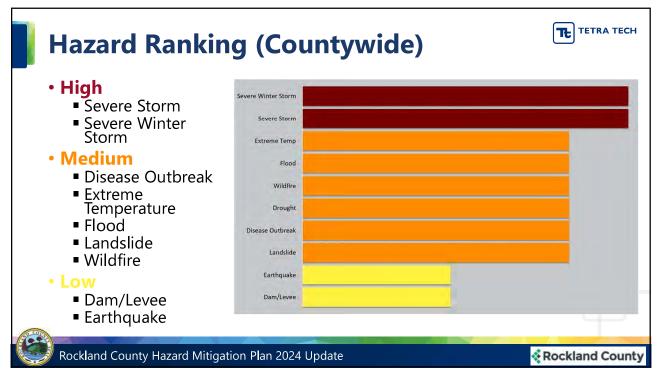


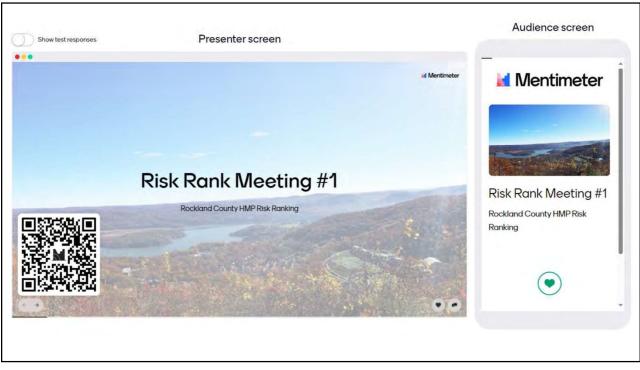
Hazard	Population	Property	Economy
Dam/Levee Failure	General and vulnerable populations in dam inundation areas	Buildings and lifelines in dam inundation areas	Replacement cost values of buildings in dam inundation areas
Disease Outbreak	Entire population exposed/vulnerable	Entire building stock exposed/vulnerable	Entire building stock exposed/vulnerable
Drought	Entire population exposed/vulnerable	Entire building stock exposed/vulnerable	Entire building stock exposed/vulnerable
Earthquake	General and vulnerable populations in Class D & E NEHRP Soils	Buildings and lifelines in Class D & E NEHRP Soils	Replacement cost values of buildings in Class D & E NEHRP Soils
Extreme Temperature	Entire population exposed/vulnerable	Entire building stock exposed/vulnerable	Entire building stock exposed/vulnerable
lood	General and vulnerable populations in 1% SFHA	Buildings and lifelines in 1% SFHA	Replacement cost values of buildings in 1% SFHA
andslide	General and vulnerable populations in high landslide incidence areas	Buildings and lifelines in high landslide incidence areas	Replacement cost values of buildings in high landslide incidence areas
Severe Storm	Entire population exposed/vulnerable	Entire building stock exposed/vulnerable	Entire building stock exposed/vulnerable
Severe Winter Storm	Entire population exposed/vulnerable	Entire building stock exposed/vulnerable	Entire building stock exposed/vulnerable
Wildfire	General and vulnerable populations in Wildland/Urban Interface Areas	Buildings and lifelines in Wildland/Urban Interface Areas	Replacement cost values of buildings in Wildland/Urban Interface Areas

Rockland County Hazard Mitigation Plan 2024 Update

Rockland County





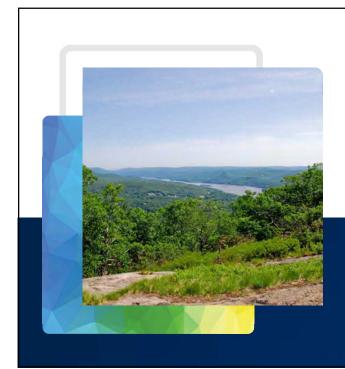


TETRA TECH **Municipal Hazard Rankings (Preliminary)** Hazard Ranking Severe Winter Weather Disease Outbreak Dam/Levee Drought Earthquake Extreme Temp Flood Landslide Severe Weather Wildfire Jurisdictions t, Village of hut Ridge, Village of arkstown, Town of Low averstraw, Village of Low Hillbu n, Village aser, Village Vontebello, Village o Villa Mer ew Square, Village o Lov Low Nyack, Village of Orangetown, Town of Lo Low Low Med ermont, Village o Lov omona, Village of amapo, Town of Low Sloatsburg, Village of Medi Low ring Valley, Villagony Point, Town of Suffern, Village of Low pper Nyack, Village of /esley Hills, Village of /est Haverstraw, Village Low Low Rockland County Hazard Mitigation Plan 2024 Update Rockland County

Keckland County	Hazard Ranking Review	Rockland County			Hazard Ranking Seview
				Agree with draft	
Hazard Ranking Review			Draft 2024	hazard ranking (Y/N)7 If No.	What changes in mitigation or other conditions have resulted in the change
Please send all electronic Word versions of this workshe		Hazard	Ranking Based on RA Results	Indicate preferred ranking.	conditions have resulted in the change In hazard ranking since 2019?
Email: emma.kilkelly@tetr	ALCONTON -	Drought Earthquake	Low		
Jurisdiction: Airmont (V)		Extreme Temperature Flood	Medium		
Name/Title of Individual Completing Worksheet:		Landslide	LOw		
the state of the s		Sevene Storts Sevene Warter Storm	High	1	
What is a Hazard Ranking?		Widline	Low		
historical data. 2. Impacts to people, property, and the economy based or GIG data and analysis of exposure. 3. The degree to which climate change will affect future occurrences based on best available data. 4. Adaptive Capacity, which is the ability your community	(interest interest in	 needs outside resour Strong adaptive cap 	ces. acity means the juris d minimum requirer	fiction does have nents: deployable	tespread; jurisdiction can recover but the capability to effectively respond, resources all of which decreases
respond to the hazard based on ordinances, mitigation		Hazard	Prelimit	ary What sho	uld we indicate for your community's aptive capacity for each hazard?
strategies and procedures, and readiness.	+ - Passer	Dives/Lever	Moder	te	privates proto y for each restarter
What is my Hazard Ranking?		Disease Outbrack Drought	Moder Moder		
The following table represent the calculated rankings for the hi concern for your community. Please review the calculated rank		Earthquake Extreme Temperature	Moder Moder		
indicate whether or not you want to adjust the ranking. If	you are	Flood Landside	Moder: Moder	ster.	
changing the ranking, please provide detail as to why you are of the ranking. REMEMBER, for every hazard of concern, you need		Sevene Storm	Moder	de l'internet	
one mitigation action		Several Winter Storm	Moder Moder		
Table 1. 2023 HMP Municipal Hazard Bankings Avenue based Dink 2024 (V/N) T Realing Based Dinkse Collected Dissue Collected Dissue Collected	nking I No, What changes in mitigation or other eferred conditions have resulted in the change				ROCKLAND COUNTY, NEW YORK

Review P	relimina	ry Rankings	
Hazard	Preliminary 2024 Ranking Based on RA Results	Agree with draft hazard ranking (Y/N)? If no, indicate the preferred ranking.	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2019?
Dam Failure	Low	Yes	
Disease Outbreak	Medium	Yes	
Drought	Low	Yes	
Earthquake	Low	Yes	
Extreme Temperature	Medium	Yes	
Flood	Low	No - high	Stormwater flooding causes significant damage; flood should be ranked as high
Landslide	High	No – Iow	No landslide history; developed parts of the city are relatively flat
Severe Weather	High	Yes	
Severe Winter Weather	Medium	No - high	The City experiences significant impacts of winter weather each year
Wildfire	Low	Yes	

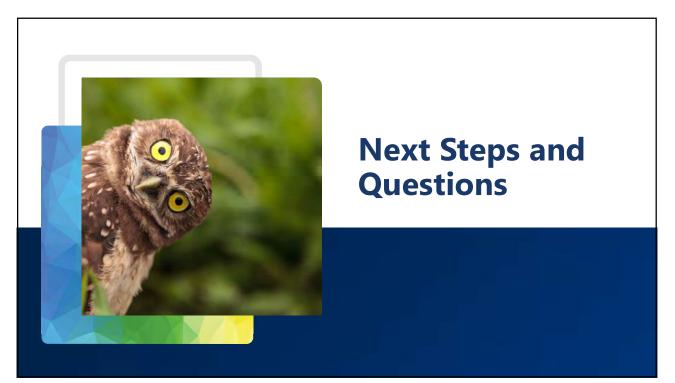
Hazard	Preliminary Adaptive Capacity (Capabilities)	What should we indicate for your community's adaptive capacity for each hazard?
Dam Failure	Moderate	
Disease Outbreak	Moderate	
Drought	Moderate	Weak – many residents rely on surface water and we do not have backup water sources in the event of a severe drought
arthquake	Moderate	
xtreme Temperature	Moderate	
lood	Moderate	
andslide	Moderate	
evere Storm	Moderate	
evere Winter Storm	Moderate	Strong – the City deals with winter weather each year and have the capabilities and staffing to respond appropriately
Vildfire	Moderate	

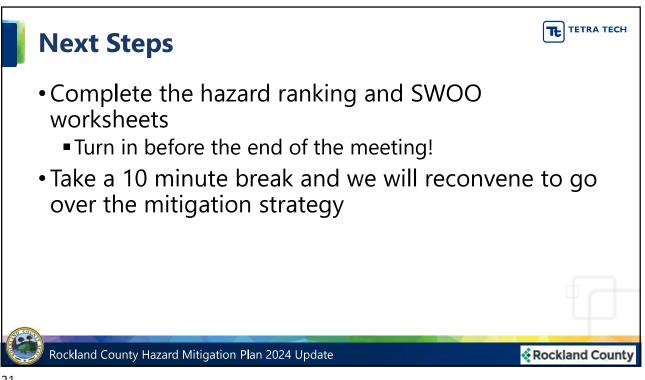


Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

Fill out your SWOO worksheet to provide more information on capabilities, risks, and potential new actions

TE TETRA TECH Strengths, Weaknesses, Obstacles, and Opportunities (SWOO) • The purpose of the SWOO is to identify mitigation strategies and capabilities that will meet the goals and objectives for the Rockland County HMP. Look at the following for each hazard of concern: **Rockland County HMP - SWOO Exercise** Strengths – what the County and communities do well; things upon which we can capitalize; Weaknesses – what can be done better; what can be strengthened; Obstacles – what stands in the way to implementation to prevent mitigation or response (for example regulatory, geographical, environmental, financial issues); and Contact Information Opportunities - actions or projects to mitigate issues or improve resilience. Rockland County Hazard Mitigation Plan 2024 Update Rockland County



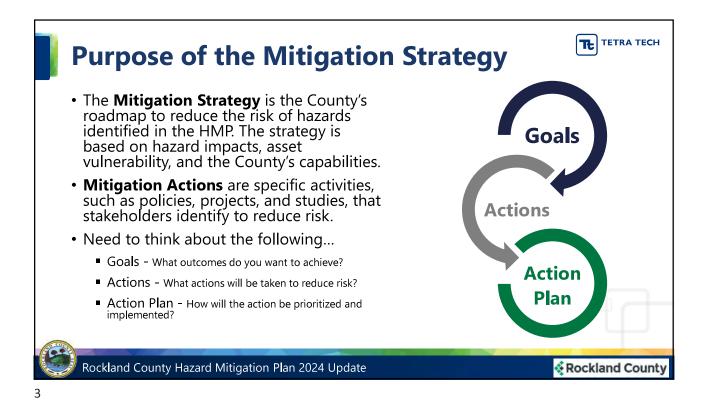




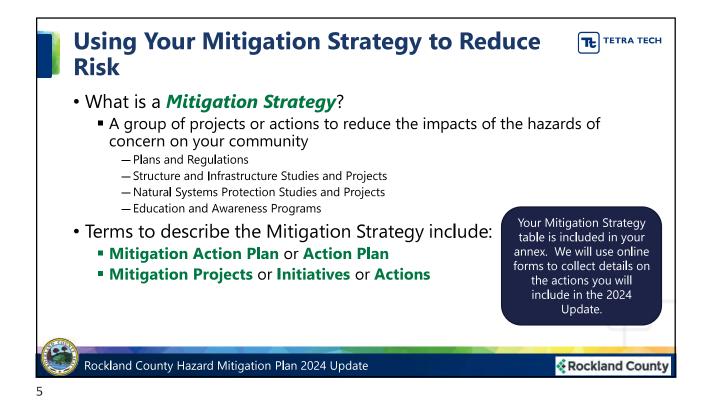


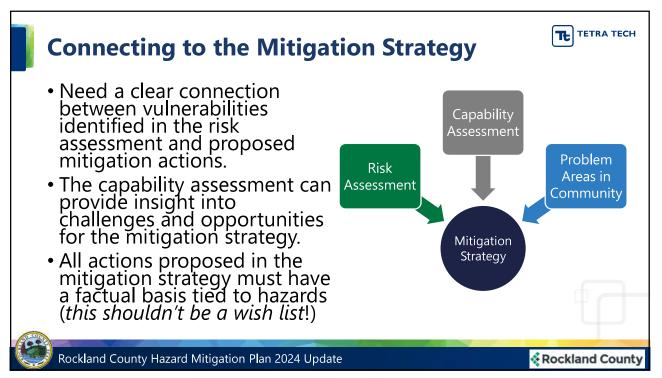


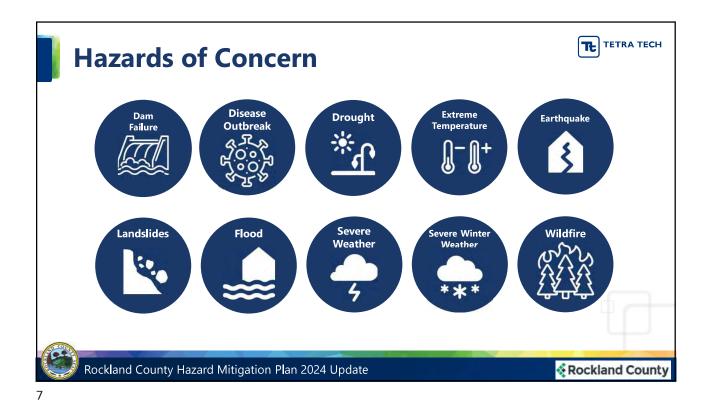


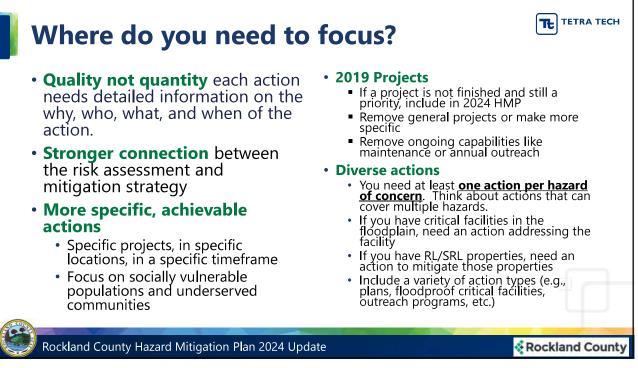


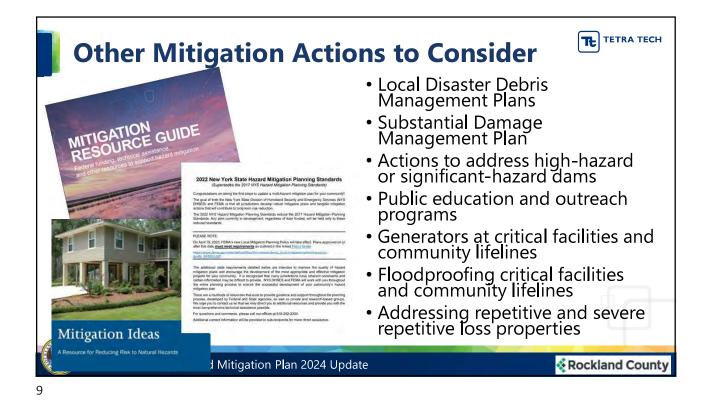


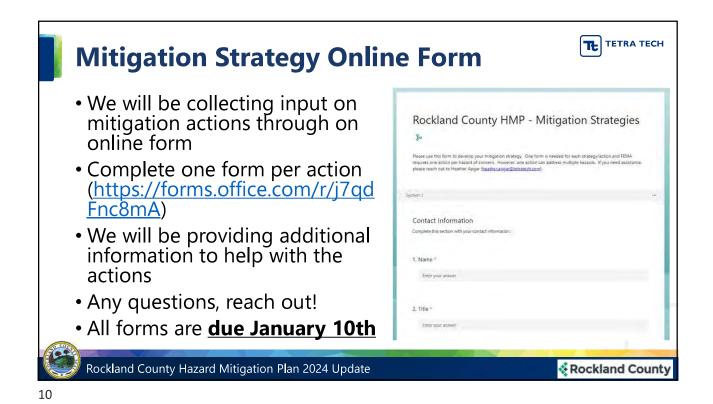


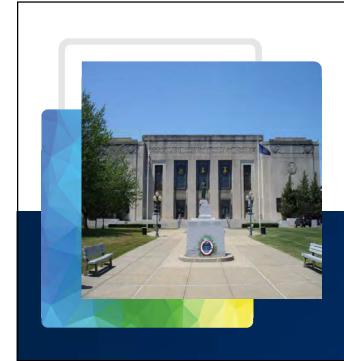








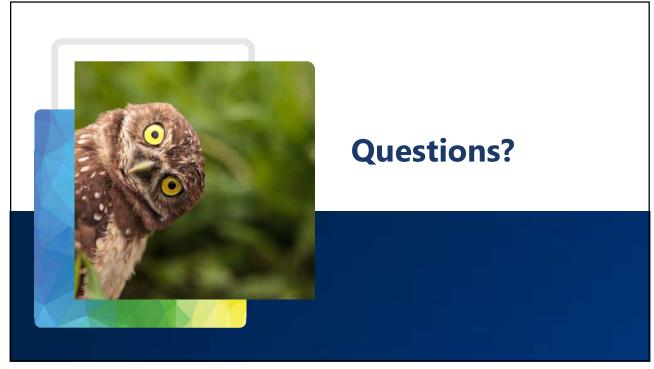




Project Schedule and Next Steps

Upcoming meetings and key milestones throughout the HMP update process

tem	Due Date
Risk assessment/mitigation workshop (in-person)	TODAY!
Hazard ranking input	Wednesday, January 3rd
Aitigation actions	Wednesday, January 10th
-inalize annexes	Friday, January 26th
Draft plan presentation (virtual)	Late January/Early February
Adopt HMP	February-March 2024





APPENDIX D. PUBLIC AND STAKEHOLDER OUTREACH

This appendix provides documentation of public and stakeholder outreach. Stakeholder involvement in this planning process was broad and productive as discussed and further documented in Section 2 (Planning Process). Public and stakeholder input has been incorporated throughout this HMP as appropriate, as identified in Section 2 and the References section, as well as within specific mitigation initiatives identified within the jurisdictional annexes (Section 9). Respondent feedback filtered by jurisdiction is included in each jurisdictional annex as available to provide an indication of community resident concerns related to natural hazards.

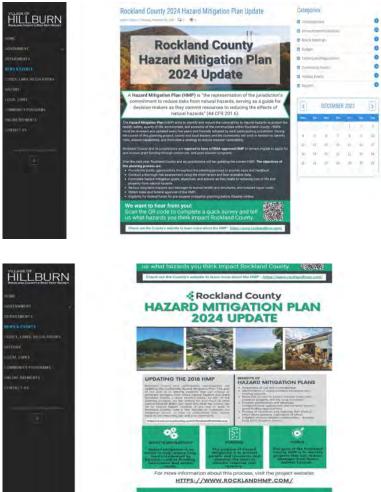
D.1 WEBSITE AND SOCIAL MEDIA POST

The following provides screenshots of websites, news articles, and social media posts.

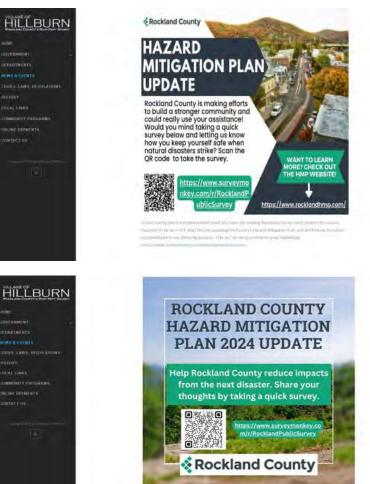
Date of Post	Jurisdiction	Format		
November 30, 2023	Village of Hillburn	 The following social media posts (7) were published on the Village of Hillburn, News & Events webpage, encouraging the public to take the survey for the County Hazard Mitigation Plan. Links and graphics were utilized to give more information about the HMP and where to find the draft on the County website. There is one (1) view and zero (0) comments, as of 12/1/2023. 		
December 1, 2023	Village of Wesley Hills	 The following social media post was published on the Village of Wesley Hills, News webpage as well as sent out in an email to the Village emailing list. The post encourages the public to take the survey for the County Hazard Mitigation Plan. Links and graphics were utilized to give more information about the HMP and where to find the draft on the County website. 		
December 2, 2023	Rockland County division of Environmental Resources	 The following social media post was published on the Rockland County Division of Environmental Resources Facebook page. The post encourages the public to take the survey for the County Hazard Mitigation Plan. Links and graphics were utilized to give more information about the HMP and where to find the draft on the County website. There is two (2) shares, as of 12/4/2023. 		
December 2, 2023	Rockland County Government	 The following social media post was re-posted on the Rockland County Government Facebook page. The post encourages the public to take the survey for the County Hazard Mitigation Plan. Links and graphics were utilized to give more information about the HMP and where to find the draft on the County website. There is two (2) likes, as of 12/4/2023. 		
December 3, 2023	Rockland County Fire and Emergency Services	 The following social media post was posted on the Rockland County Fire and Emergency Services Facebook page. The post encourages the public to take the survey for the County Hazard Mitigation Plan. Links and graphics were utilized to give more information about the HMP and where to find the draft on the County website. There is six (6) likes, as of 12/4/2023. 		
December 5, 2023	Town of Stony Point	 The following social media post was posted on the Town of Stony Point Facebook page. The post encourages the public to take the survey for the County Hazard Mitigation Plan. Links and graphics were utilized to give more information about the HMP and where to find the draft on the County website. Flyers were also posted at the Town Hall. There is one (1) like and three (3) shares, as of 12/21/2023. 		

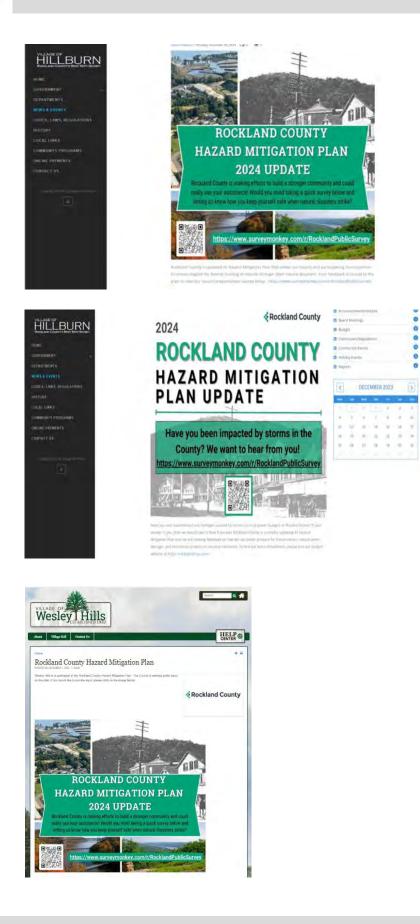
Table D-1. Website and Social Media Posts

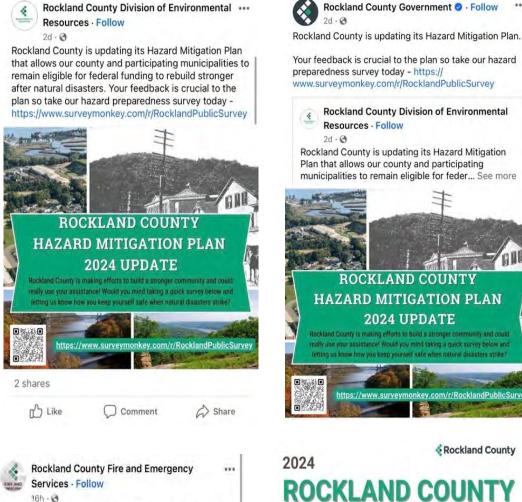
Date of Post	Jurisdiction	Format
December 6, 2023	Rockland County News	 The Rockland County News posted an article on the Rockland County Hazard Mitigation Plan Update. The article encourages the public to participate in the HMP update and provides a link to the County HMP webpage.
December 7, 2023	Village of West Haverstraw – Village Hall	 The following posters were available at the Village of West Haverstraw's Village Hall. The posters encouraged the public to take the survey for the County Hazard Mitigation Plan. Graphics were utilized to give more information about the HMP and where to find the draft on the County website.
December 12, 2023	Village of West Haverstraw	 The following were published on the Village of West Haverstraw's Rockland County HMP webpage. The flyers encourage the public to take the survey for the County Hazard Mitigation Plan. Graphics were utilized to give more information about the HMP and where to find the draft on the County website. They included QR codes to the surveys to be easily accessible with mobile devices.











Have you ever experienced any damages caused by storms such as power outages or flooded homes? If your answer is yes, then we would love to hear from you! Rockland County is currently updating its Hazard Mitigation Plan and we are seeking feedback on how we can better prepare for future events, reduce storm damage, and implement projects to increase resilience. To find out more information, please visit our project website at

https://rocklandhmp.com



n/r/RocklandPu

Rockland County

Survey



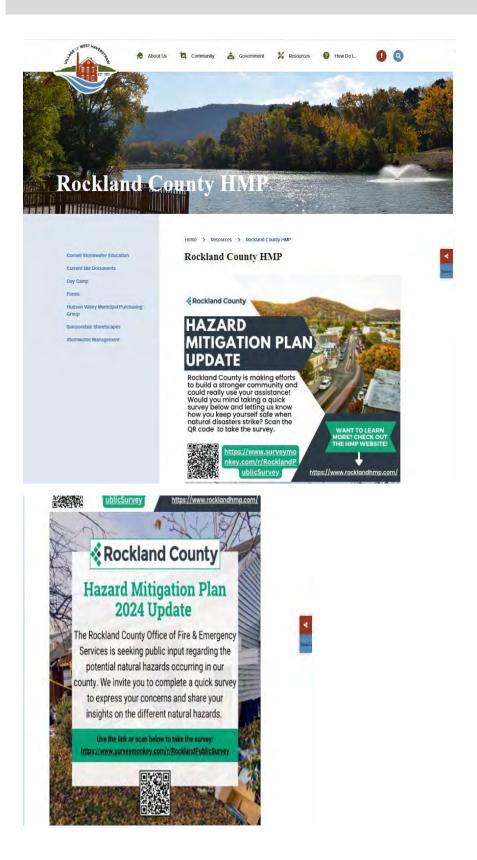
TETRA TECH

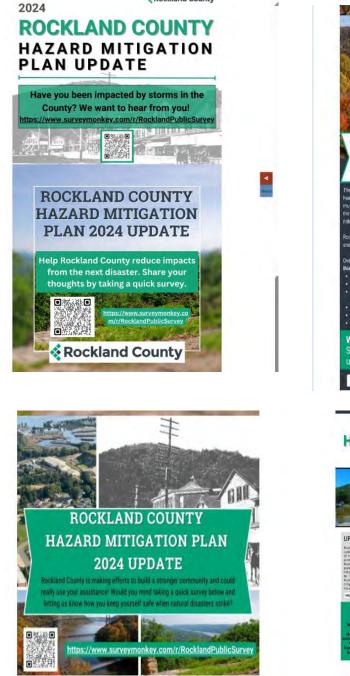












ROCKIANO COUNCY



Provide the set of t

For more information about this process, visit the project website <u>HTTPS://WWW.ROCKLANDHMP.COM/</u>

D.2 STAKEHOLDER SURVEYS

This section contains information and results gathered from the Rockland County HMP Stakeholder Survey. Unlike steering committee or planning partnership members, stakeholders may not be involved in all stages of the planning process, but they may have information or input to provide. In order to gather that information, the surveys were sent to the following stakeholders that provide various services to the Planning Area (emergency services, academic/research, public works, utility providers, business/commerce, hospitals/medical services, and transportation). Results of the surveys are provided below, with personal information redacted.

D.2.1 Stakeholder Survey Results

The stakeholder survey was designed to help identify general needs for hazard mitigation and resiliency within Rockland County from its perspective, as well as to identify specific projects that may be included in the mitigation plan. It was distributed to identified stakeholders, including the various county and municipal departments and agencies in the county. As of March 8, 2024, 37 stakeholders completed the survey, representing the following sectors: academic/research, emergency services, health and human services, and public works.

D.2.2 Neighbor Survey Results

The neighbor survey was sent to the surrounding municipalities of the Rockland County due to their proximity to and because effects of hazard events that impact the Planning Area would be similar to that of their neighbors. As of March 8, 2024, 4 responses were received.

D.3 PUBLIC SURVEY RESULTS

This section contains information and results gathered from the Rockland County Public Survey. The main objective of this survey was to gather information from citizens regarding their level of knowledge regarding hazard vulnerability and knowledge of hazard mitigation information for their local communities. 236 respondents completed this survey over a period of four months during the planning process. The survey was available on Rockland County's HMP website (https://rocklandhmp.com/) and participants posted a link to the survey through their social media accounts. Full survey responses are provided at the end of the appendix.

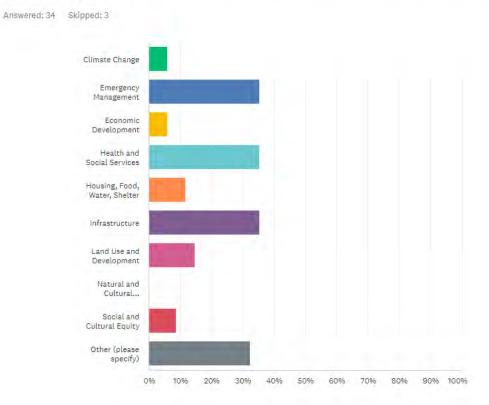
D.3.1 Public Survey Results

Reponses were collected and provided back to plan participants for consideration in the mitigation action development (236 responses in total).

ontact Information					
ontact miormation					
swered: 36 Skipped: 1					
ANSWER CHOICES	•	RESPONSES		•	
Name	Responses	100.00%		36	
Department/Agency	Responses	94.44%		34	
Primary Responsibility	Responses	91.67%		33	
Phone Number	Responses	97.22%		35	
Email Address	Responses	100.00%		36	
2			Custor	nize Save as	

Figure D-2. Screenshot of Stakeholder Survey Response

Which of the following sectors and areas of expertise do you represent? Mark all that apply.



Save as •

Customize

S

70% 80% 90% 100%

Q3

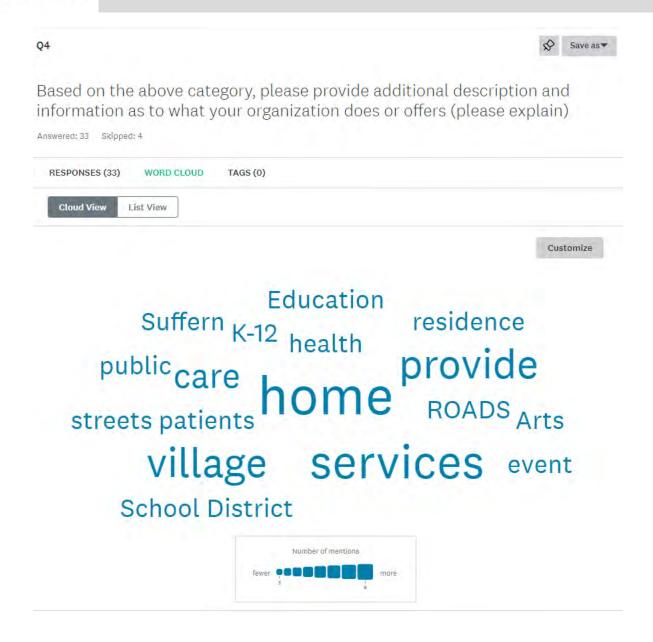


10% 20% 30% 40% 50% 60%

Public Works

Utility Provider

0%

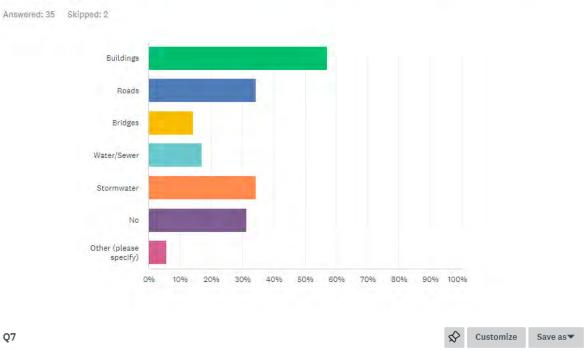


QS	i,Ç ² Customize Save as •
You may choose m	location of your facility(ies) and/ or primary service area. iore than one if your service area covers multiple Rockland County (entire area)" if your service area is
Answered: 36 Skipped: 1.	
Teckland	
County (anti	
Airmont (V)	
Chastrut Ridge	
Darketeilin (T)	Construction of the Instrument
Srant Vieu-ch-Hude	
Mayaratraly (T)	
Mayerstraw (V)	
Hitburn (V)	
Saser (V)	<u>.</u>
Nortaballo (V)	H
New Hempstead (V2	1
New Square (V)	1
Nydex (V)	
Orangetown (T)	
Parmers (/)	
Femera (V)	
famapo (T)	
	<u> </u>
Slaatsburg (V)	-
South Nyask [V]	
Boring Valley (V)	H
Stony Point (7)	
Suffere (1)	
Upper Nyasis (V)	
Waster Hills	
Cast	
Häverstraur (V) Other (places	-
(poace)	ON 10% 20% 50% 40% 20% 20% 70% 30% 20% 10%

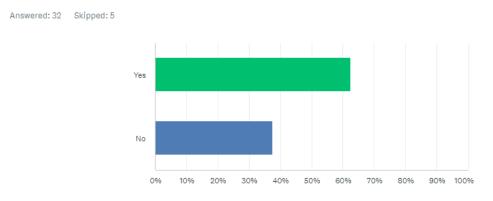
Q6

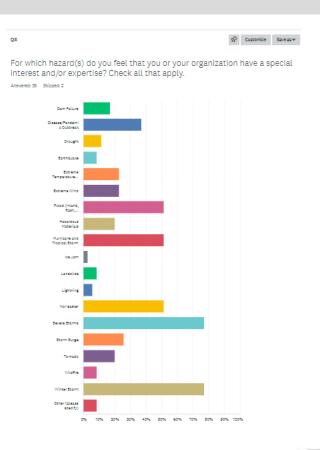
Save as ♥

Does your organization maintain or manage any of the following within your designated service area? If not, answer "No" at the bottom, otherwise check all that apply.

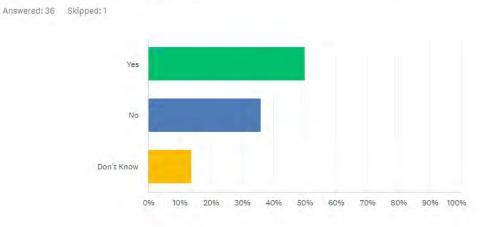


Does your organization work with or help support socially vulnerable populations that may be at higher risk for hazard impacts? Socially vulnerable populations may be considered "socially vulnerable" because of a variety of factors like socioeconomic status, household composition, minority status, limited proficiency to read or speak English, housing type, and transportation.





Looking back at previous hazard events, have buildings/facilities/structures you have worked in and/ or are responsible for been impacted by a hazard (ex. damage/closures/etc.)?



Q10	Save as •
If you answered "Yes" to the above question, please desc caused or is causing (if recurring) damage and loss of se quantifiable data is available, please provide that as wel damaged structures, monetary loss, etc.) (please explain Answered: 20 Skipped: 17	rvice/ property. If l (number of
RESPONSES (20) WORD CLOUD TAGS (0)	
Cloud View List View	
	Customize
Sandy caused Loss powe	er
events surge prevent	ted
Village Flooding	MPACTS
Storm damag	ge

Q11				Save as
Looking at where your fac what areas do you believ these hazards? (please ex Answered: 27 Skipped: 10	e to be the m			
RESPONSES (27) WORD CLOUD Cloud View List View	TAGS (0)			
				Customize
hom	es Wa	ater	lines	

hazards power areas

flooding patients



Save as *

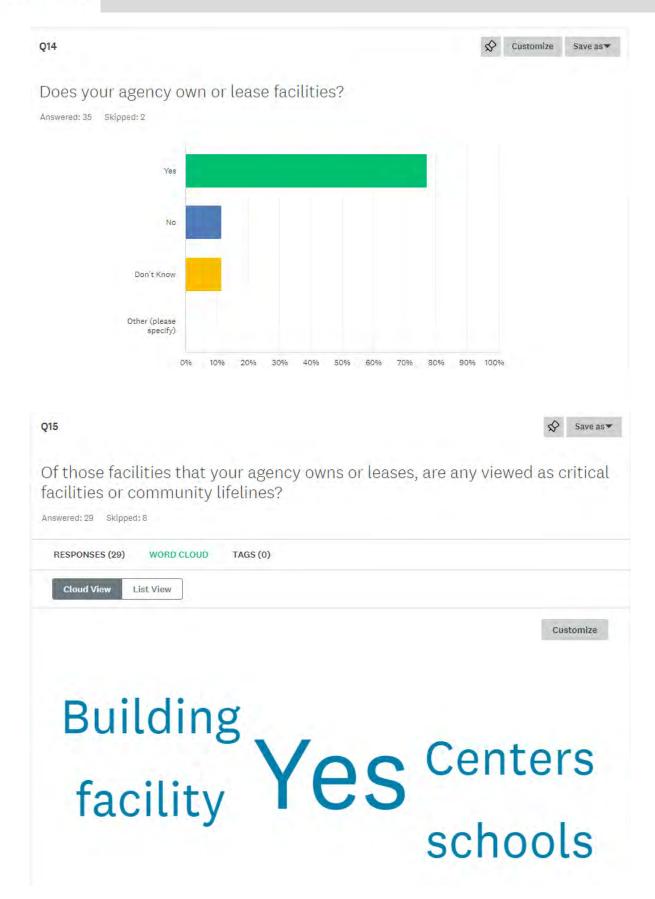
Q12										Ŷ	Customize	Save as 💌
What are your age Answered: 32 Skipped: 5	ncy's	prima	ry co	ncei	rns r	egar	ding	g haz	ard	s?		
Vulnerability of specific												
Response capabilities												
Likelihood of specific haz												
Other (please specify)												
	0% 10	% 20%	30%	40%	50%	60%	70%	80%	90%	100%		

What challenges or barriers to reducing vulnerability in Rockland County do you see?

Answered: 25 Skipped: 12 RESPONSES (25) WORD CLOUD TAGS (0)	
Cloud View List View	
	Customize
	needed
patients power le	evels
agency storms	reservoir

lake events floods





Save as -

Customize

S

Q16

Are your facilities susceptible to impacts from hazards, such as your fire department being in a flood prone area?

inswered; 34	Skipped: 3												
	Ye				ľ								
	N	•											
	Don't Knov	v											
		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
217													\$ Save as

What support does your organization need from Rockland County to help reduce vulnerabilities to your facilities?

Answered: 22 Skipped: 15	
RESPONSES (22) WORD CLOUD TAGS (0)	
Cloud View List View	
	Customize

communication flooding assistance Road event patients transportation Emergency preparedness

🔗 Customize Save as 🕶

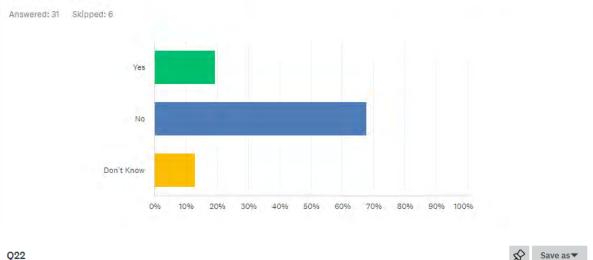
Is your organization covered by any of the following plans? Check all that apply

Answered: 32 Skipped: 5	
Continuity of Operations Plan	
Continuity of Government Plan	
Emergency Operations Plan	
Business Continuity Plan	
None	
Don't Know	
Other (please specify)	
0% 10% 20% 30% 40% 50% 60% 70% 80% 90	96 100%
Q19	Save as -
Answered: 22 Skipped: 15 RESPONSES (22) WORD CLOUD TAGS (0)	
Cloud View List View	
	Customize
hospital staff Facilities	S
generator Emergency	
0,	
plans patients	

Q20		Save as▼
climate, new or existing related to hazard mitiga	as your agency developed that rela facilities, vulnerable populations, c tion?	
Answered: 22 Skipped: 15 RESPONSES (22) WORD CLOUD	TAGS (0)	
Cloud View List View		
		Customize
	plan ^{emerge}	ency
	plan ^{emerge} develo	ped
	Emergency prep	

Customize Save as 🕶 S

Is your agency currently involved in conducting any studies or developing any programs which would further support Rockland County's hazard mitigation program? Studies can include hazard-specific information, data gathering which supports risk assessments, including economic data, or statistical data of other types.



Q22

Does your agency currently have any mitigation projects or activities underway? If so, please describe.

Answered: 15	Skipped: 22						
RESPONSES	(15) W	ORD CLOUD	TAGS (0)				
Cloud Vie	W List V	/iew					
▼ n					20.00%	3	
▼ Road					20.00%	3	

Q23		Save as ▼
would like to a	e a list of projects or programs th complete in order to reduce your ng loss of operation/service, to h	vulnerability to damages and
RESPONSES (16)	WORD CLOUD TAGS (0)	
Cloud View Lis	t View	
		Customize
	training	
	Emerge	ncy
	systems	water

Save as▼

Customize

Please list any projects or programs that you have recently implemented that you believe will reduce your facility's/organization's vulnerability, damage, and losses (including loss of operation/service) due to hazard events.

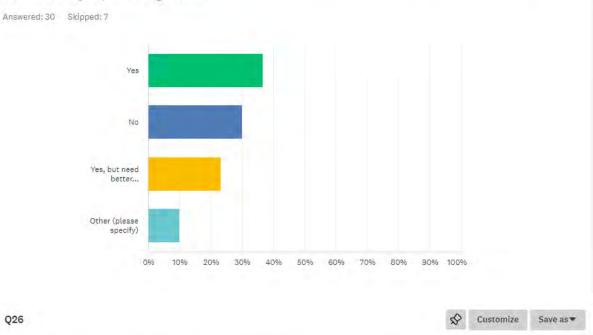
Answered: 16 Skipped: 21	
RESPONSES (16) WORD CLOUD	TAGS (0)
Cloud View List View	

Planning water Generator

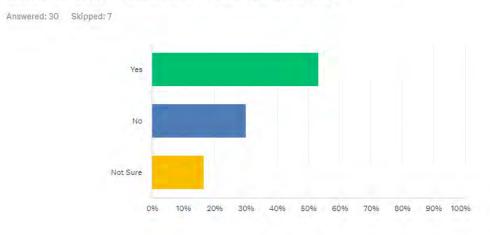
Customize Save as

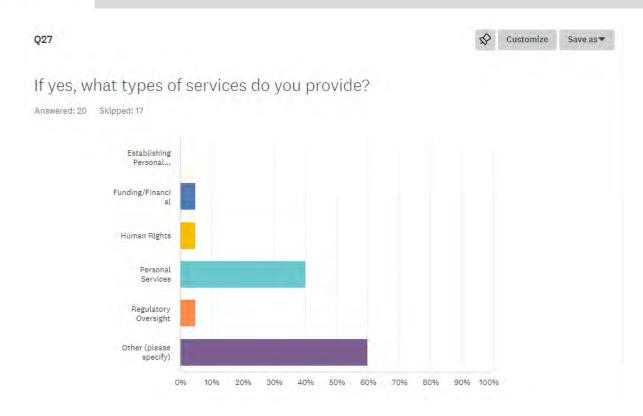
S

Are you aware of the number and location of vulnerable populations in your community/operating area?

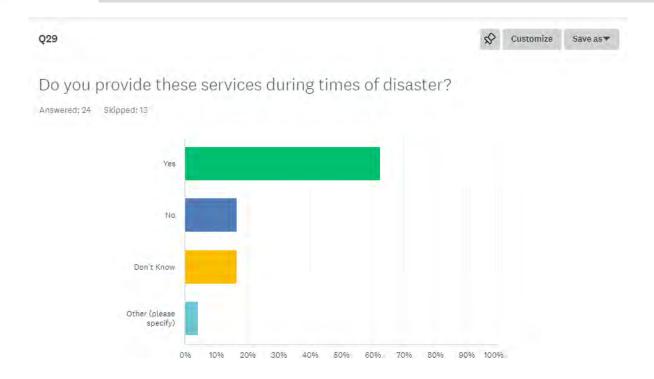


Does your agency provide assistance to any socially vulnerable or underserved populations in Rockland County?





Q28		Save as	•
Please provide a list of the populations or communities serve agency. Answered: 19 Skipped: 18	ed by ya	our	
RESPONSES (19) WORD CLOUD TAGS (0)	Sentime	ents: OFF	6
Q Search Responses	Filte	r: by tag 🔻	
Showing 19 responses			
People with Intellectual and Developmental Disabilities.			-
2/26/2024 06:07 PM View responder	it's answers	Add tags 🔻	
elderly			
2/16/2024 10:43 AM View responder	it's answers	Add tags 🔻	1
primarily the jewish community but we respond to emergencies without regard to any religious or other	affiliation		
2/15/2024 02:24 PM View responder	it's answers	Add tags▼	
Affordable Housing for senior citizens and low-income families.			
2/12/2024 06:48 PM View responder	it's answers	Add tags▼	
Frail elderly, immigrants			•



Q30	\$ Save as▼
What barriers and community character that may create additional vulnerabilit not limited to access to transportation disadvantages, physical health (chroni age (older adults and children), and ru	ies to hazards? This may include but is , broadband access, economic c diseases), limited physical mobility,
RESPONSES (17) WORD CLOUD TAGS (0)	
Cloud View List View	
	Customize
limi	ited
phy	sical health

P

Save as 🕶

0	-	1
υ	3	1

Do you have any questions or comments for Rockland County?

Answered: 10 Skipped: 27		
RESPONSES (10) WORD CLOUD TAGS (0)	Sent	iments: OFF
Q Search Responses	Filter	by tag 💌
Showing 10 responses		
2/10/2024 01:20 PM	View respondent's answers	Add tags 🗸 🔺
Appreciate your partnership in having this survey.		
2/9/2024 08:29 AM	View respondent's answers	Add tags 🗸
Please review and implement reasonable recommendations from DEC water	shed mitigation study	
2/8/2024 06:29 PM	View respondent's answers	Add tags▼
Is the County willing to collaborate with United Hospice to address underut	ilization of hospice in Rockland County	1?
2/8/2024 02:20 PM	View respondent's answers	Add tags▼
n/a		
2/8/2024 01:19 PM	View respondent's answers	Add tags 👻 🛛 👻

Save as 🔻

Figure D-3. Screenshot of Neighboring Community Survey Response

Q1

Contact Information

Answered: 4 Skipped: 0

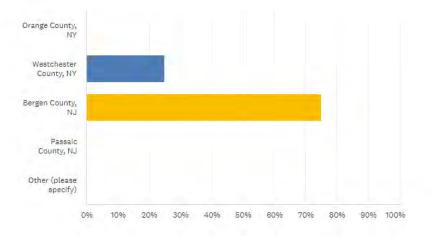
ANSWER CHOICES	•	RESPONSES	•
Name	Responses	100.00%	4
Department/Agency	Responses	100.00%	4
Address	Responses	0.00%	0
Address 2	Responses	0.00%	0
City/Town	Responses	100.00%	4
State/Province	Responses	0.00%	0
ZIP/Postal Code	Responses	0.00%	0
Country	Responses	0.00%	0
Email Address	Responses	100.00%	4
Phone Number	Responses	100.00%	4

Q2

Save as 🕈

Please indicate the county or municipality your organization represents.

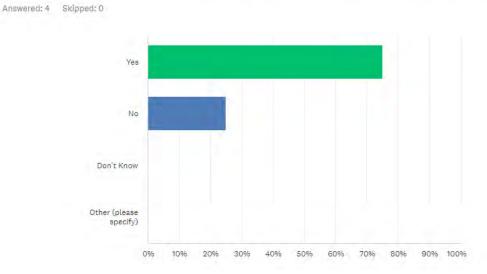
Answered: 4 Skipped: 0



Q3 S Customize Save as -Do you have any shared service agreements or mutual aid agreements in place with Rockland County or any Rockland municipalities for the following? Answered: 2 Skipped: 2 Equipment and staff for... Emergency staff for Damage assessments Sheltering Other If you checked any of the... 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% Customize Save as -S

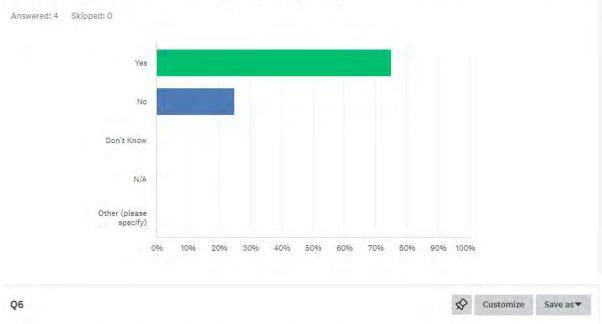
Q4

Do you include Rockland County or any Rockland municipalities in your community's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

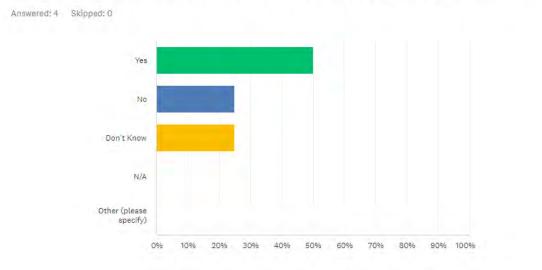


Save as

Does your community participate in Rockland County's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?



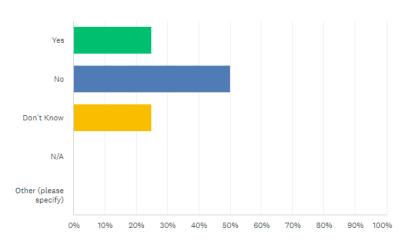
Do you include Rockland County or any Rockland municipalities in your community's Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of your community's essential functions for a period of time?



🛇 Customize Save as 🕶

Does your community participate in Rockland County or any Rockland municipality's Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of Rockland County's essential functions for a period of time?





😒 🛛 Save as 🔻

Thinking about emergency operations and disaster response, please explain how these actions are communicated between your community and Rockland County.

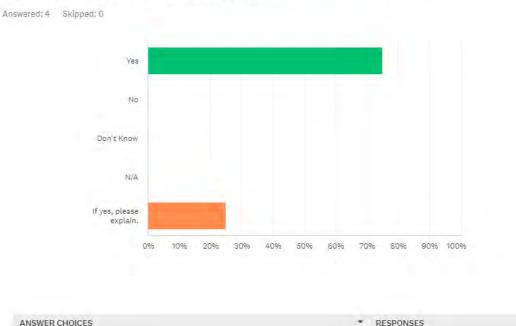
Answ	rered: 3 Skipped: 1			
R	ESPONSES (3) WORD CLOUD TAGS (0)		Sentiments:	
Q	Search Responses		7 Filter: by f	tag 🔻
	Regional Emergency Preparedness Coordination Meetings 12/11/2023 03:48 PM V	'iew responde	ent's answers	Add tags▼
	The Bergen County Office of Emergency provides a Liaison Officer to Rockland County's Eme scale pre-planned or spontaneous emergency incidents. The Bergen County Liaison Officer w Rockland County and Bergen County for resource requests and information sharing.			
	12/6/2023 03:09 PM	'iew responde	ent's answers	Add tags▼
	44 control contacts Mahwah PD, and mutual FD radio frequencies			
	12/1/2023 06:57 AM V	'iew responde	ent's answers	Add tags▼

S

Q9

Customize Save as *

Does your community have access to contact information for Rockland County's emergency operation centers?



ANSWER CHOICES		RESPONSES	
✓ Yes		75.00%	3
✓ No		0.00%	Ø
 Don't Know 		0.00%	0
✓ N/A		0.00%	٥
 If yes, please explain. 	Responses	25.00%	1
RESPONSES (1) WORD CLOUD TAGS (0)		ş	Sentiments: OFF
Q Search Responses		0	Filter: by tag 🔻
Showing 1 response			
PD has contact numbers			
12/1/2023 07:04 AM		View respondent's	answers Add tags 🗸

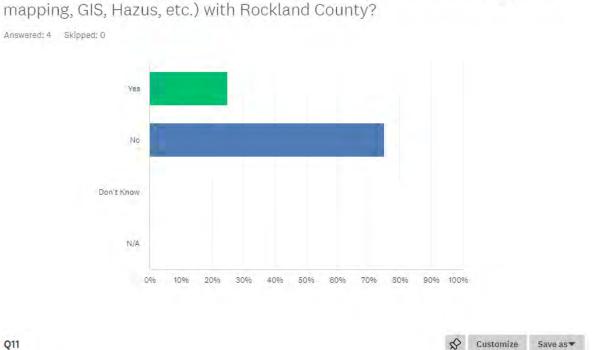
Save as -

Customize

S

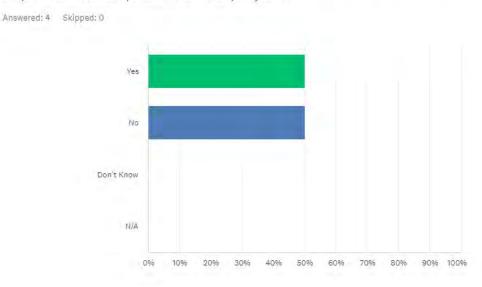
Q10

Does your community share risk and vulnerability assessments (e.g., flood



Q11

Is information regarding mitigation shared during the planning and implementation phases of the projects?



TETRA TECH ΠĿ

\$

Save as •

Q12

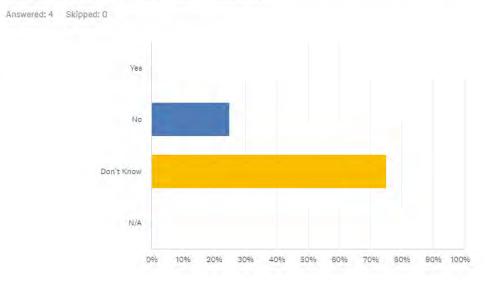
Please describe any situations or hazards that are of concern to both your community and Rockland County. For example, would flooding along a particular waterway impact both jurisdictions, or are there any facilities or infrastructure that would affect both jurisdictions if it/they failed?

RESPONSES (3) WORD CLOUD TAGS (0)	Sentiments: OFF
Q Search Responses	🕢 Filter: by tag 💌
Showing 3 responses	
Hudson River Flooding. Indian Point Energy Center Radiological eme	rgency
12/11/2023 03:50 PM	View respondent's answers Add tags
Anytime there is a significant water event such as a hurricane / tropi way into the streams transferring water that falls on the land as pre- waterways. The water that flows from Rockland County into Bergen of land and property around infrastructure.	cipitation (rain, snow, sleet, and hail) into Bergen County
way into the streams transferring water that falls on the land as pre- waterways. The water that flows from Rockland County into Bergen	cipitation (rain, snow, sleet, and hail) into Bergen County
way into the streams transferring water that falls on the land as pre- waterways. The water that flows from Rockland County into Bergen of land and property around infrastructure.	cipitation (rain, snow, sleet, and hail) into Bergen County County can be some of the main agent of erosion (wearing away)

Q13	Save as▼
Please explain how information is shared Rockland County and any Rockland muni- projects.	
RESPONSES (3) WORD CLOUD TAGS (0)	Sentiments: OFF
Q Search Responses	👔 Filter: by tag 🔻
Showing 3 responses	
N/A	
12/11/2023 03:50 PM	View respondent's answers Add tags 🗸
Mitigation planning dialogue.	
12/6/2023 03:49 PM	View respondent's answers Add tags▼
Not aware of any.	
12/1/2023 07:04 AM	View respondent's answers Add tags

Are you aware of any projects for the follo collaboration between jurisdictional boun	wing that requires c daries?	ross-	
inswered: 0 Skipped: 4			
A No matching re-	sponses.		
ANSWER CHOICES		* RESPONSE	es 🖛
 Stormwater projects 		0.00%	0
 Watershed projects or planning 		0.00%	Ø
 Floodplain projects or planning 		0.00%	0
 Connected roadway improvements 		0.00%	0
 Natural infrastructure restoration 		0.00%	0
 Outreach (education and outreach campaigns, programs for public information) 	nation, etc.)	0.00%	D
		0.00%	0
Total Respondents: 0			
Comments (1)			
RESPONSES (1) WORD CLOUD TAGS (0)	13	entiments: OFF	() (i)
Q Search Responses	ø	Filter: by tag	
	0	Filler, by tag	
Showing 1 response			
I would have to check with Bergen County Planning and Engineer	ing.		
12/6/2023 03:52 PM	View respondent's	answers Add	i tags 🕶

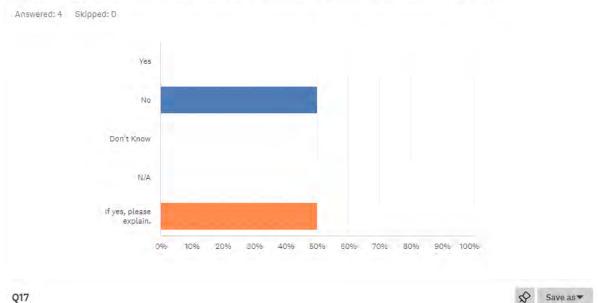
Has your jurisdiction and Rockland County or any Rockland municipalities collaborated on grant applications?



Q15

Save as

Are you aware of any organizations that carry out education and outreach regarding hazards in both your community and Rockland County?



What are opportunities or ideas to optimize cooperation with Rockland County on emergency management operations and hazard mitigation projects?

Answered: 3 Skipped: 1			
RESPONSES (3) WORD CLOUD TAGS (0)		Sentiments	OFF
Q Search Responses		Ø Filter: by	tag 💌
Showing 3 responses			
Enhanced communications regarding specific planning and projects.			
12/11/2023 03:53 PM	View respond	dent's answers	Add tags▼
Rockland County and Bergen County Planning and Engineering meeting periodically.			
12/6/2023 03:52 PM	View respond	lent's answers	Add tags▼
Attend planning & response meetings.			
12/1/2023 07:07 AM	View respond	lent's answers	Add tags▼

			N	Customize	Save as *
Do you collaborate with Rockland County or establishing evacuation routes and alternate					ies on
nswered: 4 Skippped: 0					
Yes					
No					
Den't Knew					
54/A					
tf yes, please explain.					
046 1046 2049 2046 4046 5046 5	50% 70	0% 80% 90%	1005		
0% 10% 20% 30% 40% 50% 6	50% 70 *	RESPONSES	1005		
			1005		a
ANSWER CHOICES		RESPONSES	1005		0
ANSWER CHOICES		RESPONSES 0.00%	1005		
ANSWER CHOICES Yes No		RESPONSES 0.00% 75.00%	1005		3
ANSWER CHOICES • Yes • No • Don't Know • N/A		RESPONSES 0.00% 75.00% 0.00%	10.05		3 0
ANSWER CHOICES • Yes • No • Don't Know • N/A	•	RESPONSES 0.00% 75.00% 0.00%		s entiments: OFI	.3 0 0 1
ANSWER CHOICES Yes No Don't Know N/A If yes, please explain. Resp	•	RESPONSES 0.00% 75.00% 0.00%	5		3 0 1 1
ANSWER CHOICES Yes No Don't Know N/A If yes, please explain. Responses (1) WORD CLOUD TAGS (0)	•	RESPONSES 0.00% 75.00% 0.00%	5	entiments: OFi	3 0 1 7

Customize Save as

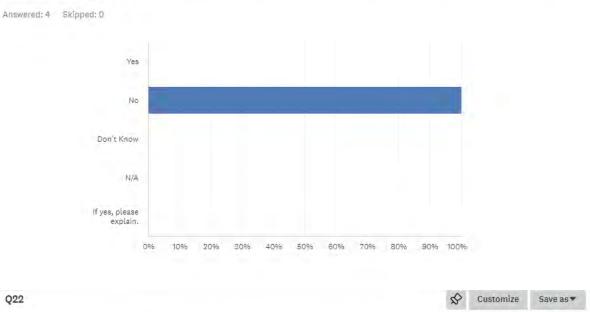
S

Do you and Rockland County or any Rockland County municipalities consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?

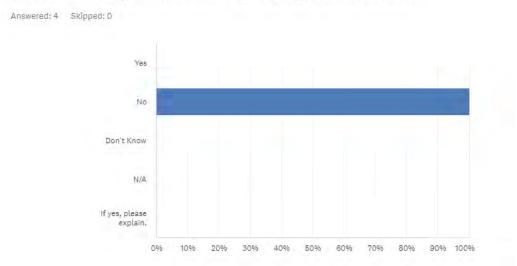


🛇 Customize Save as 🔹

Do you collaborate with Rockland County or any Rockland municipalities on establishing shelters?



Do you and Rockland County or any Rockland municipalities consult with one another before making sheltering decisions that would impact one another (recommending shelters in neighboring communities)?



Customize Save as •

S

Do you and Rockland County share any spaces suitable for temporary housing? This includes locations suitable to place temporary housing units to house residents displaced by a disaster.

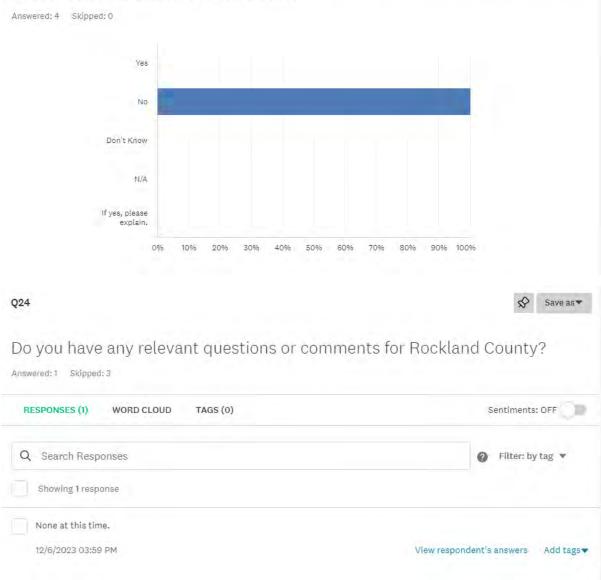
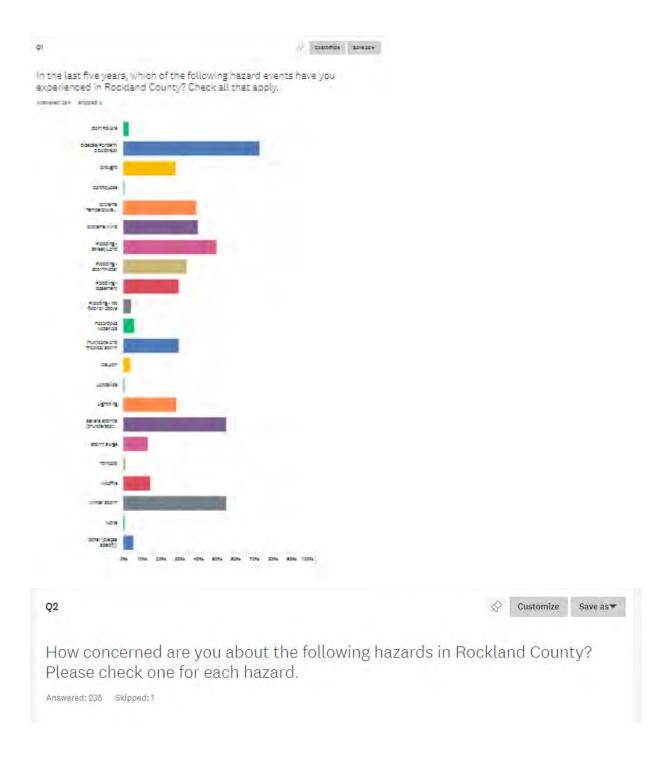
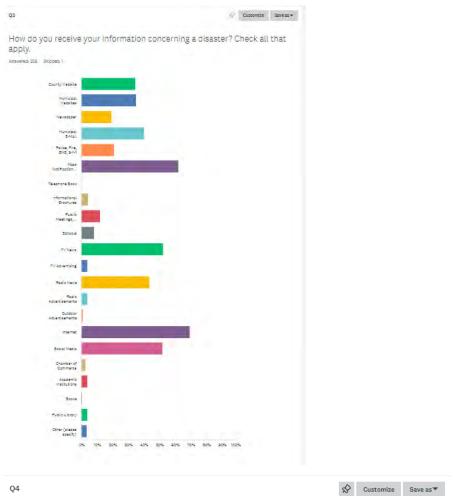


Figure D-4. Screenshot of Public Survey Response



•	NOT CONCERNED	SOMEWHAT CONCERNED	CONCERNED *	VERY CONCERNED	EXTREMELY CONCERNED	TOTAL RESPONDENTS
▼ Dam Failure	63.38% 135	22.07% 47	7.98% 17	3.29% 7	3.29% 7	213
 Disease/Pandemic Outbreak 	12.72% 29	25.00% 57	28.51% 65	17.11% 39	16.67% 38	228
 Drought 	22.03% 50	33.04% 75	28.19% 64	12.33% 28	5.29% 12	227
 Earthquake 	65.02% 145	27.80% 62	4.48% 10	0.90% 2	1.79% 4	223
 Extreme Temperatures (heat and cold) 	17.32% 40	29.00% 67	25.11% 58	19.05% 44	9.52% 22	231
 Extreme Wind 	7.86% 18	27.51% 63	30.57% 70	23.58% 54	10.92% 25	229
 Flooding - Street/Property 	6.01% 14	20.17% 47	29.61% 69	25.75% 60	20.17% 47	233
 Flooding - Stormwater 	7.89% 18	19.30% 44	27.19% 62	28.07% 64	18.86% 43	228
 Flooding - Basement 	16.59% 37	21.52% 48	26.01% 58	18.83% 42	18.83% 42	223
 Flooding - 1st Floor or above 	52.83% 112	23.11% 49	10.85% 23	7.08% 15	7.08% 15	212
 Hazardous Materials 	28.44% 64	27.56% 62	24.44% 55	9.33% 21	10.67% 24	225
 Hurricane and Tropical Storm 	12.83% 29	22.57% 51	33.63% 76	22.57% 51	9.29% 21	226
✓ Ice Jam	45.29% 101	30.04% 67	14.80% 33	6.28% 14	4.04% 9	223
 Land Slide 	.58.45% 128	24.66% 54	10.96% 24	3.65% 8	2.28% 5	219
 Lightning 	25.00% 56	35.27% 79	25.00% 56	9.38% 21	5.80% 13	224
 Severe Storms (thunderstorms, hail) 	9.65% 22	22.81% 52	26.32% 60	27.63% 63	13.60% 31	228
 Storm Surge 	31.84% 71	21.97% 49	21.97% 49	17.04% 38	7.62% 17	223
➡ Tornado	41.18% 91	32.13% 71	18.10% 40	7.24% 16	2.26% 5	221
	29.28% 65	33.78% 75	21.17% 47	9.46% 21	6.76% 15	222
▼ Winter Storm	8.81% 20	23.79% 54	30.40% 69	24.23% 55	13.66% 31	227
 Other Hazard 	58.54% 72	8.94% 11	17.89% 22	4.88% 6	10.57% 13	123
Comments (16)						

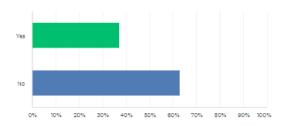
Rockland County



Q4

In the past, has your home been damaged by a hazard event (i.e., flood waters entering the first floor of your home or pipes freezing during periods of cold temperatures).

Answered: 234 Skipped: 2



Rockland County

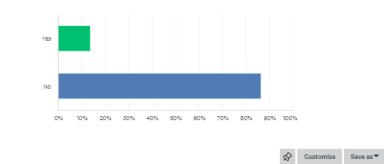


Q6

☆ Customize Save as▼

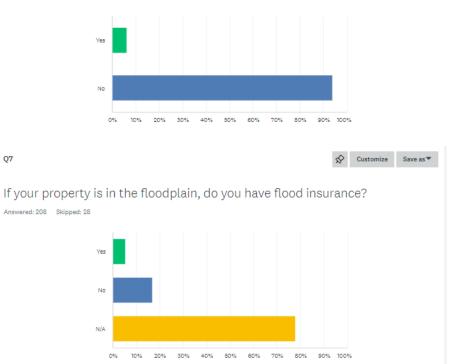
If you answered 'yes' above, did you report the damages to your local police or fire departments or to an emergency management agency?





To the best of your knowledge, is your property located in a designated floodplain? If you do not know, click here to find out.

Answered: 224 Skipped: 12



Rockland County



A number of activities can reduce your community's risk from natural hazards. These activities can be both regulatory and non-regulatory. Please check the box that best represents your opinion on the following strategies to reduce the risk and loss associated with natural hazards in Rockland County.

Answered: 190 Skipped: 46

	•	STRONGLY -	AGREE 🔻	NEUTRAL 🔻	DISAGREE 🔻	STRONGLY DISAGREE	NOT SURE	TOTAL 🔻
•	Regulatory approach to reducing risk	27.13% 51	43.09% 81	16.49% 31	4.79% 9	3.19% 6	5.32% 10	188
•	Non-regulatory approach to reducing risk	17.30% 32	36.76% 68	24.86% 46	8.11% 15	4.86% 9	8.11% 15	185
•	Combination of regulatory and non-regulatory approaches to reducing risk	29.63% 56	45.50% 86	13.76% 26	4.23% 8	2.12% 4	4.76% 9	189
•	Policies that prohibit development in areas subject to natural hazards	49.74% 94	33.86% 64	11.11% 21	1.59% 3	2.65% 5	1.06% 2	189
•	Use of local tax dollars to reduce risks and losses from natural hazards	22.22% 42	50.26% 95	16.93% 32	6.35% 12	2.12% 4	2.12% 4	189
•	Protect historical and cultural assets	32.11% 61	47.89% 91	15.26% 29	2.11% 4	2.63% 5	0.00% 0	190
•	Making your home more disaster-resilient	36.70% 69	46.81% 88	12.77% 24	0.53% 1	1.60% 3	1.60% 3	188
•	Implement steps to safeguard the local economy following a disaster	32.63% 62	53.68% 102	7.89% 15	1.58% 3	2.11% 4	2.11% 4	190
•	Improve disaster preparedness of local schools	40.53% 77	46.32% 88	10.00% 19	2.11% 4	0.53% 1	0.53% 1	190
•	Develop local inventory of at-risk buildings and infrastructure	37.23% 70	49.47% 93	9.04% 17	1.60% 3	1.06% 2	1.60% 3	188
•	Enforce the disclosure of natural hazard risks during real estate transactions	55.03% 104	32.80% 62	7.41% 14	2.12% 4	2.12% 4	0.53% 1	189
Co	mments (9)							

Comments (9)

Q10

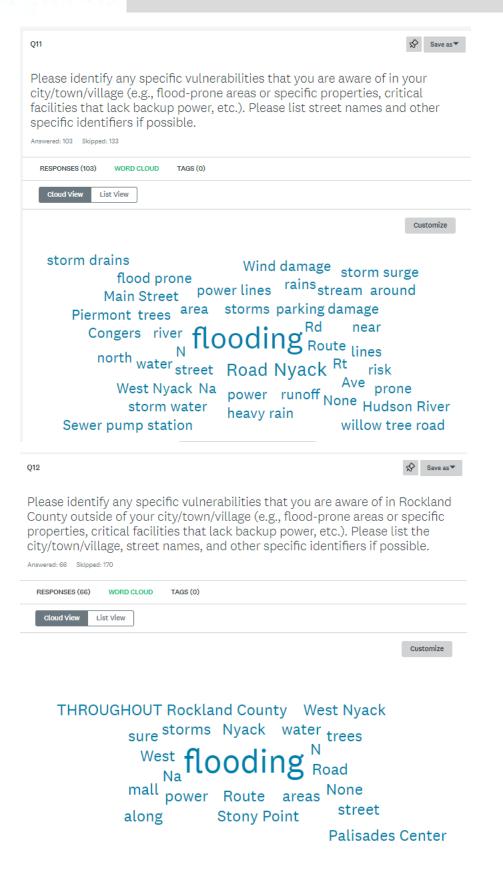
🛠 Customize Save as 🔻

Natural hazards can have a significant impact on a community, but planning for these events can help lessen the impacts. The following statements will help us determine the priorities of our residents regarding planning for natural hazards in Rockland County. Please tell us how important each one is to you.

Answered: 189 Skipped: 47

	Ť	VERY IMPORTANT	SOMEWHAT IMPORTANT	NEUTRAL 🔻	NOT VERY IMPORTANT	NOT IMPORTANT	TOTAL 👻
 Protecting 	private property	63.10% 118	30.48% 57	.5.88% 11	0.00% 0	0.53% 1	187
	critical facilities unity lifelines	89.89% 169	8.51% 16	1.06% 2	0.00% 0	0.53% 1	188
hazard are	development in as (e.g., restrict the floodplain)	69.15% 130	21.28% 40	8.51% 16	0.53% 1	0.53% 1	188
 Enhance th natural fea streams, w 		71.81% 135	21.81% 41	5.85% 11	0.00% 0	0.53% 1	188
 Protecting cultural lar 	historical and ndmarks	40.43% 76	47.34% 89	9.57% 18	1.06% 2	1.60% 3	188
 Protecting damages to 	and reducing o utilities	87.83% 166	10.58% 20	1.06% 2	0.53% 1	0.00% 0	189
	ing emergency .g., police, fire,	77.78% 147	15.34% 29	5.82% 11	0.53% 1	0.53% 1	189
	natural hazard g real estate 19	66.14% 125	23.28% 44	7.94% 15	2.12% 4	0.53% 1	189
among pub residents, i	ons, and local	68.98% 129	25.67% 48	4.81% 9	0.53% 1	0.00% 0	187

Comments (5)



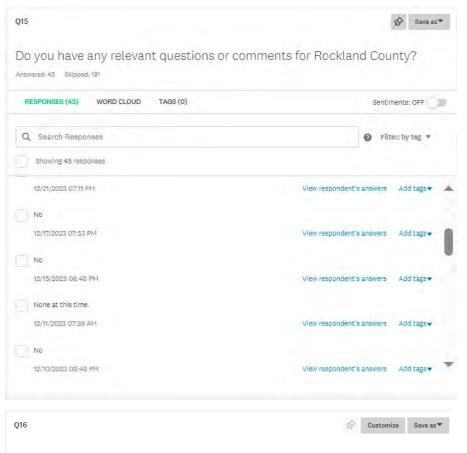
Rockland County

Q13		5	Save as	•
Do you have any other comments, questions, or co mitigation in Rockland County? Answered: 63 Skipped: 173	oncerns reg	arding	hazard	
RESPONSES (63) WORD CLOUD TAGS (0)		Sentim	ents: OFF	
Q Search Responses Showing 63 responses		🛛 Filte	r: by tag 🔻	
Нарру 2/20/2024 12:36 PM	View respondent's	s answers	Add tags▼	Î
zoning laws are ignored, and the penalties for violations are too low are not enforced 2/4/2024 03:37 PM	I View respondent's	s answers	Add tags √	
N/A 1/31/2024 11:10 AM	View respondent's	s answers	Add tags▼	
Thank you for your work 1/20/2024 06:11 PM	View respondent's	s answers	Add tags √	
No				•
Q14	\$	Customize	Save as	,

In the following list, please check those activities that you have done in your home, plan to do in the near future, have not done, or are unable to do. Please check one answer for each activity that you or someone in your household have done.

Answered: 183 Skipped: 53

•	HAVE DONE	NOT DONE YET, BUT STARTED	NOT STARTED YET, BUT PLAN ▼ TO DO	DO NOT PLAN TO V DO	TOTAL 🔻
 Attend meetings or received information on natural disasters or emergency preparedness 	51.38% 93	7.18% 13	26.52% 48	14.92% 27	181
 Talked with members in your home about what to do in case of a natural disaster or emergency 	62.98% 114	11.05% 20	22.10% 40	3.87% 7	181
 Developed an emergency plan for your home and family in order to decide what everyone will do in the event of a disaster or emergency 	45.90% 84	23.50% 43	26.78% 49	3.83% 7	183
 Prepared a disaster supply kit with extra food, water, batteries, etc. 	39.34% 72	24.59% 45	30.05% 55	6.01% 11	183
▼ Become trained in first aid and/or CPR	51.91% 95	7.10% 13	19.13% 35	21.86% 40	183
 Installed smoke detectors throughout home 	95.05% 173	2.75% 5	1.10% 2	1.10% 2	182
 Discussed or created a utility shutoff procedure in the event of a natural disaster 	31.87% 58	17.58% 32	36.26% 66	14.29% 26	182
Comments (6)					



Please indicate the municipality in which you live:

Answered: 188 Skipped: 48

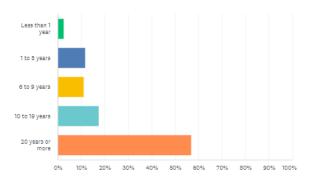
ANSWER CHOICES	*	RESPONSES	*
✓ Airmont (V)		1.06%	2
✓ Chestnut Ridge (V)		0.53%	1
 Clarkstown (T) 		10.64%	20
		0.53%	1
✓ Haverstraw (T)		1.06%	2
✓ Haverstraw (V)		1.60%	з
✓ Hillburn (V)		0.00%	0
✓ Kaser (V)		0.00%	0
✓ Montebello (V)		0.53%	1
✓ New Hempstead (V)		2.13%	4
✓ New Square (V)		0.53%	1
 Nyack (V) 		30.85%	58
✓ Orangetown (T)		10.11%	19
 Piermont (V) 		1.60%	з
 Pomona (V) 		0.53%	1
 Ramapo (T) 		2.13%	4
 Sloatsburg (V) 		1.06%	2
 South Nyack (V) 		0.53%	1
 Spring Valley (V) 		0.53%	1
 Stony Point (T) 		7.45%	14
▼ Suffern (V)		0.53%	1
 Upper Nyack (V) 		7.45%	14
✓ Wesley Hills (V)		18.09%	34
✓ West Haverstraw (V)		2.13%	4
✓ Other (please specify)	Responses	2.13%	4
Total Respondents: 188			

Q17

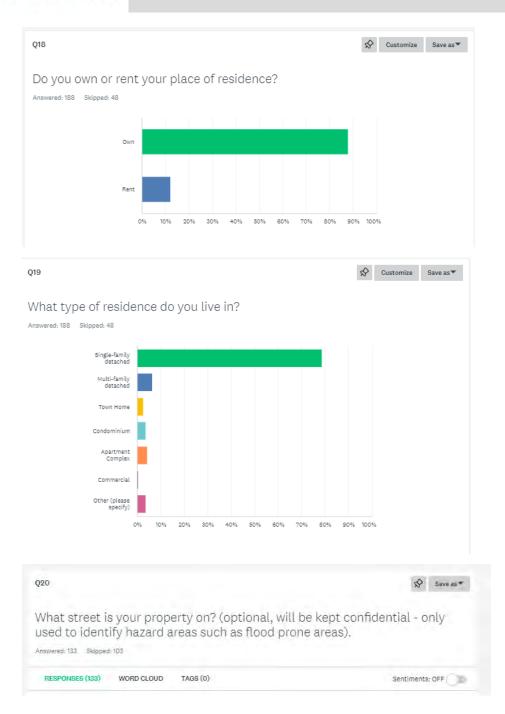
☆ Customize Save as▼

How long have you lived here?

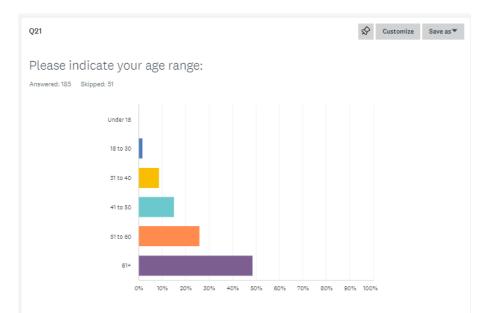
Answered: 188 Skipped: 48



Rockland County



Rockland County



APPENDIX E. MITIGATION STRATEGY SUPPLEMENTARY DATA

This appendix summarizes additional activities and resources provided to plan participants to support the update of the mitigation strategy.

E.1 MITIGATION STRATEGY WORKSHOP RESOURCES

On December 13, 2023, a Mitigation Strategy Workshop was held for all plan participants. The workshop was held virtually and was led by the contract consultant, supplemented by emails and phone calls between Rockland County and the contract consultant, for all participants to support the development of focused problem statements based on the impacts of natural hazards in the county and their communities. These problem statements were intended to provide a detailed description of the problem area, including its impacts to the municipality/jurisdiction; past damages; loss of service; etc. An effort was made to include the street address of the property/project location, adjacent streets, water bodies, and well-known structures as well as a brief description of existing conditions (topography, terrain, hydrology) of the site. These problem statements formed a bridge between the hazard risk assessment which quantifies impacts to each community with the development of actionable mitigation strategies. Resources available at the workshop and follow up discussions included the following to assist with the identification of mitigation alternatives and the development of the mitigation strategy workshops found in Section 9 (Annexes).

- 1. Rockland County Problem Statements
- 2. FEMA Mitigation Action Types
- 3. FEMA Mitigation Ideas
- 4. FEMA Grant Priorities
- 5. FEMA Region 2 Funding Sources for New York State



Please complete the online form (one for each action) by <u>January 10th</u>. The online form is available here: <u>https://forms.office.com/r/j7qdFnc8mA</u>

Guidance to Complete the Mitigation Action Online Form

The following provides additional guidance on how to complete the Mitigation Action Online Form (<u>https://forms.office.com/r/j7qdFnc8mA</u>). Please note that FEMA requires a minimum of one proposed mitigation activity that align with the identified hazards of concern for the HMP. Please complete one form for every mitigation action.

Contact Information

Name: Provide the name of the person completing the online form

Title: Provide the title of the person completing the online form

Email: Provide the email address of the person completing the online form

Jurisdiction: Provide the name of the jurisdiction you are completing the form for

Action Worksheet Online Form

Project Name: Please identify a unique project name for the mitigation action.

Project Number: 2023-Jurisdiction-001.

Assessing the Risk and Vulnerability

Description of the Problem: Provide a detailed narrative of the problem. Describe the hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.

Hazard(s) of Concern: Please identify the hazard(s) being addressed with this action.

- Dam/Levee Failure
- Disease Outbreak
- Drought
- Extreme Temperature (heat/cold)
- Flood (Riverine/Flash/Stormwater)
- Landslide
- Severe Storm (Lighting/Hail/ Wind/Hurricane)
- Severe Winter Storm
- Wildfire

Action/Project Intended for Implementation

Description of the Solution: Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving





activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).

Lead Agency: Identify the lead agency (and department/bureau if applicable) responsible for implementing this action.

Support Agency: Identify any supporting agencies and/or departments that will partner with the lead agency to complete the action or any phase of the action.

Critical Facility/Community Lifeline: Indicate whether or not the identified project is related to a critical facility or lifeline in your community. If the project is related, describe how the action will reduce risk to the facility/lifeline.

Estimated Cost: Identify all estimate costs associated with completing and implementing the identified project.

Potential Funding Source(s): Identify multiple sources of potential funding. For example, FEMA HMGP, FMA, and BRIC Grants, CDBG-DR funding, etc. For ideas, refer to: <u>https://www.fema.gov/sites/default/files/2020-09/fema_region-03_mitigation-funding-resource-quide_new-york-09-24-2020.pdf</u>

Timeline: Identify the estimated timeline for project implementation (start to finish).

Goals: Identify the goal(s) the action meets.

- 1. Protect Life
- 2. Protect property, including public and private property, critical facilities, community lifelines, and infrastructure.
- 3. Increase education and awareness, and promote relationships with stakeholders, citizens, government officials, socially vulnerable populations, and property owners to develop opportunities for mitigation of natural hazards.
- 4. Encourage the development and implementation of long-term, cost-effective, and resilient mitigation projects to preserve or restore the functions of natural systems.
- 5. Build regional, County and local mitigation and related emergency management capabilities.
- 6. Promote local and regional sustainability.
- 7. Support comprehensive County and local mitigation through the integration of hazard mitigation planning into related County and local plans and programs.

Estimated Benefits: Identify the benefits that implementation of this project will provide (e.g., risk reduction). If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.

Mitigation Action Type:

- <u>Local Plans and Regulations (LPR)</u> These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- <u>Structure and Infrastructure Project (SIP)</u> These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.



Rockland County

- <u>Natural Systems Protection (NSP)</u> These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- <u>Education and Awareness Programs (EAP)</u> These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Social Vulnerability: Identify whether or not the action reduces risk for underserved communities and/or socially vulnerable populations. If it does, provide an explanation as to how it reduces risk.

New Development: Identify whether or not the action reduces risk in areas that are under development pressures. If it does, provide an explanation as to how it reduces risk.

Capabilities: Identify whether or not the action supports/improves/develops local mitigation capabilities. If it does, explain how the action supports/improves/develops capabilities.

Climate Change: Identify whether or not the action considers/addresses anticipated changes to hazards as a result of climate change. If it does, explain how.

Plan for Implementation

Prioritization: Please enter High/Medium/Low. Refer to the prioritization exercise and table.

Guidance to Complete the Prioritization Table

For each criteria, identify whether it is high effectively/feasible, neutral, or ineffective/not feasible for the mitigation action. The 14 evaluation/prioritization criteria are:

- 1. Life Safety How effective will the action be at protecting lives and preventing injuries? Will the proposed action adversely affect one segment of the population?
- 2. Property Protection How significant will the action be at eliminating or reducing damage to structures and infrastructure? Developing in the floodplain or high-risk areas?
- 3. Cost-Effectiveness Are the costs to implement the project or initiative commensurate with the benefits achieved?
- 4. Political Is there overall public support for the action? Is there the political will to support it? Is the action at odds with development pressures?
- 5. Legal Does the jurisdiction have the authority to implement the action?
- 6. Fiscal Can the action be funded under existing program budgets (i.e., is this initiative currently budgeted for)? Or would it require a new budget authorization or funding from another source such as grants?
- 7. Environmental What are the potential environmental impacts of the action? Will it comply with environmental regulations? Are there co-benefits of this action?
- 8. Social Vulnerability Does the action benefit socially vulnerable populations and underserved communities? Additional considerations can include the SVI index and other appropriate measures of social vulnerability.
- 9. Administrative Does the jurisdiction have the personnel and administrative capabilities to implement the action and maintain it or will outside help be necessary?





- 10. Hazards of Concern Does the action address one or more of the jurisdiction's high-ranked hazards?
- 11. Climate Change Does the action address one or more of the entity's high-ranked hazards?
- 12. Timeline Can the action be completed in less than 5 years (within the planning horizon of the HMP)?
- 13. Community Lifelines Does this project benefit community lifelines?
- 14. Other Objectives Does the action advance other entity objectives, such as capital improvements, economic development, environmental quality, or open-space preservation? Does it support the policies of other plans and programs?





Building Resilient Infrastructure and Communities (BRIC)

FY 2023 Priorities:

- Incentivize natural hazard risk reduction activities to include those that address multi-hazards that mitigate risk to public infrastructure and disadvantaged communities as referenced in EO 14008;
- Incorporate nature-based solutions including those designed to reduce carbon emissions;
- Enhance climate resilience and adaptation; and
- Increase funding to applicants that facilitate the adoption and enforcement of the latest published editions of building codes.

Flood Mitigation Assistance (FMA)

FY 2023 Priorities:

- Capability- and-Capacity-Building Activities which enhance the knowledge, skills, expertise, etc., of the current workforce to expand or improve the administration of Flood Mitigation Assistance. These activities may be used to develop future Localized Flood Risk Reduction Projects and/or Individual Flood Mitigation Projects that will subsequently reduce flood National Flood Insurance Program (NFIP) claims.
- Localized Flood Risk Reduction Projects (previously Community Flood Mitigation Projects) to address community flood risk for the purpose of reducing national Flood Insurance Program flood claim payments.
- Individual Flood Mitigation Projects that mitigate the risk of flooding to individual NFIP-insured structures. FEMA will select eligible Individual Flood Mitigation Project subapplications on a competitive basis.
- FMA aims to incentivize flood mitigation activities and projects that advance equity and that will benefit disadvantaged communities.

Hazard Mitigation Grant Program (HMGP)

General Requirements for Projects:

- Solves a problem by preventing or substantially reducing hazard consequences and future risks.
- Has a beneficial impact by providing long-term meaningful and definable risk reduction benefits.
- Is cost effective with a project cost that is less than the loss from potential future damages.
- Is environmentally sound, creating no negative impacts on the environment, impoverished or minority populations, or surrounding communities.
- Complies with all state and federal laws, rules, and administrative requirements

Eligible Activities by Program

	HMGP Post			
Eligible Activities	HMGP	Fire	BRIC	FMA
1. Capability- and Capacity-Building				
New Plan Creation and Updates	Х	X	Х	Χ*
Planning-Related Activities	Х	Х	Х	-
Project Scoping/Advance Assistance	Х	X	Х	Х
Financial Technical Assistance	-	-	-	X
Direct Non-financial Technical Assistance	-	-	Х	-
Partnerships	-	-	Х	Х
Codes and Standards	Х	X	Х	-





Hazard Mitigation Plan 2024 Update | Rockland County FEMA Grant Priorities

Eligible Activities	HMGP	HMGP Post Fire	BRIC	FMA
Innovative Capability- and Capacity- Building ⁺	х	x	x	x
2. Mitigation Projects				1 10
Property Acquisition	Х	X	X	X
Structure Elevation	Х	X	Х	X
Mitigation Reconstruction	Х	x	Х	X
Localized Flood Risk Reduction	Х	X	Х	X
Non-Localized Flood Risk Reduction	Х	X	Х	X**
Stabilization	Х	x	Х	X
Dry Floodproofing Non-Residential Building	Х	x	Х	X
Tsunami Vertical Evacuation	Х	X	Х	-
Safe Room	Х	X	Х	
Wildfire Mitigation	Х	X	Х	1-37
Retrofit	X	X	Х	X ⁺
Secondary Power Source	Х	X	X	
Warning System (excluding earthquake early warning system)	х	x	х	
Earthquake Early Warning System	Х	X	Х	4
Aquifer Recharge, Storage and Recovery	Х	X	Х	X***
Innovative Mitigation Project**	Х	x	Х	X
3. Management Costs	Х	X	Х	X

* For FMA, new plans and plan updates must provide for the reduction of flood losses to structures for which National Flood Insurance Program (NFIP) coverage is available.⁹⁶

** For FMA, non-localized flood risk reduction projects such as dikes, levees, floodwalls, seawalls, groins, jetties, dams and large-scale waterway channelization projects are not eligible unless the administrator specifically determines in approving a mitigation plan that such activities are the most cost-effective mitigation activities for the National Flood Mitigation Fund.

*** For FMA, aquifer recharge, storage and recovery projects may be eligible under FMA if the purpose of the project is to provide flood mitigation benefits to NFIP participating communities and is demonstrated to eliminate future claims against the NFIP.

[†] Only flood-related retrofitting projects are eligible.

^{††} Innovative Capability- and Capacity-Building Activities and Innovative Mitigation Projects not described in the HMA Guide will be evaluated on their own merit against program requirements. Eligible activities will be approved on a caseby-case basis if assistance is available.





Rockland County Hazard Mitigation Plan | Mitigation Catalog

The purpose of this document is to help identify and evaluate potential mitigation actions for reducing risk to the hazards of concern in Rockland County. Remember, you will need to identify one mitigation action per hazard of concern, but one mitigation action can cover multiple hazards. Refer to FEMA's *Mitigation Ideas* for an additional resource in identifying actions - <u>https://www.fema.gov/sites/default/files/2020-06/fema-mitigation-ideas 02-13-2013.pdf</u>

Select the hazard name below (click hazard) to take you to the list of mitigation ideas for that hazard.

- \rightarrow Dam and Levee Failure
- \rightarrow Disease Outbreak/Pandemic
- \rightarrow Drought
- \rightarrow Earthquake
- \rightarrow Extreme Temperature
- \rightarrow Flood
- \rightarrow Landslide
- \rightarrow Severe Storm
- \rightarrow Severe Winter Storm
- \rightarrow Wildfire





Dam and Levee Failure

DAM AND LEVEE FAILURE	
Mitigation Ideas	
Manipulate the hazard:	
Remove dams or levees	
o Harden dams or levees	
o Set back levees	
Reduce exposure and vulnerability to the hazard:	
 Replace earthen dams or levees with hardened structures such as floodwalls 	
 Relocate critical facilities out of dam or levee failure inundation areas 	
 Consider open space land use in designated dam or levee failure inundations areas 	
 Elevate home to appropriate levels 	
 Have designated shelters/temporary/permanent housing locations for displaced persons 	
 Floodproof facilities within dam or levee failure inundation areas 	
 Adopt higher floodplain standards in mapped dam or levee failure inundation areas 	
 Retrofit critical facilities within dam or levee failure inundation areas 	
Build local capacity to respond to or prepare for the hazard:	
o Learn about risk reduction for the dam failure hazard	
 Learn the evacuation routes for a dam failure event 	
 Educate the public on early warning systems and the dissemination of warnings 	
Map dam or levee failure inundation areas	
 Enhance emergency operations plans to include a dam and/or levee failure component 	
 Institute monthly communications checks with dam and levee operators 	
o Inform the public on risk reduction techniques	
 Adopt real-estate disclosure requirements for the re-sale of property located within dam or levee failure inundation areas 	
 Consider the probable impacts of climate change in assessing the risk associated with the dam or levee failure hazard 	
 Establish early warning capability downstream of listed high-hazard dams 	
 Consider the residual risk associated with protection provided by dams and/or levees in future land use decisions 	
 Increase ability to respond quickly to events 	
Nature-based opportunities:	
 Restore and reconnect floodplains that have been degraded by development and structural flood control. 	
• Set back levees on systems that rely on levee protection to allow the river channel to meander, which reduces erosion and scour potential.	
• Acquire property within the floodplain, remove or relocate structures, and preserve these areas as open space in perpetuity.	
 Preserve floodplain storage capacity by limiting or prohibiting the use of fill within the floodplain. 	
 Incorporate green infrastructure into stormwater management facilities. 	
 Protect and/or restore riparian buffers. 	





Disease Outbreak/Pandemic

	DISEASE OUTBREAK/PANDEMIC
	Mitigation Ideas
•	Manipulate the Hazard:
	 None identified at this time to mitigate this hazard
•	Reduce exposure and vulnerability to the hazard:
	O PPE
	o Social distancing
	o Distanced work environment
	 Regular cleaning of work environment
•	Increase Capability:
	o Storage of PPE
	 Equipment for monitoring/treatment
	o Trainings for staff
	Public outreach and outreach
	 Maintain strong health regulations
	Nature-based opportunities:
	 None identified at this time to mitigate this hazard





Drought

	DROUGHT
	Mitigation Ideas
•	Manipulate the Hazard:
	o Ground water recharge through stormwater management
	o Improve water storage capacities
•	Reduce exposure and vulnerability to the hazard:
	 Identify and create groundwater backup sources
	Water use conflict regulations
	Reduce water system losses
	 Increase conventional storage that is filled during high-flow periods
	 Create water storage space to capitalize on big storms when they occur and store water for dry periods
•	Increase Capability:
	 Public education on drought resistance
	 Identify alternative water supplies for time of drought; mutual aid agreements with alternative suppliers.
	 Develop a drought contingency plan
	 Develop criteria triggers for drought related actions
	 Improve accuracy of water supply forecasts
	 Consider the probable impacts of climate change on the risk associated with the drought hazard
	 Support, participate in and advocate for funding for the Integrated Regional Water Management program
	o Support, encourage, and implement multi-benefit nature-based recharge projects such as off-channel wetlands that provide habitat and groundwater
	filtration and infiltration
	 Improve data collection and modernize forecasts for a changed climate
•	Nature-based opportunities:
	 Promote and use reclaimed water supplies
	 Promote and use active groundwater recharge





Earthquake

Earthquake

Mitigation Ideas

- Manipulate the Hazard:
 - o None
- Reduce exposure and vulnerability to the hazard:
 - o Locate critical facilities or functions outside of hazard area where possible.
 - o Harden infrastructure
 - o Provide redundancy for critical functions
 - o Adopt higher regulatory standards for structures
 - Conduct "rapid screening" programs for critical facilities to identify facilities that may be particularly prone to EQ damage, then develop investigation/action plans to address such structures

• Increase Capability:

- o Provide technical information and guidance
- o Enact tools to help manage development in hazard areas: tax incentives, information
- o Include retrofitting/replacement of critical system elements in CIP
- o Develop strategy to take advantage of post disaster opportunities
- o Warehouse critical infrastructure components such as pipe, power line, and road repair material.
- o Develop and adopt a Continuity of Operations / Continuity of Government Plan (COOP/COG)
- o Initiate triggers guiding improvements such as: (< 50% substantial damage/improvements)
- o Further enhance seismic risk assessment to target high hazard buildings for mitigation opportunities.
- o Develop a post disaster action plan that includes a grant funding and debris removal components.
- o Utilize warning systems
- o Educate builders and developers on seismic construction standards
- Nature-based opportunities:
 - Adopt land use regulations and policies that restrict or prohibit development in areas with high liquefaction susceptibility. Preserve these areas for open space uses





Extreme Temperature

		EXTREME TEMPERATURE
		Mitigation Ideas
•	Mai	nipulate the hazard:
	0	Plant trees to create shade in urban areas
•	Red	uce exposure and vulnerability:
	0	Harden infrastructure such as locating utilities underground
	0	Provide backup power sources at vital critical facilities
	0	Establish warming centers
	0	Consider "cool roofs" and "green roofs"
	0	Relocate critical infrastructure (such as power lines) underground
	0	Reinforce or relocate critical infrastructure such as power lines to meet performance expectations
	0	Provide warming centers for employees
	0	Use the best available technology to enhance the warning systems for all severe weather events.
	Buil	d local capacity:
	0	Increase communication alternatives
	0	Enhance public awareness campaigns to address issues of warnings and actions to take during extreme cold events.
	0	Use the best available technology to enhance the warning systems for all severe weather events.
	0	Coordinate severe weather warning capabilities and the dissemination of warning amongst agencies with the highest degree of capability.
	0	Provide NOAA weather radios to the public
	0	Retrofit above-ground utilities to underground facilities if appropriate
	0	Create a salt reserve or research alternates to stretch salt reserve
	Nat	ure-based opportunities:
	0	Planting of native plants—including along parking lots, streets, and in yards—can provide cooling effects. Vertical gardens, also referred to as green or living walls, involves planting on walls to provide shade for buildings. This helps to cool the building and surrounding area.
		Any solutions that convert built environments to natural environments such as forests, wetlands, and vegetation can aid in lowering temperatures. Natural environments and green vegetation provide more shade, moisture, and evaporation than built environments, all of which help reduce temperatures. These systems sequester carbon, helping to minimize future warming.





Flood

FLOOD

Mitigation Ideas

• Manipulate the Hazard:

- o Clear stormwater drains and culverts
- o Structural flood control: levee's, dams, channelization, revetments.
- Construct regional stormwater control facilities
- o Lead and develop a county-wide stream clearing strategy including the development of thresholds for response/action.
- o Maintain drainage system
- o Institute low-impact development techniques on property
- o Dredging, levee construction, and providing regional retention areas
- o Use structural flood control (levees, etc.) only when no nature-based alternative is feasible
- o Stormwater management regulations and master planning
- o Acquire vacant land or promote open space uses in developing watersheds to control runoff

Reduce exposure and vulnerability to the hazard:

- o Harden infrastructure, bridge replacement program
- o Provide redundancy for critical functions and infrastructure Locate/re-locate critical facilities outside of hazard area
- o Acquire or relocate identified repetitive loss properties.
- o Promote open space uses in identified high hazard areas via techniques such as: PUD's, easements, setbacks, greenways, sensitive area tracks.
- o Institute low impact development techniques on property
- o Acquire vacant land or promote open space uses in developing watersheds to control increases in runoff
- o Pass an ordinance to incorporate additional zoning classifications into flood zones within each municipality.
- o Consider increasing minimum freeboard beyond the state requirement
- o Harden structures and infrastructure (wet and dry-floodproofing)
- o Provide redundancy for critical functions and infrastructure
- Adopt appropriate regulatory standards such as cumulative substantial improvement/damage, freeboard, lower substantial damage threshold, compensatory storage.
- o Stormwater management regulations and master planning.
- o Adopt "no-adverse impact" floodplain management policies that strive to not increase the flood risk on down-stream communities.
- o Participate in the Community Rating System (CRS)
- Implement as-built regulatory requirements
- o Implement site review ordinances/requirements
- o Establish stream maintenance programs with stakeholders
- o Promote the use of vegetation/plants as green erosion control measures to reduce localized flooding.
- o Work with environmental groups to address removal of debris, log jams, etc. in flood vulnerable stream sections
- Increase Capability

Rockland County Hazard Mitigation Plan | 2024 Update Page 7





Hazard Mitigation Plan 2024 Update | Rockland County Mitigation Catalog

FLOOD

Mitigation Ideas

- Produce better hazard maps, and improve access to flood hazard mapping
- o Capture/survey "high-water" marks during flood events.
- o Provide technical information and guidance on appropriate mitigation options available to businesses and homeowners
- o Enact tools to help manage development in hazard areas (stronger controls, tax incentives, information)
- o Establish an additional layer of zoning within flood hazard areas
- o Develop strategy to take advantage of post disaster opportunities
- o Improve compliance with and enforcement of the NFIP
- o Develop mitigation partnerships with regional stakeholders
- o Develop and implement a public information strategy for flood hazard awareness, flood insurance (NFIP) and mitigation
- o Maintain existing data as well as gather new data needed to define risks and vulnerability.
- o Create a building and elevation inventory of structures in the floodplain
- o Identify flood prone areas that may be in need of new flood studies
- o Establish a program to identify and educate owners of flood-prone properties of potential mitigation options (e.g. elevations, relocations)
- o Charge a hazard mitigation fee on all new permits to create a hazard mitigation funding source for initiatives or grant cost share requirements.
- o Integrate floodplain management policies into other planning mechanisms within the planning area.
- o Establish a Stormwater Utility to deal with urban drainage/flooding issues
- o Establish incentives to promote flood hazard mitigation of private property (e.g. permit fee waivers).
- o Adopt ordinances/standards for cumulative damages and/or improvements
- o Upgrade NFIP Floodplain ordinance, as well as other ordinances to current or above current state and federal standards.
- o Develop and adopt a COOP
- o Join "Storm Ready" Program
- o Participate in county and regional training programs
- o Provide additional training/certification to NFIP floodplain administrators and code officials.
- o Implement annual training to account for turnover of municipal officials.
- o Maintain and enhance flood forecasting ability, including the establishment and maintenance of critical stream gages
- Explore grant funding opportunities and potential partnerships to help maintain existing gages and install additional gages to improve forecasting and flood warning ability.
- o Promote awareness and participation in alert systems
- o Support and participate in regional flood management efforts
- o Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones.
- o Provide continued and enhanced training for emergency responders
- o Establish a revolving "bank" or budget line item to fund grant application support
- Continue to review updated Flood Insurance Rate Maps to ensure accuracy as well as maintaining lines of communication with homeowners to make them aware of potential changes related to their property status.





FLOOD

Mitigation Ideas

- o Provide trainings for FPA's on the NFIP/Floodplain Best Practices and also pursue CFM accreditation for municipal FPA's.
- o Build and maintain relationships to develop regional watershed/floodplain mitigation solutions.
- Pursue grant funding opportunities to fund repairs of catchments and infrastructure on a proactive basis.
- Explore grant funding opportunities related to climate change to fund mitigation projects.
- Nature-Based Opportunities:
 - Restore and reconnect floodplains that have been degraded by development and structural flood control.
 - Use soft approaches for stream bank restoration and hardening (e.g., the introduction of large woody debris into a system).
 - o Set back levees on systems that rely on levee protection to allow the river channel to meander, which reduces erosion and scour potential.
 - Acquire property within the floodplain, remove or relocate structures, and preserve these areas as open space in perpetuity.
 - Preserve floodplain storage capacity by limiting or prohibiting the use of fill in the floodplain.
 - o Incorporate green infrastructure into stormwater management facilities
 - o Protect and/or restore riparian buffers





Landslide

GEOLOGICAL I	HAZARDS
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Mitigation Ideas

Manipulate the Hazard:

- o Implement reinforcement measures in high-risk areas
- o Use debris flow measures that may reduce damage in sloping areas, such as stabilization, emergency dissipation, and flow control measures
- o Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep, publicly owned slopes

Reduce exposure and vulnerability to the hazard:

- o Acquire structures in highest hazard areas (demolish and convert to restricted open space)
- o Create or increase setback limits on parcels near high-risk parcels
- o Locate critical facilities or functions outside of hazard area where possible
- o Stabilize vulnerable slopes near structures and infrastructure.
- Work with stakeholders such as USGS to develop appropriate risk reduction strategies.
- o Provide redundancy for critical functions
- o Adopt land use policies that prohibit the placement of habitable structures in high-risk expansive soils and/or erosion areas

Increase Capability:

- o Provide better hazard maps
- o Provide technical information and guidance
- o Work with stakeholders such as USGS to develop appropriate risk reduction strategies.
- o Enact tools to help manage development in hazard areas: tax incentives, information
- o Develop strategy to take advantage of post disaster opportunities
- o Warehouse critical infrastructure components such as pipe, power line, and road repair material.
- o Develop and adopt a Continuity of Operations / Continuity of Government Plan (COOP/COG)
- Utilize warning systems
- Nature-based opportunities:
 - o Replace or restore native vegetation known to stabilize steep slope areas.
 - o Hybrid solutions refer to conventional engineering solutions that are combined with nature-based solutions using appropriate vegetation.





Severe Storm

SEVERE STORM/HURRICANE/TORNADO

Mitigation Ideas

Manipulate the Hazard:

- None identified at this time to mitigate this hazard
- Reduce exposure and vulnerability to the hazard:
 - o Harden or relocate infrastructure such as locating utilities underground.
 - o Trimming trees back from power lines
 - o Designate and strengthen critical road sections and bridges.
 - o Adopt ordinances that regulate the type and quantity of trees planted near utility lines
 - o Use the best available technology to enhance the warning systems for all severe weather events.

• Increase Capability:

- o Enforce building codes to withstand wind speeds
- o Increase communication alternatives
- o Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors.
- o Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines
- o Promote awareness and participation in alert systems
- o Provide NOAA weather radios to the public
- o Create/Enhance "mutual aid" agreements for response to all emergencies
- o Create/identify evacuation routes to be utilized during severe storm events.
- o Develop debris management plans.
- o Join "Storm-Ready" program
- Provide early warning of impending severe storm events to identified critical or essential facilities. This would include facilities such as large employments centers, schools, hospitals
- o Promote emergency power supplies to private property.
- o Improve, expand or harden communications facilities and services
- o Recruit additional emergency personnel or use mutual aid agreements
- o Increase sheltering capabilities
- o Increase capability to respond to power outages and downed power lines.
- o Establish partnerships with utility providers through pro-active planning.
- Nature-based opportunities
 - None identified at this time to mitigate this hazard





Severe Winter Storm

SEV	ERE WINTER STORM
	Mitigation Ideas

Manipulate the Hazard:

- o None identified at this time to mitigate this hazard
- Reduce exposure and vulnerability to the hazard:
 - o Harden infrastructure such as locating utilities underground where appropriate.
 - o Trimming trees back from power lines
 - o Designate snow routes and strengthen critical road sections and bridges.
 - o Provide backup power sources at vital critical facilities.

Increase Capability:

- o Support programs that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc.
- o Establish and enforce building codes that require all roofs to withstand snow loads
- o Increase communication alternatives
- o Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors.
- o Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines
- o Provide weather radios to vulnerable populations
- o Enhance public awareness campaigns to address those issues of alert and warning and actions to take during severe weather events.
- o Utilize the best available technology to enhance the warning systems for all severe weather events
- Coordinate severe weather warning capabilities and the dissemination of warning amongst those agencies within the planning are with the highest degree of capability.
- o Encourage local ordinances for planting tree near lines and join Tree City USA.
- o Increase tree management programs.
- o Join "Storm-Ready"
- o Retrofit critical structures and promote hazard resistant construction
- o Retrofit above-ground utilities to underground facilities if appropriate
- o Create a salt reserve or research alternates to stretch salt reserve.
- o Ensure accessibility to hospitals.
- o Provide better debris logistics and removal.
- o Provide better communication systems and back-up communication systems to inform public of hazards and to communicate during the hazard event.
- Nature-based opportunities
 - None identified at this time to mitigate this hazard





Wildfire

Wildfire

Mitigation Ideas

Manipulate the Hazard:

- o Clear potential fuels on property such as dry overgrown underbrush and diseased trees
- Reduce exposure and vulnerability to the hazard:
 - o Create and maintain defensible space around structures and infrastructure
 - o Locate outside of hazard area
 - o Create and maintain defensible space around structures and infrastructure and provide water on site
 - o Use fire-resistant building materials
 - o Use fire-resistant plantings in buffer areas of high wildfire threat

• Increase Capability:

- o Support Firewise USA community initiatives
- o Create/establish stored water supplies to be utilized for firefighting
- o Identify fire response and alternative evacuation routes and establish where needed
- o Seek alternative water supplies
- o Establish/maintain mutual aid agreements between fire service agencies
- o Develop, adopt, and implement integrated plans for mitigating wildfire impacts in wildland areas bordering on development
- o Consider the probable impacts of climate change on the risk associated with the wildfire hazard in future land use decisions
- Nature-based opportunities
 - o Manage invasive species (e.g., Hemlock Wooly Adelgid, Emerald Ash Borer) that are susceptible to increased wildfire risk
 - o Incorporate nature-based wildfire risk reduction buffers into existing ecosystem-friendly land uses (e.g., green space, trails, or community parklands)
 - o Implement and fund ecological thinning and prescribed fire and cultural fire and, where appropriate, manage wildfire for resource benefit





Rockland County Hazard Mitigation Plan | Identified Problems and Vulnerabilities

This document provides a summary of risk assessment results, critical facility exposure, input from your community, and feedback from the public survey. Please use this to help identify mitigation actions to include in the 2024 Hazard Mitigation Plan. If you have any questions, please reach out to your assigned Tetra Tech planner.

Click on your municipality's name from the list below to take to details for your community.

_	 Rockland County/Countywide/Multiple Municipalities 	\rightarrow	Nyack (V)
	 Airmont (V) 	\rightarrow	Orangetown (T)
	 Chestnut Ridge (V) 	\rightarrow	Piermont (V)
_	 Clarkstown (T) 	\rightarrow	Pomona (V)
_	Grand View-on-Hudson (V)	\rightarrow	Ramapo (T)
_	→ Haverstraw (T)	\rightarrow	Sloatsburg (V)
	> Haverstraw (V)	\rightarrow	Spring Valley (V)
	→ Hillburn (V)	\rightarrow	Stony Point (T)
	→ Kaser (V)	\rightarrow	Suffern (V)
	> Montebello (V)	\rightarrow	Upper Nyack (V)
	New Hempstead (V)	\rightarrow	Wesley Hills (V)
_	> New Square (V)	\rightarrow	West Haverstraw (V)



Rockland County/Countywide/Multiple Municipalities

Hazards

The below table shows the number of buildings in the 1% SFHA and the percent total of buildings in the SFHA:

Municipality	Buildings in the SFHA	Percent of Total Bldgs in the SFHA
Airmont, Village of	25	0.6%
Chestnut Ridge, Village of	20	0.5%
Clarkstown, Town of	270	0.8%
Grand View on Hudson, Village of	7	3.2%
Haverstraw, Town of	34	0.7%
Haverstraw, Village of	8	0.4%
Hillburn, Village of	6	1.2%
Kaser, Village of	1	0.5%
Montebello, Village of	97	4.8%
New Hempstead, Village of	22	1.1%
New Square, Village of	4	0.9%
Nyack, Village of	2	0.1%
Orangetown, Town of	156	0.8%
Piermont, Village of	97	11.5%
Pomona, Village of	17	1.2%
Ramapo, Town of	74	0.8%
Sloatsburg, Village of	54	3.0%
South Nyack, Village of	2	0.2%
Spring Valley, Village of	92	2.7%
Stony Point, Town of	256	2.9%
Suffern, Village of	184	5.9%
Upper Nyack, Village of	1	0.1%
Wesley Hills, Village of	3	0.1%
West Haverstraw, Village of	16	0.5%
Rockland County (Total)	1,448	1.3%

The below table shows the number of critical facilities and community lifelines in the 1% SFHA:

Municipality	Critical Facilities in SFHA	Community Lifelines in SFHA
Airmont, Village of	8	8
Chestnut Ridge, Village of	1	1
Clarkstown, Town of	17	14

Rockland County Hazard Mitigation Plan | 2024 Update Page 2





Hazard Mitigation Plan 2024 Update | Rockland County Problem Statements

Municipality	Critical Facilities in SFHA	Community Lifelines in SFHA	
Grand View on Hudson, Village of	0	0	
Haverstraw, Town of	4	4	
Haverstraw, Village of	0	0	
Hillburn, Village of	2	2	
Kaser, Village of	0	0	
Montebello, Village of	11	11	
New Hempstead, Village of	0	0	
New Square, Village of	0	0	
Nyack, Village of	1	0	
Orangetown, Town of	3	3	
Piermont, Village of	5	3	
Pomona, Village of	0	0	
Ramapo, Town of	10	10	
Sloatsburg, Village of	6	5	
South Nyack, Village of	0	0	
Spring Valley, Village of	6	3	
Stony Point, Town of	9	6	
Suffern, Village of	6	6	
Upper Nyack, Village of	0	0	
Wesley Hills, Village of	3	3	
West Haverstraw, Village of	3	3	
Rockland County (Total)	95	82	

The table below provides the number of policies (NFIP), number of repetitive loss properties, total number of losses, and total claims paid, as reported by FEMA, as of September 2023.

Municipality	Number of NFIP Policies	Number of Repetitive Loss Properties	Number of Severe Repetitive Loss Properties	Number of Claims	Total Paid Claims (\$)
Airmont, Village of	2	0	0	2	\$17,742
Chestnut Ridge, Village of	17	1	0	13	\$184,281
Clarkstown, Town of	322	83	16	941	\$9,346,749
Grand View on Hudson, Village of	20	3	1	46	\$1,296,282
Haverstraw, Town of	17	4	0	55	\$390,221
Haverstraw, Village of	13	0	0	7	\$7,768
Hillburn, Village of	3	1	1	33	\$1,222,574
Kaser, Village of	2	0	0	0	\$0
Montebello, Village of	35	6	0	55	\$1,404,227





Hazard Mitigation Plan 2024 Update | Rockland County Problem Statements

Municipality	Number of NFIP Policies	Number of Repetitive Loss Properties	Number of Severe Repetitive Loss Properties	Number of Claims	Total Paid Claims (\$)
New Hempstead, Village of	9	1	0	6	\$44,138
New Square, Village of	22	1	0	9	\$27,452
Nyack, Village of	115	7	2	85	\$2,497,954
Orangetown, Town of	97	28	5	362	\$5,668,545
Piermont, Village of	14	12	3	131	\$4,725,881
Pomona, Village of	44	3	0	29	\$97,455
Ramapo, Town of	25	40	0	422	\$1,972,984
Sloatsburg, Village of	10	7	1	58	\$595,914
South Nyack, Village of	29	2	1	27	\$559,165
Spring Valley, Village of	56	25	4	254	\$1,469,991
Stony Point, Town of	62	4	0	97	\$3,170,230
Suffern, Village of	13	26	3	432	\$4,914,588
Upper Nyack, Village of	12	0	1	13	\$227,317
Wesley Hills, Village of	23	0	0	7	\$90,283
West Haverstraw, Village of	35	0	0	29	\$3,917,935
Rockland County (Total)	962	254	38	3,113	\$43,849,675

Critical Facilities and Community Lifelines

Critical facilities located in hazard areas (owned/operated by Rockland County):

Facility Name	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Dam Inundation	Flood (1% SFHA)	Earthquake	Landslide	Wildfire
					1 E E 1	1.1.1		X
			Safety and Security					x

Problem Area Input/Potential Actions

The following were identified by the municipalities where the County may be involved in addressing:

Problem Type:	Name of Location:	Describe the Location:	Describe the problem:	Responsible Organization	Affect Lifeline or Critical Facility?
Flooding – High tide/nuisance	From boarder with Piermont to	High Tides,	Piermont Fire Department,		From boarder with Piermont to
flooding along roadway	Tappan Zee Bridge	storms	County of Rockland,	по	Tappan Zee Bridge

Rockland County Hazard Mitigation Plan | 2024 Update Page 4





Stakeholder Survey Feedback

The information provided below is feedback we received from the stakeholder survey. What is shown below was taken directly from the survey results.

- What support organizations feel they need from the County:
 - None identified as of 12/12/2023
- Projects/programs organizations would like to complete:
 - None identified as of 12/12/2023

Neighboring Community Survey Feedback

The information provided below is feedback we received from the neighboring community survey. What is shown below was taken directly from the survey results.

- Enhanced communications regarding specific planning and projects.
- Rockland County and Bergen County Planning and Engineering meeting periodically.
- Attend planning & response meetings.

Public Survey Feedback

The information provided below is feedback we received from the public survey. What is shown below was taken directly from the survey results.

- 60 Depew is now 6' below neighboring properties and very prone to Nyack Brook flooding; cutting a bypass to storm drain exitant on Depew eastbound toward Broadway would solve it and also reduce risk to Nyack Brook downstream flooding additional properties
- Along the Hudson River community's.
- Ramapo River areas.
- Beach Rd/River Rd/Grassy Point area along with the Stony Point WWTP and related infrastructure
- Bobby Lane in West Nyack has CONSTANT flooding.
- Chemical companies in Blauvelt need to be secured





Hazard Mitigation Plan 2024 Update | Rockland County Problem Statements

- Clean Storm drains regularly. Clean streets from leaves and other debris. Check electrical wires regularly, and remove unused hanging wires, (electrical and communication). Willow Tree Road and surrounding streets.
- Corruption that allows elected officials to do as they dam please wen making decisions that effect other people and there livelihood
- Dated and insufficient municipal drainage. Too much asphalt parking and other areas that don't allow for water penetration. Lack of back-up power. Above ground utility lines instead of buried lines.
- Department of health building
- Drainage onto Prospect Street near NW corner with Hudson Avenue. During freezing weather, the flow freezes and thickens covering the entire width of the street, driveway to driveway, becoming hazardous. This would have been avoided had the repaying of the street included a dip or gutter along the western curb.
- Erosion of hillsides through overdevelopment. County wide problem.
- Flood prone areas along creeks and the river front in Stony Point.
- flood prone areas in Orangetown
- Flood risk highest the closer to the coast you get. Wind damage also more significant the closer to the coast you get.
- flooding
- Flooding Nyack Brook Sewer pump station
- Flooding Benson Avenue and West St. in W. Nyack
- flooding by palisades mall route 59 ongoing issue
- Flooding from Oak Hill Cemetery lack of storm drains on Sickles and Midland Avenues
- Flooding Main Street
- Flooding of highway 59 heading towards Nanuet from Nyack
- Flooding on highway 59
- Flooding, Broadway and Laveta





- Flood-prone area of Route 59 next to Palisades Center.
- grotke in spring valley and Pascack rd in spring valley chestnut ridge
- Haverstraw Village hall and community center have no back up generators both have been used in the past as shelters during storms and Heat and cold events. Riverside Avenue by the Tilcon silos, floods during heavy rain preventing emergency vehicle access to this dead end road. During severe weather it can be impassible for several hours.
- high ave / gedney are flood prone
- Hilly streets in Nyack, like Burd, Main, stretches of 4th and 5th Ave. stormwater and snow melt runs fast and furious downhill, causing extensive damage to paved street surface. These streets need to be monitored often for damage and repaved as needed to prevent accidents and further erosion. Other areas that are level, but downhill from a steep slope, never seem to dry out. I'm specially thinking of a block between the north side of St. Ann's church and Broadway where the sidewalk is always wet, so I need to walk in the roadway there.
- Hudson flooding
- Hurd Ave/Ramapo Road, Garnerville intersection routinely floods.
- In Nyack it floods down Main St., at the bottom of the hill by the library and in front of 110 N Broadway
- Loss of power is common due to wind, ice storms and storm events
- Lots of power outages all over the Nyacks
- Lower lying areas along the Hudson, especially as development is allowed "uphill"
- Main street flooding (Nyack)
- Main Street flooding, river front wastewater/sewer overflow
- Main street, Nyack, flood Route 59, West Nyack, flood
- Midland Avenue north of Old Mountain Rd especially the first 1500 feet on both sides of the street.
- near Grandview ave and Rt 202 Gas pipe lines distribution and pumping stations, storm water drainage, electrical power lines,
- No storm drains on Midland Ave north of Old Mountain Rd. Large pools of standing water appear in front yards extending into the road after even a moderate rainfall



Rockland County

Hazard Mitigation Plan 2024 Update | Rockland County Problem Statements

- Nyack has storm/hurricane flood risk in the several blocks closest to the Hudson River. Wind damage from increasing storm strength is highest in the same area but significant throughout the costal region.
- Nyack is prone to flooding, especially where I live on the bottom of High Ave. Heavy rains bring waves of water down the hill.
- Nyack sewer pump station fails during storms. Nyack Village hall needs a backup generator installed permanently on the roof instead of one set up on the street.
- Nyack street flooding
- On Lime Kiln Rd at the corner of Rt 306 in Wesley Hills, there are signs which state that the surrounding woods are a protected drinking water supply. Having such signs posted may increase the risk of that water supply being targeted by terrorists, especially since Wesley Hills has a large Orthodox Jewish community. Thus, I would suggest removing those signs and possibly fencing off the area of the water supply.
- over building and not properly doing studies on how it affects the area not just traffic studies
- over crowding and building
- Overdevelopment. Roads are now always congested and we are a transportation desert with no practical and dependable public transportation options.
- overflowing sewers in heavy rain, Lexow Ave between Midland and Broadway.
- Overhead powerlines very vulnerable to storm and ice damage as well as proximity to trees and tree branches. Homeowners should be held accountable for trees near powerlines and be forced to maintain them in addition to utility company pruning.
- Palisades Parkway, has had incidents of trees falling on the parkway and causing closures/accidents. There has also been flooding on the parkway around the exits leading to Stony Point in 2023.
- Planning board approval for a carport at 7 Berachah Ave on. 45* slope in a location directly behind my residence at 9 Beracaha. The lack of adherence to the established planning and zoning codes to allow this structure on such a steep slope is dangerous and irresponsible by the municipality.
- Power grid vulnerabilities are not being taken nearly seriously enough
- Power grid vulnerabilities are not being taken nearly seriously enough
- Power lines are usually very exposed to the weather variants, and because of that might end up being disrupted during storms.





- Power lines that are susceptible to wind damage around the intersection of 304 and in Germonds Road in New City, NY. Also in West Nyack, closer to the area of the West Nyack Fired Department, there has been flooding.
- Reservoir Congers rd New City Hackensack River damn old mill road Palisades parkway exits 9-14 southbound northbound
- riverfront communities
- Route 303, Route 59, and the NYS Thruway in the vicinity of the Palisades Mall are highly flood prone.
- Route 59 by mall and 59 underpass, Gateway to Nyack
- Route 59 by the Palisades Mall Nyack, NY
- Route 59 by the Palisades Mall. It floods every time there is a heavy downpour.
- Route 59 flooding
- Route 59 in West Nyack, Railroad throughout the county,
- route 59 West Nyack
- Route 9W is vulnerable to downed trees during high wind events.
- Rt 59 by Palisade Mall. Rt 59 and Pascack Rd. Palisades Parkway north of exit 13
- Rt 59 by palisades mall
- Rt 59, NYS Thruway
- Rte 59 flooding in W Nyack, water retention on PIP north of exit 11, flooding PIP exit 15
- Rte 59 near Palisades Center mall
- Sewage overflows at pump stations in Nyack. Facilities that work with or store hazardous materials in flood prone areas throughout Rockland County. Flooding of basements throughout Nyack is a major concern.
- Shoreline of Hudson River, Sewer pump station near Marina, storm water (ms4 system throughout the downtown of Nyack, infiltration in sewer system throughout the downtown
- storm surge along the Hudson



Rockland County

- Stream bank erosion due to storm water runoff on private property. Stormwater runoff is a Municipal service, but affects and has damaged private property. N. Midland Ave., and old Mountain Road
- STREAM DEBRIS CLEARING VALLEY COTTAGE
- the cargo train line (hazardous material); rte 59 by the mall (flooding) the reservoir (drought/flood)
- The entire freight railway along the West Bank of the Hudson River throughout Rockland County.
- The Hudson riverfront from Sparkill (south) to Stony Point needs flood protection.
- The low-lying/flood-prone areas of Nyack next to the river (Gedney St) as well as Nyack creek-adjacent properties during severe storms (Main St.).
- The recent increase of rainfall seems to overwhelm the storm runoff system on Piermont Ave. in Nyack. The riverside houses get backflow from toilets and other places that suggest it's coming from the municipal system. Storm water has nearly overpowered our personal back flow preventer on a few occasions.
- The village slopes steeply to the river and streets can become torrents...
- There are areas that CONSTANTLY flood creating extremely hazardous conditions and they have been like this for years. 2 examples: Route 59 south side just west of Palisades mall and Saddle River Road between Grove Street and Route 59.
- There are trees that may be standing but aren't really alive anymore and that can pose a problem during a storm if that tree gets pushed over through strong winds
- There is too much over building and it's getting to cramp around here. Nyack appears to be turning into the city of Nyack and losing the feeling of a village. Try parking at the library on evening or weekend. We have to circle around and around each time. To attend the winter sale at the Nyack Center last week it took about 30 minutes to find a parking spot. It's getting ridiculous. So many businesses rely on street parking also including the churches, Hook Mt Boat Club and Nyack Yacht Club. There is soooo much push for Nyack Tourism and with the building of the new bridge with the new bike path across and all the new apartment buildings...parking is over the limit of capacity. People won't want to come if they can't even park anywhere. Not even taking into the account of people that own homes here and would like to have people over their homes and park nearby. Please see the copy and paste from the government website as a reference:

https://pubmed.ncbi.nlm.nih.gov/16844639/#:~:text=Mankind%20is%20becoming%20ever%20more,just%20a%20matter%20of%20time. "Mankind is becoming ever more susceptible to natural disasters, largely as a consequence of population growth and globalization. It is likely that in the future, we will experience several disasters per year that kill more than 10,000 people. A calamity with a million casualties is just a matter of time."





- Town Hall, County Office Buildings etc
- Town of stony point is useless. Between the leadership who tells everyone he doesn't control the department to building & stormwater departments not doing thing when reported which cause us tax payers money to correct and puts residences at risk.
- traffic lights, fuel stations, sewer pump stations
- Trees along the 9 W and Palisades parkway need to be cut backed.
- trees falling on electric lines causing a loss of power. Wesley hills willow tree /forshay area
- Utility lines are overhead and that makes them very vulnerable to storms etc. These should be underground.
- Village of Nyack sewers overflow into the river when it rains
- Wayne avenue- lack of storm drains and sewers. lowland park in stony point and beach road and grassy point road.
- We have a stream near us that gets very full when it rains. Also the water flows down to our yard when it rains a lot. My backyard frequently has pools of water when it rains a lot.
- We seem to have frequent power outages between route 306, McNamara Rd., Grandview and Pomona Road.
- Weakened older trees
- west shore towers 101 Gedney street
- Wind damage, including tree damage. Had a wind-shear rip off the top of a massive old oak tree. 6 Steinway Court, Suffern, NY.
- Winter power outages on Old Mountain Rd North (between Broadway and Midland) are COMMONPLACE, and I cannot afford a generator.



Airmont (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			N	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Airmont, Village of	48	7	3	1	3	12

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of	Tetel Bail Claim	Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
Airmont, Village of	2	\$17,742	0	0	0	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood
	1			10. 10 March	10
	1				1
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Rockland County Hazard Mitigation Plan | 2024 Update Page 12





Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback





Chestnut Ridge (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Chestnut Ridge, Village of	46	7	6	2	5	8

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
widincipancy	Claims	rotar Falu claims	rioperties	Propercies	Loss Properties	Loss Properties
Chestnut Ridge, Village of	13	\$184,281	1	0	0	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood
					1

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback





Clarkstown (T)

Hazards

Flood

Population and buildings in the 1% SFHA

			/V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Clarkstown, Town of	547	112	25	28	54	152

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Clarkstown, Town of	941	\$9,346,749	83	19	16	0

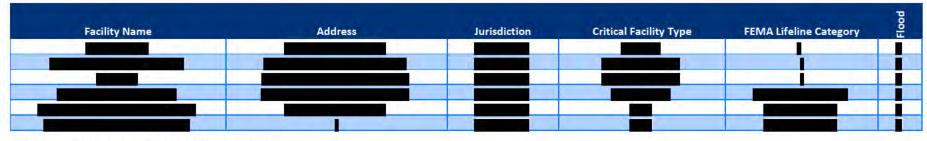
Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood
			0		







Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

- Rt 59 by Palisade Mall. Rt 59 and Pascack Rd. Palisades Parkway north of exit 13
- Route 303, Route 59, and the NYS Thruway in the vicinity of the Palisades Mall are highly flood prone.
- Route 59 flooding
- Power lines that are susceptible to wind damage around the intersection of 304 and in Germonds Road in New City, NY. Also in West Nyack, closer to the area of the West Nyack Fired Department, there has been flooding.
- Town Hall, County Office Buildings etc
- flooding by palisades mall route 59 ongoing issue
- Bobby Lane in West Nyack has CONSTANT flooding.
- Flooding Benson Avenue and West St. in W. Nyack
- Main street, Nyack, flood Route 59, West Nyack, flood
- Reservoir Congers rd New City Hackensack River damn old mill road Palisades parkway exits 9-14 southbound northbound
- Route 9W is vulnerable to downed trees during high wind events.

Rockland County Hazard Mitigation Plan | 2024 Update Page 16

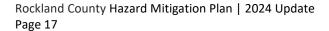




- STREAM DEBRIS CLEARING VALLEY COTTAGE
- the cargo train line (hazardous material); rte 59 by the mall (flooding) the reservoir (drought/flood)

TETRA TECH

ΤŁ





Grand View-on-Hudson (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 19	%		Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Grand View on Hudson, Village of	6	1	0	0	0	0

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
Grand View on Hudson, Village of	46	\$1,296,282	3	1	1	0

Critical Facilities and Community Lifelines

The Village does not have critical facilities or community lifelines located in the 1% SFHA.

Problem Area Input/Potential Actions

• Flooding – High tide/nuisance flooding along roadway (River Road), from border with Piermont and Tappen Zee Bridge

Public Survey Feedback





Haverstraw (T)

Hazards

Flood

Population and buildings in the 1% SFHA

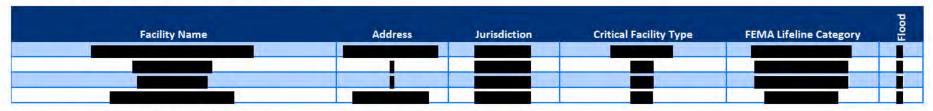
			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Haverstraw, Town of	18	3	1	1	1	6

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Haverstraw, Town of	55	\$390,221	4	0	0	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.



Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.





Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

• Department of health building





Haverstraw (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Haverstraw, Village of	6	0	0	1	0	2

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
Haverstraw, Village of	7	\$7,768	0	0	0	0

Critical Facilities and Community Lifelines

The Village does not have critical facilities or community lifelines located in the 1% SFHA.

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

 Haverstraw Village hall and community center have no back up generators both have been used in the past as shelters during storms and Heat and cold events. Riverside Avenue by the Tilcon silos, floods during heavy rain preventing emergency vehicle access to this dead end road. During severe weather it can be impassible for several hours.





Hillburn (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Hillburn, Village of	15	2	1	0	1	4

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
Hillburn, Village of	33	\$1,222,574	1	1	1	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Problem Area Input/Potential Actions

• Flooding, Brush Fires, High Wind, Rockslides, Railroad/Thruway Corridor running through Village.

Public Survey Feedback

None identified as of December 12th

Rockland County Hazard Mitigation Plan | 2024 Update Page 22





Kaser (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Kaser, Village of	33	1	8	8	0	7

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Kaser, Village of	0	\$0	0	0	0	0

Critical Facilities and Community Lifelines

The Village does not have critical facilities or community lifelines located in the 1% SFHA.

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback





Montebello (V)

Hazards

Flood

Population and buildings in the 1% SFHA

		Vulnerable Populations							
	Total Number of People in 1%	1% Non-English				Below ALICE			
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold			
Montebello, Village of	212	25	8	7	13	26			

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
widineipancy	Claims	rotarraid claims	riopercies	riopercies	Loss Tropercies	Loss Hoperties
Montebello, Village of	55	\$1,404,227	6	1	0	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood
			· · · · · · · · · · · · · · · · · · ·		

Rockland County Hazard Mitigation Plan | 2024 Update Page 24





Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback



New Hempstead (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%		Non-English			Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
New Hempstead, Village of	28	4	1	0	1	2

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
New Hempstead, Village of	6	\$44,138	1	0	0	0

Critical Facilities and Community Lifelines

The Village does not have critical facilities or community lifelines located in the 1% SFHA.

Problem Area Input/Potential Actions

 Roadway flooding along Greenridge Way, Sandybrook Dr., Pennington Way, Union Rd., Brockton Rd., Asher Dr., New Hempstead Rd., and Summit Pk. Rd.

Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

• We have a stream near us that gets very full when it rains. Also the water flows down to our yard when it rains a lot. My backyard frequently has pools of water when it rains a lot.





New Square (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%		Non-English			Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
New Square, Village of	94	2	15	16	3	15

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
New Square, Village of	9	\$27,452	1	0	0	0

Critical Facilities and Community Lifelines

The Village does not have critical facilities or community lifelines located in the 1% SFHA.

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback





Nyack (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1	%	Non-English			Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Nyack, Village of	8	1	0	0	1	4

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Nyack, Village of	85	\$2,497,954	7	2	2	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Problem Area Input/Potential Actions

- Driveway impassable during flood events, limited access in and out of plant at the Nyack Water Treatment Plant
- Town of Orangetown sewer pump station overflows during rain events, discharging waste across parking lot into the Hudson River at the Nyack Sewer Pump Station, marina parking lot
- high tide and storm surge cover parking lot and impact Clermont Condo parking areas at the Nyack Marina





- during hard rain, water spouts from Nyack Brook up through storm drains in parking lot by Panda Garden and runs down Main St like a river at the Panda Garden parking lot into main st
- stormwater outfalls into Hudson River on private property are jammed up with river sediments blocking outflow during rain events at the waterfront apartments
- Connections, especially from north by Midland, overwhelm the brook during heavy rains at the Nyack Brook and connected stormwater pipes
- storm sewer running from High Ave to Nyack Brook inadequate, sinkhole at 24 Catherine repaired, Mill St washed out and repaired,.
- Hurricane Ida damaged culverts, causing a sinkhole that Village is still working on fixing
- lack of backup generator for heating/cooling in emergency at the Nyack Senior Center

Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

- 60 Depew is now 6' below neighboring properties and very prone to Nyack Brook flooding; cutting a bypass to storm drain exitant on Depew eastbound toward Broadway would solve it and also reduce risk to Nyack Brook downstream flooding additional properties
- Dated and insufficient municipal drainage. Too much asphalt parking and other areas that don't allow for water penetration. Lack of back-up power. Above ground utility lines instead of buried lines.
- Drainage onto Prospect Street near NW corner with Hudson Avenue. During freezing weather, the flow freezes and thickens covering the entire width of the street, driveway to driveway, becoming hazardous. This would have been avoided had the repaying of the street included a dip or gutter along the western curb.
- Flooding Nyack Brook Sewer pump station
- Flooding from Oak Hill Cemetery lack of storm drains on Sickles and Midland avenues
- Flooding Main Street
- Flooding on highway 59
- Flooding, Broadway and Laveta





- high ave / gedney are flood prone
- Hilly streets in Nyack, like Burd, Main, stretches of 4th and 5th Ave. stormwater and snow melt runs fast and furious downhill, causing extensive damage to paved street surface. These streets need to be monitored often for damage and repaved as needed to prevent accidents and further erosion. Other areas that are level, but downhill from a steep slope, never seem to dry out. I'm specially thinking of a block between the north side of St. Ann's church and Broadway where the sidewalk is always wet, so I need to walk in the roadway there.
- Main street flooding (Nyack)
- Main Street flooding, river front wastewater/sewer overflow
- Nyack has storm/hurricane flood risk in the several blocks closest to the Hudson River. Wind damage from increasing storm strength is highest in the same area but significant throughout the costal region.
- Nyack is prone to flooding, especially where I live on the bottom of High Ave. Heavy rains bring waves of water down the hill.
- over building and not properly doing studies on how it affects the area not just traffic studies
- Route 59 by the Palisades Mall. It floods every time there is a heavy downpour.
- Sewage overflows at pump stations in Nyack. Facilities that work with or store hazardous materials in flood prone areas throughout Rockland County. Flooding of basements throughout Nyack is a major concern.
- Shoreline of Hudson River, Sewer pump station near Marina, storm water (ms4 system throughout the downtown of Nyack, infiltration in sewer system throughout the downtown
- storm surge along the Hudson
- Stream bank erosion due to storm water runoff on private property. Stormwater runoff is a Municipal service, but affects and has damaged private property. N. Midland Ave., and old Mountain Road
- The low-lying/flood-prone areas of Nyack next to the river (Gedney St) as well as Nyack creek-adjacent properties during severe storms (Main St.).
- The recent increase of rainfall seems to overwhelm the storm runoff system on Piermont Ave. in Nyack. The riverside houses get backflow from toilets and other places that suggest it's coming from the municipal system. Storm water has nearly overpowered our personal back flow preventer on a few occasions.
- The village slopes steeply to the river and streets can become torrents...



Rockland County

Hazard Mitigation Plan 2024 Update | Rockland County Problem Statements

- There is too much over building and it's getting to cramp around here. Nyack appears to be turning into the city of Nyack and losing the feeling of a village. Try parking at the library on evening or weekend. We have to circle around and around each time. To attend the winter sale at the Nyack Center last week it took about 30 minutes to find a parking spot. It's getting ridiculous. So many businesses rely on street parking also including the churches, Hook Mt Boat Club and Nyack Yacht Club. There is soooo much push for Nyack Tourism and with the building of the new bridge with the new bike path across and all the new apartment buildings...parking is over the limit of capacity. People won't want to come if they can't even park anywhere. Not even taking into the account of people that own homes here and would like to have people over their homes and park nearby. Please see the copy and paste from the government website as a reference: https://pubmed.ncbi.nlm.nih.gov/16844639/#:~:text=Mankind%20is%20becoming%20ever%20more,just%20a%20matter%20of%20time.
 "Mankind is becoming ever more susceptible to natural disasters, largely as a consequence of population growth and globalization. It is likely that in the future, we will experience several disasters per year that kill more than 10,000 people. A calamity with a million casualties is just a matter of time."
- Village of Nyack sewers overflow into the river when it rains
- west shore towers 101 Gedney street





Orangetown (T)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%	Non-English			Below ALICE	
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Orangetown, Town of	197	37	9	5	19	68

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Orangetown, Town of	362	\$5,668,545	28	6	5	1

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood
	-				1

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.





Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

- 60 Depew is now 6' below neighboring properties and very prone to Nyack Brook flooding; cutting a bypass to storm drain exitant on Depew eastbound toward Broadway would solve it and also reduce risk to Nyack Brook downstream flooding additional properties
- flood prone areas in Orangetown
- grotke in spring valley and Pascack rd in spring valley chestnut ridge
- Nyack sewer pump station fails during storms. Nyack Village hall needs a backup generator installed permanently on the roof instead of one set up on the street.
- Planning board approval for a carport at 7 Berachah Ave on. 45* slope in a location directly behind my residence at 9 Beracaha. The lack of adherence to the established planning and zoning codes to allow this structure on such a steep slope is dangerous and irresponsible by the municipality.
- The recent increase of rainfall seems to overwhelm the storm runoff system on Piermont Ave. in Nyack. The riverside houses get backflow from toilets and other places that suggest it's coming from the municipal system. Storm water has nearly overpowered our personal back flow preventer on a few occasions.
- The Hudson riverfront from Sparkill (south) to Stony Point needs flood protection.
- Trees along the 9 W and Palisades parkway need to be cut backed.





Piermont (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%		Non-English			Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Piermont, Village of	278	59	15	15	19	133

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Piermont, Village of	131	\$4,725,881	12	5	3	0

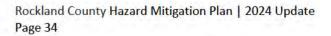
Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.



Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.







Public Survey Feedback







Pomona (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
Municipality	Total Number of People in 1%			Non-English		Below ALICE
	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Ramapo, Town of	298	28	43	7	14	115

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Pomona, Village of	29	\$97,455	2	0	0	0

Critical Facilities and Community Lifelines

The Village does not have critical facilities or community lifelines located in the 1% SFHA.

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback





Ramapo (T)

Hazards

Flood

Population and buildings in the 1% SFHA

			/V	ulnerable Populations		
Municipality	Total Number of People in 1%			Non-English		Below ALICE
	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Ramapo, Town of	298	28	43	7	14	115

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Ramapo, Town of	422	\$1,972,984	40	0	0	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood
				1
		A CONTRACTOR OF		
	Address	Address Jurisdiction Address Jurisdiction <td>Address Jurisdiction Critical Facility Type Image: Address Image: Address Image: Address Image: Addres Image: Addres</td> <td>Address Jurisdiction Critical Facility Type FEMA Lifeline Category Address Jurisdiction Critical Facility Type FEMA Lifeline Category Address Address Address Address</td>	Address Jurisdiction Critical Facility Type Image: Address Image: Address Image: Address Image: Addres Image: Addres	Address Jurisdiction Critical Facility Type FEMA Lifeline Category Address Jurisdiction Critical Facility Type FEMA Lifeline Category Address Address Address Address

Rockland County Hazard Mitigation Plan | 2024 Update Page 37





Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback





Sloatsburg (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
Municipality	Total Number of People in 1%			Non-English		Below ALICE
	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Sloatsburg, Village of	84	14	5	1	10	39

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
Sloatsburg, Village of	58	\$595,914	7	2	1	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	-
				1 × 1	
	()				
	1				
	-				T





Problem Area Input/Potential Actions

- Lake Sebago Dam
- Flooding at Nacoma Brook properties abutting the Brook

Public Survey Feedback





Spring Valley (V)

Hazards

Flood

Population and buildings in the 1% SFHA

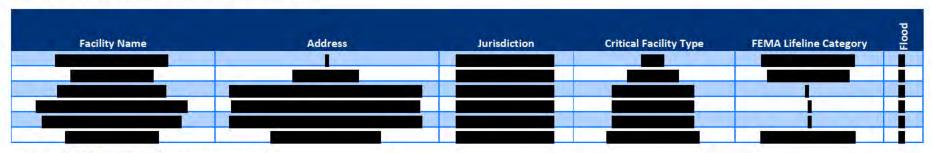
			V	ulnerable Populations		
Municipality	Total Number of People in 1%			Non-English		Below ALICE
	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Spring Valley, Village of	588	56	66	173	49	239

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
Spring Valley, Village of	254	\$1,469,991	25	4	4	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.



Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

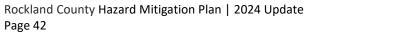
Rockland County Hazard Mitigation Plan | 2024 Update Page 41





Public Survey Feedback

Page 42







Stony Point (T)

Hazards

Flood

Population and buildings in the 1% SFHA

			N	ulnerable Populations		
Municipality	Total Number of People in 1%			Non-English		Below ALICE
	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Stony Point, Town of	378	67	15	6	41	111

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
wanterpancy	claimo	Total Fala claims	Troperties	rioperties	Loss Froperties	Less Hopernes
Stony Point, Town of	97	\$3,170,230	4	2	0	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood
					1
				1 1	1
					1
				1	

Rockland County Hazard Mitigation Plan | 2024 Update Page 43





Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	
	Address			TEMA Enemie Category	

Problem Area Input/Potential Actions

- Lack of Backup Power at a Critical Facility at the Community Center
- Lack of Backup Power at a Critical Facility at the Parks Garage
- Lack of Backup Power at a Critical Facility at the Town Hall
- Wildfire at the CSX Railroad Line
- Evacuation Route Vulnerable to Hazard at the Palisades Parkway
- Lack of Backup Power at a Critical Facility at the Highway Garage
- Flood Heavy Rain Floods Basement/First Floor at 3 Tyler Pl, Stony Point, NY, 10980, USA
- Flood Heavy Rain Floods Basement/First Floor at 12 Lighthouse Ct.
- Flood Heavy Rain Floods Basement/First Floor at 3 Delaware Ct
- Flood Heavy Rain Floods Basement/First Floor at 2 Rosetown road
- Flood Heavy Rain Floods Basement/First Floor at 259 Route 210
- Flood Heavy Rain Floods Basement/First Floor at 290 Route 210
- Flood Heavy Rain Floods Basement/First Floor at 33 Walter Drive
- Flood Heavy Rain Floods Basement/First Floor at 300 Route 210
- Flooding River/Creek Floods Structure at Beach Road
- Flooding Stormwater Infrastructure Insufficient at Foxwood Drive
- Flooding Stormwater Infrastructure Insufficient at 40 Lowland Hill Rd, Stony Point, NY 10980



Rockland County

- Flooding Stormwater Infrastructure Insufficient at Holt Drive
- Flooding Road Closes or Washes Out at Beach Road
- Flooding Road Closes or Washes Out at Lowland Hill Park
- Flooding Road Closes or Washes Out at Route 210
- Flooding Road Closes or Washes Out at North portion of Route 9W/202
- Flood High tide/nuisance flood along roadway at Beach Road
- Flooding Flooding at Bridge at Lowland Hill Road
- Trees/Branches on Wires throughout the Town

Public Survey Feedback

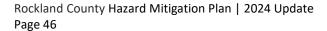
The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

- Wayne avenue- lack of storm drains and sewers. lowland park in stony point and beach road and grassy point road.
- Town of stony point is useless. Between the leadership who tells everyone he doesn't control the department to building & stormwater departments not doing thing when reported which cause us tax payers money to correct and puts residences at risk.
- riverfront communities
- Corruption that allows elected officials to do as they dam please wen making decisions that effect other people and there livelihood
- Beach Rd/River Rd/Grassy Point area along with the Stony Point WWTP and related infrastructure
- Flood prone areas along creeks and the river front in Stony Point.
- Rte 59 flooding in W Nyack, water retention on PIP north of exit 11, flooding PIP exit 15
- The entire freight railway along the West Bank of the Hudson River throughout Rockland County.
- traffic lights, fuel stations, sewer pump stations





Hazard Mitigation Plan 2024 Update | Rockland County Problem Statements







Suffern (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Suffern, Village of	602	122	25	45	58	288

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

Municipality	Number of Claims	Total Paid Claims	Number of NFIP Repetitive Loss Properties	Number of FMA Repetitive Loss Properties	Number of NFIP Severe Repetitive Loss Properties	Number of FMA Severe Repetitive Loss Properties
internetpenty	Claimb	Total Fala claims	rioperties	rioperties	Loss Froperties	Less Hoperties
Suffern, Village of	432	\$4,914,588	26	4	3	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	
			-		

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Rockland County Hazard Mitigation Plan | 2024 Update Page 47





Hazard Mitigation Plan 2024 Update | Rockland County Problem Statements

Public Survey Feedback

• None identified as of December 12th





Upper Nyack (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Upper Nyack, Village of	2	0	0	0	0	0

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
Upper Nyack, Village of	13	\$227,317	0	0	1	1

Critical Facilities and Community Lifelines

The Village does not have critical facilities or community lifelines located in the 1% SFHA.

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.

Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

- No storm drains on Midland Ave north of Old Mountain Rd. Large pools of standing water appear in front yards extending into the road after even a moderate rainfall
- overflowing sewers in heavy rain, Lexow Ave between Midland and Broadway.





- Weakened older trees
- Winter power outages on Old Mountain Rd North (between Broadway and Midland) are COMMONPLACE, and I cannot afford a generator.
- Erosion of hillsides through overdevelopment. County wide problem.
- Lots of power outages all over the Nyacks
- Lower lying areas along the Hudson, especially as development is allowed "uphill"
- Midland Avenue north of Old Mountain Rd especially the first 1500 feet on both sides of the street.



Wesley Hills (V)

Hazards

Flood

Population and buildings in the 1% SFHA

			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
Wesley Hills, Village of	7	1	0	0	0	1

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
Wesley Hills, Village of	7	\$90,283	0	0	0	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.

Facility Name	Address	Jurisdiction	Critical Facility Type	FEMA Lifeline Category	Flood

Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.







Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

- Clean Storm drains regularly. Clean streets from leaves and other debris. Check electrical wires regularly, and remove unused hanging wires, (electrical and communication). Willow Tree Road and surrounding streets.
- I do not know
- near Grandview ave and Rt 202 Gas pipe lines distribution and pumping stations, storm water drainage, electrical power lines,
- On Lime Kiln Rd at the corner of Rt 306 in Wesley Hills, there are signs which state that the surrounding woods are a protected drinking water supply. Having such signs posted may increase the risk of that water supply being targeted by terrorists, especially since Wesley Hills has a large Orthodox Jewish community. Thus, I would suggest removing those signs and possibly fencing off the area of the water supply.
- Overhead powerlines very vulnerable to storm and ice damage as well as proximity to trees and tree branches. Homeowners should be held accountable for trees near powerlines and be forced to maintain them in addition to utility company pruning.
- power lines
- Power outages
- trees falling on electric lines causing a loss of power. Wesley hills willow tree /forshay area
- We seem to have frequent power outages between route 306, McNamara Rd., Grandview and Pomona Road.
- Wind damage, including tree damage. Had a wind-shear rip off the top of a massive old oak tree. 6 Steinway Court, Suffern, NY.





West Haverstraw (V)

Hazards

Flood

Population and buildings in the 1% SFHA

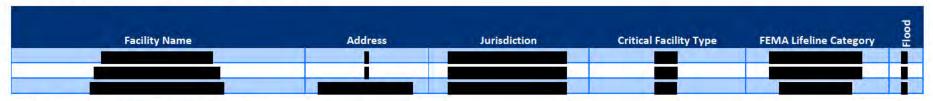
			V	ulnerable Populations		
	Total Number of People in 1%			Non-English		Below ALICE
Municipality	SFHA	Over 65	Under 5	Speaking	Disability	Threshold
West Haverstraw, Village of	28	3	2	4	2	12

NFIP Statistics - if there are RL and/or SRL properties in your community, you must identify an action to mitigate those properties

	Number of		Number of NFIP Repetitive Loss	Number of FMA Repetitive Loss	Number of NFIP Severe Repetitive	Number of FMA Severe Repetitive
Municipality	Claims	Total Paid Claims	Properties	Properties	Loss Properties	Loss Properties
West Haverstraw, Village of	29	\$3,917,935	0	0	0	0

Critical Facilities and Community Lifelines

The following critical facilities/community lifelines located in the 1% SFHA – for any facility in the 1% SFHA, you must identify an action to protect the facility to the 500-year or worst-case scenario flood.



Problem Area Input/Potential Actions

• None identified by the municipality as of December 12th.





Public Survey Feedback

The following responses were received through the public survey (as of December 12, 2023). What is shown below was taken directly from the survey results. This feedback can be used as a starting point for identifying mitigation actions.

• Hurd Ave/Ramapo Road, Garnerville intersection routinely floods.



Types of Mitigation Actions

A mitigation action is a specific action, project, activity, or process taken to reduce or eliminate long-term risk to people and property from hazards and their impacts. Implementing mitigation actions helps achieve the plan's mission and goals. The actions to reduce vulnerability to threats and hazards form the core of the plan and are a key outcome of the planning process.

The primary types of mitigation actions to reduce long-term vulnerability are:

Local Plans and Regulations (LPR)

- Structure and Infrastructure Projects (SIP)
- Natural Systems Protection (NSP)
- Education and Awareness Programs (EAP)

Mitigation Type	Description	Examples
Local Plans and Regulations	These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.	 Comprehensive plans Land use ordinances Subdivision regulations Development review Building codes and enforcement NFIP Community Rating System Capital improvement programs Open space preservation Stormwater management regulations and master plans
Structure and Infrastructure Projects	These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards. Many of these types of actions are projects eligible for funding through the FEMA Hazard Mitigation Assistance program.	 Acquisitions and elevations of structures in flood prone areas Utility undergrounding Structural retrofits Floodwalls and retaining walls Detention and retention structures Culverts Safe rooms
Natural Systems Protection	These are actions that minimize damage and losses and also preserve or restore the functions of natural systems.	 Sediment and erosion control Stream corridor restoration Forest management Conservation easements Wetland restoration and preservation
Education and Awareness Programs	These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady or Firewise Communities. Although this type of mitigation reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public is more likely to lead to direct actions.	 Radio or television spots Websites with maps and information Real estate disclosure Presentations to school groups or neighborhood organizations Mailings to residents in hazard-prone areas StormReady Firewise Communities



APPENDIX F. PLAN MAINTENANCE

This appendix includes tools and worksheets to facilitate plan maintenance and review by the Rockland County Steering Committee and Planning Partnership.

In the first year of the performance period, an online performance progress reporting system, the BAToolSM will provide representatives direct access to their mitigation initiatives to easily update the status of each project, document successes or obstacles to implementation, add or delete projects to maintain mitigation project implementation. This online program will capture information and roll all input into a report to summarize mitigation strategy progress.

The guidance worksheets are also available to assist with progress reporting. These worksheets are provided below for ease of access to the HMP Coordinator and Planning Partnership to maintain the 2024 HMP throughout its period of performance.

Describing the Action
Integration status
Has this action been worked into any other local plans or planning mechanisms?
Refer to the <u>Hazard</u> <u>Information Integration</u> <u>Worksheet</u> to fill out this section.
Aligning with the state plan Does the action align with any goals or objectives outlined in the state hazard mitigation plan?

Keeping the Plan Current

Worksheet 9: Action Monitoring Form

Use this form to help identify the status of each action in the plan. This can help you find out if you need other resources to complete it. Completed actions also give you a chance to celebrate the plan's success.

Table 1. Example of Action or Project Evaluation Matrix

Progress Report Period	
Describe the action or project.	
Who is responsible for the action?	
Project status:	Complete
	In progress, anticipated completion date:
	□ Not started
	Canceled

Progress Report Period	
Has there been any progress with this project so far?	
Are there any obstacles or challenges with this action so far?	
What steps do you need to take to complete this project?	
Other comments:	

Worksheet 10: Plan Update Evaluation Form

For this form, think about the plan as a whole. Think about what has gone well for each part and where it can improve. The plan evaluation process offers a chance to look at the planning process as a whole.

PLANNING PROCESS

Participants

Should new jurisdictions be invited to participate in future plan updates?

How have communities and agencies helped to carry out mitigation actions?

Could anything from the initial planning process be done more efficiently?

Have there been any changes in public support or priorities about hazard mitigation?

Is there anything else you would like to consider?

Public Involvement

Has the public been actively involved in the plan's implementation? How can public participation improve?

Have there been any ongoing public outreach activities for the plan?

Is there anything else you would like to consider?

RISK ASSESSMENT

Hazard History

Have there been any recent disaster events? If so, how did they affect your community?

Should the list of hazards addressed in the plan be updated? If so, which hazards should be added or removed?

Have there been any new issues with hazards in a certain area of your community?

Is there anything else you would like to consider?

New Data

Are any new data sources available (e.g., studies, reports, maps, etc.)?

Do any new critical facilities or infrastructure need to be added to the asset lists?

Have any changes in development trends occurred that could create additional risks?

Does any new development reduce risk?

Is there anything else you would like to consider?

MITIGATION STRATEGY

Capabilities

Have jurisdictions adopted new policies, plans, regulations, or reports that could support the plan?

Are there different or new education and outreach programs and resources available for mitigation activities?

Has NFIP participation changed in the participating jurisdictions?

Is there anything else you would like to consider?

Actions

Is the mitigation strategy being carried out as expected? Were the cost and timeline estimates accurate?

Are there new projects to consider?

Should existing mitigation actions be revised or removed from the plan?

Are there new funding sources to consider?

Have parts of the plan been worked into other planning mechanisms?

What challenges were there, and how can those be overcome over time?

Is there anything else you would like to consider?

APPENDIX G. CRITICAL FACILITIES

Due to the sensitive nature of this information, details of each have been redacted for the public document. A full list of critical facilities identified for the vulnerability analysis is available at the Rockland County Office of Fire and Emergency Services. To view the list, contact Christopher Jensen, Coordinator (jensenc@co.rockland.ny.us).

APPENDIX H. HIGH HAZARD POTENTIAL DAMS

This is a confidential appendix that summarizes the quantitative vulnerability assessment conducted for the dam failure hazard in Rockland County. This section contains information and details to support information provided in Section 4.3.1 (Dam Failure) which provides the information regarding dam failure in Rockland County. Due to the sensitive nature of this information, details have been redacted. Contact the HMP Coordinator, Christopher Jensen (jensenc@co.rockland.ny.us), for more information.