

APPENDIX A: PLAN ADOPTION

The Essex 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 18 (Maintaining the Hazard Mitigation Plan) for additional information on plan adoption procedures.

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





Sample Adoption Resolution

(LOCAL GOVERNMENT, INCLUDING SPECIAL DISTRICTS), (STATE)

RESOLUTION NO.

A RESOLUTION OF (LOCAL GOVERNMENT) ADOPTING THE (TITLE AND DATE OF MITIGATION PLAN).

WHEREAS the (local governing body) recognizes the threat that natural hazards pose to people and property within (local government); and

WHEREAS the (local government) has prepared a multi-hazard mitigation plan, hereby known as (title and date of mitigation plan) 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 (title and date of mitigation plan) identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in (local government) from the impacts of future hazards and disasters; and

WHEREAS adoption by the (local governing body) demonstrates its commitment to hazard mitigation and achieving the goals outlined in the (title and date of mitigation plan).

NOW THEREFORE, BE IT RESOLVED BY THE (LOCAL GOVERNMENT), (STATE), THAT:

Section 1. In accordance with (local rule for adopting resolutions), the (local governing body) adopts the (title and date of mitigation plan). While content related to (local government) may require revisions to meet the plan approval requirements, changes occurring after adoption will not require (local government) 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 ofin favor a	ndagainst, andabstaining, thisday c
Ву:	(print name)
ATTEST: By:	(print name)
APPROVED AS TO FORM: By:	(print name)





APPENDIX B: PARTICIPATION DOCUMENTATION

This appendix provides documentation to illustrate the significant efforts undertaken to support a broad and inclusive engagement of the participants during this hazard mitigation planning process.

1.1 MEETING AND WORKSHOP PARTICIPATION

Table B-1 provides a broad overview of state, county, municipal and stakeholder personnel that attended meetings and workshops throughout the Essex County HMP update planning process. All jurisdictions were encouraged to attend the kick-off meeting, risk assessment meeting, mitigation workshop and meet individually with the contract consultant. As discussed in Section 2 (Planning Process), primary and secondary points of contact were identified for each jurisdiction, but moreover, these points of contact were asked to work with their 'mitigation team' to ensure input was provided across all jurisdiction departments. Table X-22 in each jurisdictional annex (Volume II) summarizes the additional individuals that participated in each jurisdiction, as well as their method of participation. 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 Committee Guidelines which established the Steering Committee. Letters of Intent to Participate indicating municipal planning efforts are included in this appendix.





Table 0-1. Essex County Hazard Mitigation Planning Participation

Jurisdiction	Name	Title / Position	Primary Point of Contact	Alternate Point of Contact	Municipal Floodplain Administrator	Planning Partnership Kickoff Meeting	Steering Committee Kickoff Meeting	Risk Assessment Meeting	Mitigation Strategy Workshop	Steering Committee Draft Plan Meeting
Essex County	Ryan Peter	Sergeant, OEM	Х			Χ	X	Χ	Χ	Χ
Essex County	Jose Torres	OEM Coordinator/Detective				Х				
Essex County	Dorothy Landrum	OEM Coordinator				Х				
Essex County	Mark Steinberg	Detective				Х	Х			
Essex County	Matt Gifford	Essex Fire Coordinator				Χ				
Essex County	Nick Dasaro	Sergeant				Χ				
Essex County	James Simpson	EMS Coordinator				Χ	Χ			
Essex County	Denise Teague	Detective		Х		Χ	Χ	Χ	Χ	
Essex County	Armando Fontoura	Sheriff				Χ				
Essex County	Carl E Hunte	Chief Information Officer/Assistant County Administrator								Х
Essex County	Luke Ye	Systems Analyst					Х			
Essex County	Sanjeev Varghese	County Engineer/Director					Х			
Essex County	Richard Fernandez	Principal Engineer					Х			
Essex County	Frank J. Del Gaudio	Director, Department of Health & Rehabilitation					Х			
Essex County	Maya Harlow	Essex County Health Officer					Х			Х





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Jurisdiction	Name	Title / Position	Primary Point of Contact	Alternate Point of Contact	Municipal Floodplain Administrator	Planning Partnership Kickoff Meeting	Steering Committee Kickoff Meeting	Risk Assessment Meeting	Mitigation Strategy Workshop	Steering Committee Draft Plan Meeting
Belleville (T)	John McAloon	Deputy OEM Coordinator/Detective Lt.		X		Х		Х	Х	
Belleville (T)	Gerard Corbo	OEM Coordinator/Deputy Chief of Police	X			Х		Х	Х	
Bloomfield (T)	Thomas Icolari	OEM Coordinator		Х		Х		Х	Х	
Bloomfield (T)	Brian McDade	Deputy OEM Coordinator				Χ				
Caldwell (B)	Mark Guiliano	OEM Coordinator/Zoning	X			Х		Х	Х	
Cedar Grove (T)	Dan Donovan	OEM Coordinator				Χ				
Cedar Grove (T)	Jess Meely	OEM						Х	Х	
East Orange (C)	R. David Williams	OEM Coordinator	Х			Χ		Х	Х	
East Orange (C)	Elizabeth Collins	City Engineer/Assistant Director of Public Works			Х	Х				
East Orange (C)	Natasha Ortiz	OEM & Grants		X		Χ				
East Orange (C)	Alexander McClean	Principal Planner				Χ		Х	Х	
Essex Fells (B)	Jim Egan	OEM Director	Х			Χ		Х	Х	
Essex Fells (B)	Greg James	Deputy Director OEM						Х	Х	
Fairfield (T)	RJ Casedino	Lieutenant/OEM Coordinator	Х			Х		Х	Х	
Fairfield (T)	James Gasparini	Township Manager/Business Administrator		Х		Х				
Glen Ridge (B)	Dean Gnardelis	Deputy OEM Coordinator				Χ		Χ	Χ	



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Jurisdiction	Name	Title / Position	Primary Point of Contact	Alternate Point of Contact	Municipal Floodplain Administrator	Planning Partnership Kickoff Meeting	Steering Committee Kickoff Meeting	Risk Assessment Meeting	Mitigation Strategy Workshop	Steering Committee Draft Plan Meeting
Glen Ridge (B)	Erik DeLine	Deputy Administrator, Director of Planning	X					Х	Х	
Glen Ridge (B)	Ann Marie Marrow	Council President				Χ		Χ	Χ	
Irvington (T)	William Mulligan	OEM				Х		Х	Х	
Irvington (T)	John Brown	Deputy Director of Public Safety/OEM Coordinator	Х			Х				
Livingston (T)	Christopher Mullin	Fire Chief/ OEM Coordinator	X			Х	Х	Х	Х	
Livingston (T)	Stu Lukowiak	OES Coordinator				Χ				
Maplewood (T)	Patrick Wherry	Business Administrator / OEM Coordinator	Х			Х		Х	Х	
Millburn (T)	Robert Echavarria	Fire Chief/EMC	Х				X	Χ	Х	Χ
Millburn (T)	Mark Azzopardi	Millburn Police Department Captain/Deputy Emergency Management Coordinator		Х		Х				
Millburn (T)	Thomas Doty	DPW Director				Χ				
Montclair (T)	Michael Craig	Deputy OEM Coordinator				Χ				
Montclair (T)	Carmine Davino, Jr.	Deputy Coordinator	X			Χ		Χ	X	
Montclair (T)	Robert Romito	Deputy OEM Coordinator				Х				
Newark (C)	Juba Dowdell	Deputy OEM Coordinator		Х		Χ				
Newark (C)	John S. James	OEM Coordinator	X					Х	Х	





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Jurisdiction	Name	Title / Position	Primary Point of Contact	Alternate Point of Contact	Municipal Floodplain Administrator	Planning Partnership Kickoff Meeting	Steering Committee Kickoff Meeting	Risk Assessment Meeting	Mitigation Strategy Workshop	Steering Committee Draft Plan Meeting
North Caldwell (B)	John Biront	Borough Engineer/DPW Director			Х	Х		Х	Х	
North Caldwell (B)	Karl Strodthoff	Police Chief	,			Х		Х	Х	
North Caldwell (B)	Tim Peterson	Emergency Management Coordinator		X				Х	Х	
Nutley (T)	Will Cassidy	OEM Coordinator				Х				
Nutley (T)	Don Santangelo	OEM Coordinator, Fire Captain	X			Х		Х	Х	
Nutley (T)	Salvatore Ferraro			X	Х			Χ	Х	
Orange (C)	Elvin Padilla Jr	OEM Coordinator	Х			Χ		Х	Х	
Orange (C)	Bill Bishop	Assistant to the OEM Deputy Coordinator/GIS				Х		Х	Х	
Orange (C)	Todd Warren	Deputy OEM Coordinator		Х				Χ	Х	
Roseland (B)	John Matheis	OEM Coordinator	Х			Х		Х	Х	
Roseland (B)	Mark Azomanian	OEM				Х				
South Orange (V)	Julie Doran	Business Administrator	Х			Х				
South Orange (V)	Scott Egelberg	OEM Coordinator		X		Х				
South Orange (V)	David Battaglia	Engineering			Х					
South Orange (V)	Joe Foligno	DPW Director				Χ				
South Orange (V)	Greer Patras	Planner				Х		Х	Х	
South Orange (V)	Anthony Crenin	Director				Χ				
Verona (T)	Connor McCann	Deputy OEM/Fire Inspector				Х				





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Jurisdiction	Name	Title / Position	Primary Point of Contact	Alternate Point of Contact	Municipal Floodplain Administrator	Planning Partnership Kickoff Meeting	Steering Committee Kickoff Meeting	Risk Assessment Meeting	Mitigation Strategy Workshop	Steering Committee Draft Plan Meeting
Verona (T)	Joel Martin	VPD/ OEM Coordinator	Χ			Х	X	Х	Χ	
West Caldwell (T)	Lawrence Peter	OEM Coordinator	X			Χ		Χ	Χ	
West Orange (T)	Nick Allegrino	OEM Coordinator				Х				
West Orange (T)	Edwin Diaz	Sergeant/Deputy Coordinator						Х	Х	





1.2 LETTER OF INTENT TO PARTICIPATE

Municipalities were provided a copy of the Planning Partner Expectations and asked to formally notify the County of their intent to participate via a Letter of Intent to Participate and to identify a primary and secondary planning point of contact to serve on a Planning Committee and represent the interests of their respective community. In addition, each municipal Floodplain Administrator (FPA) was identified and requested to actively participate in the planning process. Additional municipal officials that could support hazard mitigation were also requested to be identified. The signed Letters of Intent to Participate are included in this section.







December 10, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject: Essex County Hazard Mitigation Plan Update –

Authorization and Letter of Intent to Participate

Township of Belleville

Dear Sheriff Fontoura:

This is to confirm that the Township of Belleville is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Belleville:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people
 will be responsible for representing their community and assuring that these participation expectations
 are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development
 - Identification of hazard risk areas
 - o Identification of hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
 - Support public outreach efforts in your community which may include:



- Providing notices of the planning project on your municipal website with links to a County project website
- Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
- Advertising and supporting public meetings in your area
- Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:
Gerard Corbo

Phone Number:
973-450-3588

Position/Department:
Deputy Chief of Police/ OEM Coordinator

Email Address:
gcorbo@bellevillenj.org

Alternate/Secondary POC: Position/Department:

John McAloon Detective Lt./ Deputy OEM Coordinator

Phone Number: Email Address:

973-450-3361 jmcaloon@bellevillenj.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department:
Frank DeLorenzo Construction Official

Phone Number: Email Address:

973-450-9309 fdelorenzo@bellevillenj.org

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide the required information, and review the jurisdictional annex. Contact information for the different municipal representatives is included below.

Name (Engineer):	Position/Department:
Thomas Herits	TWSP Engineer
Email Address: therits@bellevillenj.org	
Name (Lead Planner/Planning POC):	Position/Department:

Brian Banda	TWSP Manager	
Email Address: bbanda@bellevillenj.org		

Name (Public Works): Robert Welter	Position/Department: DPW Superintendent	
Email Address: rwelter@bellevillenj.org		

Name (Emergency Management):	Position/Department:
Michael Melham	TWSP Mayor/ Deputy OEM Coordinator
Email Address: mmelham@bellevillenj.org	

Name (Elected Official/Administrator):	Position/Department:
Michael Melham	TWSP Mayor
Email Address: mmelham@bellevillenj.org	

Name (Building Department/Code Enforcement): Chris Souza	Position/Department: Assistant construction official	
Email Address: csouza@bellevillenj.org		

Name (Municipal Clerk):

Position/Department: TWSP Clerk

Albert Cabrera R.M.C.

Email Address:

acabrera@bellevillenj.org

Name (Other Representative): Mark Minichini Position/Department:

Chief of Police/ Deputy TWSP Manager

Email Address:

mminichini@bellevillenj.org

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Very truly yours,

Michael A. Melham, Mayor

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Township of Belleville

JENNY MUNDELL MAYOR



ANTHONY DEZENZO TOWNSHIP ADMINISTRATOR

TOWNSHIP OF BLOOMFIELD

1 Municipal Plaza Bloomfield, New Jersey 07003-3487 Phone: 973-680-4006

November 27, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, New Jersey 07052

Subject:

Essex County Hazard Mitigation Plan Update Authorization and Letter of Intent to Participate Township of Bloomfield

Dear Sheriff Fontoura:

This is to confirm that the Township of Bloomfield is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Bloomfield:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf,
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:

Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.

Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.

Support the Steering Committee selected to oversee the development of this plan.

Provide representation at Planning Partnership meetings (N3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).

Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:

Structure and facility inventory data o Identification of new development and anticipated development o Identification of hazard risk areas

Identification of hazard events and losses that have impacted your community in the last five years o Identification of plans, studies, reports and ordinances addressing hazard risk o

Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions,

Support public outreach efforts in your community which may include:

o Providing notices of the planning project on your municipal website with links to a County project website

Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.) o Advertising and supporting public meetings in your area o Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and

Severe Repetitive Loss property owners in your community,

Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.

Completing data and information collection survey forms in a timely manner.

Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.

Involve your local NFIP Floodplain Administrator in the planning process.

Review draft Plan sections when requested and provide comment and input as appropriate.

Adopt the Plan by resolution of their governing body after FEMA conditional approval.

Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.

3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:	Position/Department: Town Administrator
Anthony DeZenzo	Email
	Address:adezenzo@bloomfieldtwpnj.com
Phone Number:973-680-4006	
Alternate/Secondary POC:	Position/Department: OEM Coordinator
Michael Venezia	Email Address:
	michaeljosephvenezia@gmail.com
Phone Number: 973-680-4006	

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA

Position/Department: Engineering

Paul Lasek

Email Address:plasek@bloomfieldtwpnj.com

Phone Number: 973-680-4130

process. They will be invited to attend mee	representatives from our community in the planning tings, provide required information, and review the different municipal representatives are included below.
Name (Engineer)	sition/Department: Engineering
Paul Lasek	
 Email	
Address:plasek@bloomfieldtwpnj.com	
Name (Lead Planner/Planning POC):	Position/Department: Fire Dept.
Chief Lou Venezia	
Email Address:lvenezia@bloomfieldtwpnj.com	
Name (Public Works): Sean Schwindt	Position/Department: Director DPW
Email Address:sschwindt@bloomfieldtwpnj.com	
Name (Emergency Management): Brian McDade	Position/Department: Fire Dept.
Email Address:bmcdade@bloomfieldtwpnj.com	
Name (Elected Official/Administrator):	Position/Department:
Email Address:	
Name (Building Department/Code Enforcement):	Position/Department: Fire Dept.
Chief Lou Venezia	
Email Address: lvenezia@bloomfieldtwpnj.com	

973-680-4130

Name (Municipal Clerk):	Position/Department: Clerk
Louise Palagano	
Email Address:lpalagano@bloomfieldtwpnj.com	
Name (Other Representative):	Position/Department: OEM/Admin
Tom Icolari	
Email Address: ticolari@bloomfieldnjpd.com	

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

r& Madell Mayor Jenny Mundell Township of Bloomfield



BOROUGH OF CALDWELL NEW JERSEY

Twenty Four Small Avenue • Caldwell NJ, 07006 • 973-226-6100 • Fax 973-403-1355

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052 11/21/24

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate

Dear Sheriff Fontoura:

This is to confirm that the **Borough of Caldwell** is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the **Borough of Caldwell**

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas
 - o identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk

- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Mark Guiliano OEM Coordinator	Position/Department:
1 (0.72) (0.2 (0.20)	Email Address: ireofficial@caldwell-nj.com

Alternate/Secondary POC: Gary Garamella Deputy OEM Coordinator	Position/Department:	
Phone Number: (973) 403-4629	Email Address: firepi@caldwell-nj.com	

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA:	Position/Department:
CARL THUNELL	CTHUNELL @ CALDWELL -NJ. COM

Phone Number:	Email Address:
(973) 403-4626	pmilani@caldwell-nj.com
process, riney will be invited to attend mee	representatives from our community in the plannings, provide required information, and review the different municipal representatives are include
Name (Engineer): Mike DeCarlo Assistant Engineer	Position/Department:
Email Address: mdecarlo@caldwell-nj.com	·
Name (Lead Planner/Planning POC): Alex Palumbo Municipal Business Administrator	Position/Department:
Email Address: apalumbo@caldwell-nj.com	
Name (Public Works): Jake Pohlman Public Works Foreman Email Address: jpohlman@caldwell-nj.com	Position/Department:
Name (Emergency Management): Mark Guiliano OEM Coordinator Email Address: Fireofficial@caldwell-nj.com	Position/Department:
Name (Elected Official/Administrator): Garrett Jones Mayor Email Address:	Position/Department:
sjones@caldwell-nj.com Name (Building Department/Code Enforcement):	Position / Daniel
Construction Official ALL THWELL imail Address: Callwell-nj.com	Position/Department:
lame (Municipal Clerk):	Position/Department:

Brittany Heun	Municipal Clerk		
Email Address: bheun@caldwell-r	ıj.com		
Name (Other Repr	esentative):	Position/Department:	-

 Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely

Garkett Jones

Email Address:

Mayor - Borough of Caldwell

MAYOR Melissa Skabich

DEPUTY MAYORMichele Mega

Michele Mega

Council Members
Joseph Maceri
Kerry Peterson
John Zazzali

GROAT GROUNT

Township Manager Joseph M. Zichelli, Esq.

MUNICIPAL CLERK Dale A. Forde

November 25, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Return to: essexoem@essexsheriff.com

Attn. Sgt. Ryan Peters

Subject:

Essex County Hazard Mitigation Plan Update -

Authorization and Letter of Intent to Participate

Township of Cedar Grove

Dear Sheriff Fontoura:

This is to confirm that the Township of Cedar Grove is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Cedar Grove:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development

- Identification of hazard risk areas
- o Identification of hazard events and losses that have impacted your community in the last five years
- o Identification of plans, studies, reports and ordinances addressing hazard risk
- o Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - o Providing notices of the planning project on your municipal website with links to a county project website
 - o Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - o Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Jeffrey McElroy	Position/Department: OEM Coordinator	
Phone Number: (973) 239 – 4100 x 262	Email Address: jmcelroy@cedargrovepd.org	

Alternate/Secondary POC:	Position/Department:
Joseph M. Zichelli, Esq.	Township Manager
Phone Number:	Email Address:
(973) 239 – 1410 x 202	zichelli@cedargrovenj.org
` ′	

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA:

Suburban Consulting Engineers

Phone Number:

Position/Department:

Engineers

Email Address: ahandel@suburbanconsulting.com

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer):
Alexandra Handel, PE, PP, CME

Email Address:
ahandel@suburbanconsulting.com

Position/Department:
Township Engineer

Name (Lead Planner/Planning POC):

Jason Kassler

Email Address:

jason@kasslerassociates.com

Name (Public Works):

Jerry Vitiello

Michael Grasso

Peter DiGeronimo

Email Address:

vitiello@cedargrovenj.org

mgrasso@cedargrovenj.org

pdigeronimo@cedargrovenj.org

Name (Emergency Management):

Jeffrey McElroy

Email Address:

jmcelroy@cedargrovepd.org

Position/Department:

OEM Coordinator

Name (Elected Official/Administrator):

Joseph M. Zichelli, Esq.

Email Address:

zichelli@cedargrovenj.org

Position/Department:

Township Manager

Position/Department: Code Enforcement
Position/Department: Township Clerk
Position/Department:

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Mayor Melissa Skabich Township of Cedar Grove





December 30, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate City of East Orange

Dear Sheriff Fontoura:

This is to confirm that the City of East Orange is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the City of East Orange

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
- Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, Attention: Sergeant Ryan Peter.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These
 people will be responsible for representing their community and assuring that these participation
 expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).



- Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports, and ordinances addressing hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - o Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 1. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Position/Department: R. David Williams

OEM Coordinator

Email Address: Phone Number:

David.Williams@eastorange-nj.gov 973-677-8924

201-704-7604

Alternate/Secondary POC: Position/Department: OEM & Grants

Natasha Ortiz

Email Address: Natasha.Ortiz@eastorange-nj.gov Phone Number: 862-220-2677

2. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department:

Elizabeth Collins City Engineer/ Assistant Director Public Works

Phone Number: 973-266-5330 **Email Address:**

Elizabeth.Collins@eastorange-nj.gov

3. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer): Elizabeth Collins Position/Department: City Engineer/ Assistant

Director Public Works

Email Address:

Elizabeth.Collins@eastorange-nj.gov

Name (Lead Planner/Planning POC): Alycia Cohen Position/Department: Director/ Office of

Planning, Policy & Development

Email Address: Alycia.Cohen@eastorange-nj.gov

Name Rupert Bell:

Position/Department: Director/ East Orange
Public Works

Email Address: Rupert.Bell@eastorange-nj.gov

Name R. David Williams

Position/Department: Coordinator/ East Orange
OEM

Email Address: David.Williams@eastorangenj.gov

Name Solomon Steplight

Position/Department: City Administrator

Email Address: Solomon.Steplight@eastorangenj.gov

Name (Building Department/Code Enforcement): Position/Department: Director/ Code Enforcement

Eladio Negron

Email Address: Eladio.Negron@eastorange-nj.gov

Name (Municipal Clerk): Cynthia Brown

Position/Department: City Clerk

Email Address: Cynthia.Brown@eastorangenj.gov

Name (Other Representative):

Natasha Ortiz

Email Address:
Natasha.Ortiz@eastorange-nj.gov

4. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Ted R. Green

Mayor

BOROUGH OF ESSEX FELLS



255 ROSELAND AVENUE ESSEX FELLS, NEW JERSEY 07021

12/09/2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject: Essex County Hazard Mitigation Plan Update –

Authorization and Letter of Intent to Participate

Borough of Essex Fells

Dear Sheriff Fontoura:

This is to confirm that the Borough of Essex Fells is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Borough of Essex Fells:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk

- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - O Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Position/Department:

Jim Egan

OEM Coordinator/Essex Fells Fire

Phone Number: 973-518-3011 Email Address: jimegan103@gmail.com

Alternate/Secondary POC: Position/Department:

Capt. Paulo Gomes Deputy Coordinator/Essex Fells Police

Phone Number: 973-202-9314 Email Address: pgomes@essexfellspd.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department:

Mike Petry Engineer/Essex Fells Borough

Phone Number: 973-303-8873 Email Address: mikepetry@petryengineering.com

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer):

Position/Department:

Mike Petry

Borough Engineer/ Essex Fells Borough

Email Address: mikepetry@petryengineering.com

Name (Lead Planner/Planning POC):

Position/Department:

Jim Egan

OEM Coordinator/ Essex Fells Fire

Email Address: jimegan103@gmail.com

Name (Public Works):

Position/Department:

Anthony Sorisi

Superintendent/Essex Fells DPW

Email Address: operator@essexfellsboro.com

Name (Emergency Management):

Jim Egan

Position/Department:

OEM Coordinator/ Essex Fells Fire

Email Address: jimegan103@gmail.com

Name (Elected Official/Administrator):

Francine T. Paserchia

Position/Department:

Borough Administrator/Essex Fells Borough

Email Address: adminstrator@essexfellsboro.com

Name (Building Department/Code Enforcement):

Carl Thunell

Position/Department:

Zoning Officer/Essex Fells Borough

Email Address: buildingta@essexfellsboro.com

Name (Municipal Clerk):

Francine Paserchia

Position/Department:

Borough Clerk/Essex Fells Borough

Email Address: adminstrator@essexfellsboro.com

Name (Other Representative):

Position/Department:

N/A

N/A

Email	Add	ress:	N	/A
LIIIGII	, ,,,,,			,,,

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely

Mayor Edward Davis Borough of Essex Fells



11/19/2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate

Fairfield Township

Dear Sheriff Fontoura:

This is to confirm that the Fairfield Township is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Fairfield Township:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - o Identification of hazard risk areas

- Identification of hazard events and losses that have impacted your community in the last five years
- o Identification of plans, studies, reports and ordinances addressing hazard risk
- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - o Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and
 Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Lt. RJ Casendino
Position/Department: Lieutenant/Police
Phone Number: 973-227-1400
Email Address: rcasendino@fairfieldnj.org

Alternate/Secondary POC: James Gasparini Position/Department: Business Administrator

Phone Number: 973-227-1400 Email Address: jgasparini@fairfieldnj.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Steve Bury	Position/Department: Engineer
Phone Number: 973-882-2700	Email Address: sbury@fairfieldnj.org
process. They will be invited to attend meet	epresentatives from our community in the planning ings, provide required information, and review the he different municipal representatives are included
Name (Engineer): Steve Bury	Position/Department: SAA
Email Address: SAA	
Name (Lead Planner/Planning POC): LT Casendino	Position/Department:
Email Address:	
Name (Public Works): Robert Payne	Position/Department: DPW Director
Email Address: rpayne@fairfieldnj.org	
Name (Emergency Management): LT Casendino	Position/Department:
Email Address:	
Name (Elected Official/Administrator): James Gasparini	Position/Department: Business Admin
Email Address:	
Name (Building Department/Code Enforcement):	Position/Department:

Email Address:	
Name (Municipal Clerk): Denise Cafone	Position/Department: Twp Clerk
	resident paparament in palaram
Email Address: Dcafone@fairfieldnj.org	
Name (Other Representative):	Position/Department:
Email Address:	

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Mayor William Galese Fairfield Twp



December 12, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate Borough of Glen Ridge

Dear Sheriff Fontoura:

This is to confirm that the Borough of Glen Ridge is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Borough of Glen Ridge:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas

- Identification of hazard events and losses that have impacted your community in the last five years
- o Identification of plans, studies, reports and ordinances addressing hazard risk
- o Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a
 County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - O Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Erik DeLine	Position/Department: Deputy Administrator
Phone Number: 973-748-8400 ext 240	Email Address: eideline@glenridgenj.org

Alternate/Secondary POC: Mike Zichelli	Position/Department: Administrator
Phone Number: 973-748-8400 ext 235	Email Address: eideline@glenridgenj.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Paul Ferriero	Position/Department: Engineer
Phone Number: 908-879-6209	Email Address: pferriero@boswellengineering.com
process. They will be invited to attend mee	representatives from our community in the planning tings, provide required information, and review the the different municipal representatives are included
Name (Engineer): Paul Ferriero	Position/Department: Engineering
Email Address: pferriero@boswellengineering.com	
Name (Lead Planner/Planning POC): Erik DeLine	Position/Department: Planning
Email Address: eideline@glenridgenj.org	
Name (Public Works): Bill Bartlett	Position/Department: Public Works
Email Address: wrbartlett@glenridgenj.org	
Name (Emergency Management): Dean Gnardalis	Position/Department: Police
Email Address: djnardalis@glenridgenj.org	
Name (Elected Official/Administrator): Debbie Mans	Position/Department: Mayor
Email Address: dmans@glenridgenj.org	

Name (Building Department/Code Enforcement): Mike DeFrino	Position/Department: Construction Official
Email Address: construction@glenridgenj.org	
Name (Municipal Clerk): Tara Ventola	Position/Department: Clerk
Email Address: tventola@glenridgenj.org	
Name (Other Representative):	Position/Department:
Email Address:	

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Mayor Deborah Mans Borough of Glen Ridge

THE HONORABLE TONY VAUSS

Mayor of the Township of Irvington

December 2, 2024

MUSA MALIK

Business Administrator mmalik@irvingtonnj.gov



OFFICE OF THE MAYOR

1 Civic Square, Irvington, NJ 07111 Tel: (973) 399-6657 | Fax:(973) 399 0827

TANYA R. WALKER

Executive Assistant & Scheduler twalker@irvingtonnj.gov

SYESHA BENBOW

Secretary To The Mayor sbenbow@irvingtonnj.gov

Sheriff Armando B. Fontoura Essex County Sheriff's Office

Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

ATTENTION: Sergeant Ryan Peter

Subject:

Essex County Hazard Mitigation Plan Update -

Authorization and Letter of Intent to Participate

Township of Irvington

Dear Sheriff Fontoura:

This is to confirm that the Township of Irvington is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Irvington:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These
 people will be responsible for representing their community and assuring that these participation
 expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development
 - Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.

- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and
 potentially involved with the planning process.
- · Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these
 POCs are responsible for assuring municipal representation at Planning Partnership meetings, and
 assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning
 Partner Expectations above, are met.

Primary POC:
John Brown

Position/Department:
Deputy Director of Public Safety/OEM Coordinator
Department of Public Safety

Email Address:
JBrown@irvingtonnj.gov

Alternate/Secondary POC: Position/Department:

Shazil Grisham Account Clerk

Office of Business Administration

Phone Number: Email Address:

973-399-6667 sgrisham@irvingtonni.gov

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department:

John A. Wiggins, P.E. Township Engineer

Phone Number: Email Address:

973-399-6696 Jwiggins@irvingtonnj.gov

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer): John A. Wiggins, P.E. Position/Department:

Email Address:

Jwiggins@irvingtonnj.gov

Position/Department:

Director, Department of Community Development

Township Engineer, Engineering Department

Name (Lead Planner/Planning POC):

Kyana Woolridge

Email Address:

Kwoolridge@irvingtonnj.gov

Name (Public Works):

Cassandra Chatman

Email Address:

CChatman@irvigntonnj.gov

Position/Department:

Director of Public Works Department of Public Works

Name (Emergency Management):

John F. Brown

Email Address:

JBrown@irvingtonnj.gov

Position/Department:

Deputy Director of Public Safety/OEM Coordinator

Department of Public Safety

Name (Elected Official/Administrator):

Musa Malik

Position/Department: Business Administrator

Email Address:

MMalik@irvingtonnj.gov

Name (Building Department/Code Enforcement):

Joseph Ouseley

Position/Department:

Director of Building Construction

Email Address:

jouseley@irvingtonnj.gov

Name (Municipal Clerk):

Shawna Supel

Position/Department: Municipal Clerk

Email Address:

SSupel@irvingtonnj.gov

Name (Other Representative):	Position/Department:
- 441)	
Email Address:	

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Tony Vauss, Mayor Township of Irvington





Fire Division

Fire Headquarters 62 S. Livingston Ave. Livingston, NJ 07039

EMERGENCY: 911

Business: 973-992-2373 Fax: 973-535-2948 lfd@livingstonnj.org

December 4, 2024

Christopher C. Mullin

Fire Chief/Fire Official

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Emergency Management Coordinator

Subject:Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate Livingston Township

Dear Sheriff Fontoura:

This is to confirm that the Livingston Township is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Livingston

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
- Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
- Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
- Structure and facility inventory data
- Identification of new development and anticipated development

- o Identification of hazard risk areas
- Identification of hazard events and losses that have impacted your community in the last five years
- o Identification of plans, studies, reports and ordinances addressing hazard risk
- o Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - o Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:	Position/Department:
Christopher C. Mullin	Fire Chief/Fire Official/OEM Coordinator
Phone Number:	Email Address:
(973) 992-2373	Cmullin@livingstonnj.org

Alternate/Secondary POC: Rossana Mattia	Position/Department: Admin Assistant to the Fire Chief
Phone Number: (973) 992-2373	Email Address: Rmattia@livingstonnj.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA:

Position/Department:

Jeanette Harduby

Township Engineer / Engineering Dept.

Phone Number:

Email Address:

(973) 535-7949

Jharduby@livingstonnj.org

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer):

Position/Department:

Jeanette Harduby

Township Engineer / Engineering

Email Address:

Jharduby@livingstonnj.org

Name (Lead Planner/Planning POC):

Jackie Coombs – Hollis

Position/Department:

Email Address:

Jhollis@livingstonnj.org

Land Use Administrator

Name (Public Works):

Chris Southworth

Position/Department: D.P.W. Superintendent

Email Address:

Csouthworth@livingstonnj.org

Name (Emergency Management):

Christopher C. Mullin

Position/Department:

O.E.M. Coordinator / Emergency Mgmt.

Email Address:

Cmullin@livingstonnj.org

Name (Elected Official/Administrator):

Barry Lewis

Position/Department:

Township Manager

Email Address:

Blewis@livingstonnj.org

Name (Building Department/Code Enforcement):

Martin Chiarolanzio

Position/Department:

Email Address:

Construction Official

Mchiarolanzio@livingstonnj.org	
Name (Municipal Clerk): Carolyn Mazzucco	Position/Department: Township Clerk
Email Address: Cmazzucco@livingstonnj.org	
Name (Other Representative):	Position/Department:
Email Address:	

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Barry Lewis - Township Manager

Livingston Township.



Township of Maplewood

Municipal Building, 574 Valley Street Maplewood, New Jersey 07040-2691 Telephone (973) 762-8120 Fax: (973) 762-3645

Patrick Wherry Business Administrator Miriam R. Perez Assistant Business Administrator

December 10, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate

Township of Maplewood

Dear Sheriff Fontoura:

This is to confirm that the Township of Maplewood is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Maplewood:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - o Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas

- Identification of hazard events and losses that have impacted your community in the last five years
- o Identification of plans, studies, reports and ordinances addressing hazard risk
- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a
 County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Business Administrator, OEM Coordinator
Department of Administration
Email Address:
pwherry@maplewoodnj.gov

Alternate/Secondary POC:

Miriam Perez

Assistant Business Administrator
Department of Administration

Phone Number:

973-762-8120 x2003

Position/Department:

Assistant Business Administrator
Department of Administration

Email Address:
mperez@maplewoodnj.gov

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA:

Position/Department:

Darius Pokoj

Construction Official, Floodplain Administrator

Department of Community Development

Phone Number:

Email Address:

973-762-8120 x3600

dpokoj@maplewoodnj.gov

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer):

Paul Kittner

Position/Department:

Township Engineer, DPW Director

Department of Engineering and Public Works

Email Address:

pkittner@maplewoodnj.gov

Name (Lead Planner/Planning POC):

Paul Grygiel

Position/Department:

Principal Planner, Phillips Preiss Grygiel Leheny

Hughes, LLC

Email Address:

pgrygiel@phillipspreiss.com

Name (Public Works):

Paul Kittner

Position/Department:

Township Engineer, DPW Director

Department of Engineering and Public Works

Email Address:

pkittner@maplewoodnj.gov

Name (Emergency Management):

Patrick Wherry

Position/Department:

Business Administrator, OEM Coordinator

Department of Administration

Email Address:

pwherry@maplewoodnj.gov

ciliali Addiess.

Position/Department:

Mayor

Name (Elected Official/Administrator):

Nancy Adams

Email Address:

nadams@mapelwoodnj.gov

Name (Building Department/Code Enforcement):

Darius Pokoj

Position/Department:

Construction Official

Department of Community Development

Email Address:

dpokoj@maplewoodnj.gov

Name (Municipal Clerk):

Liz Fritzen

Position/Department:

Clerk

Office of the Clerk

Email Address:

lfritzen@maplewoodnj.go

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Nancy Adams, Mayor

Township of Maplewood



375 MILLBURN AVENUE MILLBURN, NEW JERSEY 07041

December 3, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate Township of Millburn

Dear Sheriff Fontoura:

This is to confirm that the Township of Millburn is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Millburn:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - o Structure and facility inventory data
 - o Identification of new development and anticipated development
 - Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years

- Identification of plans, studies, reports and ordinances addressing hazard risk
- o Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a
 County project website
 - o Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - o Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and
 Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:	Position/Department:
Robert Echavarria	Fire Chief/Emergency Management Coordinator
Phone Number:	Email Address:
908-65-0561	rechavarria@millburntwp.org

Alternate/Secondary POC:	Position/Department:
Mark Azzopardi	Captain/Millburn Police Department/Deputy
	Emergency Management Coordinator
Phone Number:	Email Address:
973-564-7030	mazopardi@millburntwp.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department:	Name of NFIP FPA:	Position/Department:
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Martha Callahan Engineer/Engineering Phone Number: **Email Address:** 973-564-7052 mcallahan@millburntwp.org 5. Meet participation expectations by including representatives from our community in the planning

process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer): Martha Callahan

Position/Department: Engineer/Engineering

Email Address:

mcallahan@millburntwp.org

Name (Lead Planner/Planning POC):

Position/Department: Topology

Graham Petto, Topology

Email Address:

g.petto@topology.is

Name (Public Works): Position/Department: **Public Works** Tom Doty

Email Address: tdoty@millburntwp.org

Name (Emergency Management): Position/Department: Robert Echavarria

Email Address:

rechavarria@millburntwp.org

Fire Chief/Emergency Management Coordinator

Name (Elected Official/Administrator): Position/Department:

Alexander McDonald Business Administrator/Deputy Emergency

Management Coordinator

Email Address:

Amcdonald@millburntwp.org

Name (Building Department/Code Enforcement): Position/Department:

Frank Catanese Construction Official/Building Department

Email Address:

fcatanese@millburntwp.org

Name (Municipal Clerk):

Christine Gatti

Position/Department:

Register Municipal Clerk/Clerk

Email Address:

cgatti@millburntwp.org

Position/Department:

Battalion Chief/Fire Department

Name (Other Representative):

Ted Beady

Email Address:

tbeady@millburntwp.org

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Mayor Annette Romano Township of Millburn



IJ 07042 • telephone: 973-509-4927

Township of Montclair • 205 Claremont Avenue

Montclair, NJ 07042

Michael Lapolla, Esq. Interim Township Manager mlapolla@montclairnjusa.org

December 19, 2024

Sheriff Armando B. Fontoura Essex County Sheriffs Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject: Essex County Hazard Mitigation Plan Update -

Authorization and letter of Intent to Participate

Township of Montclair

Dear Sheriff Fontoura:

This is to confirm that the Township of Montclair is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Montclair:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this " Authorization and letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings(~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data





nship of Montclair • 205 Claremont Avenue

Montclair, NJ 07042

Michael Lapolla, Esq. Interim Township Manager mlapolla@montclairnjusa.org

telephone: 973-509-4927

- o Identification of new development and anticipated development
- o Identification of hazard risk areas
- Identification of hazard events and losses that have impacted your community in the last five years
- Identification of plans, studies, reports and ordinances addressing hazard risk
- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - o Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP)
 Repetitive Loss and Severe Repetitive Loss property owners in your
 community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.





205 Claremont Avenue

Montclair, NJ 07042

Michael Lapolla, Esq.

telephone: 973-509-

Interim Township Manager mlapolla@montclairnjusa.org

Primary POC: Position/Department:

Carmine Davino, Jr. Supervisor/Division of Code Enforcement

Phone Number: Email Address:

973-509-4904 cdavinojr@montclairnjusa.org

Position/Department: Alternate/Secondary POC:

Chief Information Officer/Office of Tony Fan

Information Technology

Phone Number: Email Address:

973-509-4927 tfan@montclairnjusa.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department:

Norberto Hernandez Township Engineer/Department of

Community Services

Phone Number: Email Address:

973-509-5707 nhernandez@montclairnjusa.org

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer): Position/Department:

Norberto Hernandez Township Engineer/Department of

Community Services

Email Address:

nhernandez@montclairnjusa.org

Name (Lead Planner/Planning POX): Position/Department:

Janice Talley Director/Department of Planning and

Zoning

Email Address:

jtalley@montclairnjusa.org





wnship of Montclair • 205 Claremont Avenue

Montclair, NJ 07042

telephone: 973-509-4927

Michael Lapolla, Esq.

Michael Lapolla, Esq. Interim Township Manager mlapolla@montclairnjusa.org

Name (Public Works):

Position/Department:

Austin Ashley

Director/Department of Community

Services

Email Address:

aashley@montclairnjusa.org

Name (Emergency Management):

Position/Department:

OEM Coordinator/Emergency Operations

Center

Email Address:

Rob Bianco

aashley@montclairnjusa.org

Name (Elected Official/Administrator):

Michael Lapolla

Position/Department:

Interim Township Manager/Office of the

Township Manager

Email Address:

mlapolla@montclairnjusa.org

Name (Building Department/Code

Enforcement):

Norma Tassy

Position/Department:

Director/Division of Code Enforcement

Email Address:

ntassy@montclairnjusa.org

Name (Municipal Clerk):

Angelese Bermudez Nieves

Position/Department:

Township Clerk/ Office of the Township

Clerk

Email Address:

anieves@montclairnjusa.org

Name (Other Representative):

Mayor Rene Baskerville

Position/Department:

Mayor/Mayor & Township Council

Email Address:

MayorBaskerville@montclairnjusa.org





Township of Montclair • 205 Claremont Avenue

Montclair, NJ 07042

telephone: 973-509-4927

Michael Lapolla, Esq. Interim Township Manager mlapolla@montclairnjusa.org

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Michael Lapolla, Esq. Interim Township Manager

Township of Montclair

Upicher/ Lpl





Emergency Management Division 480 Clinton Avenue Newark, NJ 07108 Tel: (973) 877-9259

Fax: (973) 792-9128

December 2, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject: Essex County Hazard Mitigation Plan Update –

Authorization and Letter of Intent to Participate

City of Newark

Dear Sheriff Fontoura:

This is to confirm that the City of Newark is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the City of Newark:

- Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below.
 These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk



Emergency Management Division
480 Clinton Avenue
Newark, NJ 07108

Tel: (973) 877-9259 Fax: (973) 792-9128



- o Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - o Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

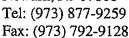
Primary POC: John S. James	Position/Department: OEM Coordinator
Phone Number: (973) 991-8876	Email Address: jamesjoh@ci.newark.nj.us

Alternate/Secondary POC: Juba Dowdell Position/Department: OEM Deputy Coordinator

Phone Number: (973) 902-1383 Email Address: dowdellj@ci.newark.nj.us



Emergency Management Division 480 Clinton Avenue Newark, NJ 07108





4. Our designated local Floodplain Administrator (FPA) under the NFIP is: Name of NFIP FPA: Delores M. Wooden Position/Department: Director of Engineering Phone Number: 973.733.8520 Email Address: : woodend@ci.newark.nj.us 5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below. Name (Engineer): Delores M. Wooden Position/Department: Director of Engineering Email Address: woodend@ci.newark.nj.us Name (Lead Planner/Planning POC): Pallavi Position/Department: City Planner Shinde Email Address: Shindep@ci.newark.nj.us Name (Public Works): Tyreek Rolon Position/Department: Director of DPW Email Address: rolont@ci.newark.nj.us Name (Emergency Management): John S. James Position/Department: OEM Coordinator Email Address: jamesjoh@ci.newark.nj.us



Mayor Ras J. Baraka City Of Newark

City of Newark DEPARTMENT OF PUBLIC SAFETY



Emergency Management Division 480 Clinton Avenue Newark, NJ 07108 Tel: (973) 877-9259

Fax: (973) 792-9128

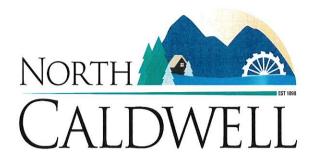
Name (Elected Official/Administrator): Eric Pennington	Position/Department: Business Administrator
Email Address: penningtone@ci.newark.nj.us	
Name (Building Department/Code Enforcement):	Position/Department: Manager of Code Enforcement
Abiodun Nance	
Email Address: nancea@ci.newark.nj.us	
Name (Municipal Clerk): Kecia Daniels	Position/Department: Municipal Clerk
manne (manneigan elerk). Reela Barneis	1 Baldony bepartment. Withhicipar Clerk
Email Address: danielsk@ci.newark.nj.us	
Name (Other Representative):	Position/Department:
Email Address:	
Ellian Audi ess.	
Recognizes that failure to meet the minimum par by the Steering Committee will result in our mur	ticipation expectations and deadlines, as determined nicipality being excluded from the planning process.
Sincerely,	





Emergency Management Division 480 Clinton Avenue Newark, NJ 07108 Tel: (973) 877-9259 Fax: (973) 792-9128

Name (Elected Official/Administrator): Eric Pennington	Position/Department: Business Administrator
Email Address: penningtone@ci.newark.nj.us	
Name (Building Department/Code Enforcement): Abiodun Nance Email Address: nancea@ci.newark.nj.us	Position/Department: Manager of Code Enforcement
Name (Municipal Clerk): Kecia Daniels	Position/Department: Municipal Clerk
Email Address: danielsk@ci.newark.nj.us	
Name (Other Representative): Email Address:	Position/Department:
6. Recognizes that failure to meet the minimum pa by the Steering Committee will result in our mu	rticipation expectations and deadlines, as determined nicipality being excluded from the planning process.
Sincerely,	
Mayor Ras J. Baraka Zity Of Newark	



Borough of North Caldwell

141 Gould Avenue
North Caldwell, New Jersey 07006
(973) 228-6410 www.northcaldwell.org

November 22, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Via email: <u>essexoem@essexsheriff.com</u>

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate Borough of North Caldwell

Dear Sheriff Fontoura:

This is to confirm that the Borough of North Caldwell is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Borough of North Caldwell:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - o Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas
 - $\circ\quad$ Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk

- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - o Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Position/Department: Glenn Domenick Borough Administrator Phone Number: Email Address: 973-228-6410, x-101 gdomenick@northcaldwell.org

Alternate/Secondary POC: Position/Department: Tim Peterson

Emergency Management Coordinator

Phone Number: **Email Address:**

973-226-0800 oem@northcaldwell.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department:

John Biront Borough Engineer, DPW Director

Phone Number: **Email Address:**

973-228-6410, x-132 jbiront@northcaldwell.org 5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer):

Position/Department:

John Biront

Borough Engineer/DPW Director

Email Address:

jbiront@northcaldwell.org

Position/Department:

Borough Engineer/DPW Director

Name (Lead Planner/Planning POC):

John Biront

Email Address:

jbiront@northcaldwell.org

Name (Public Works):

John Biront

Position/Department:

DPW Director/Borough Engineer

Email Address:

jbiront@northcaldwell.org

Name (Emergency Management):

Timothy Peterson

Position/Department:

Emergency Management Coordinator

Email Address:

oem@northcaldwell.org

Name (Elected Official/Administrator):

Glenn Domenick

Position/Department: Borough Administrator

Email Address:

gdomenick@northcaldwell.org

Name (Building Department/Code Enforcement):

Paul Milani

Position/Department:

Building/Construction Code Official

Email Address:

pmilani@northcaldwell.org

Name (Municipal Clerk):

Tami Michelotti

Position/Department:

Municipal Clerk, Deputy Borough Administrator

Email Address:

tmichelotti@northcaldwell.org

Name (Other Representative): Karl Strodthoff, Police Chief Position/Department:
Deputy Emergency Management Coordinator

Email Address:

kstrodthoff@northcaldwell.org

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Much Myn Niayor Joshua H. Raymond Borough of North Caldwell

TOWNSHIP OF NUTLEY DEPARTMENT OF PUBLIC AFFAIRS AND HEALTH

149 CHESTNUT STREET NUTLEY, NEW JERSEY 07110 PHONE: (973) 284-4976 FAX: (973) 661-9411



JOHN V. KELLY, III Mayor

January 16, 2025

Sheriff Amir D. Jones Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate

Township of Nutley

Dear Sheriff Jones:

This is to confirm that the Township of Nutley is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Nutley

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below.
 These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - o Identification of hazard risk areas
 - o Identification of hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.

- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a
 County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Salvatore Ferraro

Position/Department: Engineering/Chief Project
Coordinator

Phone Number: 973-284-4958 x 2254

Email Address: sferraro@nutleynj.org

Alternate/Secondary POC: Don Santangelo

Position/Department: OEM Coordinator

Phone Number: 973-284-4940 x 2124

Email Address: dsantangelo@nutleynj.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Salvatore Ferraro	Position/Department: Engineering/ Chief Project Coordinator

Phone Number: 973-284-4958 x 2254	Email Address: sferraro@nutleynj.org	
	8	

- 5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.
- 6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Mayor John Kelly III Township of Nutley



29 North Day Street, Orange, New Jersey 07050 Phone: (973) 952-6102 Fax: (973) 676-7458

November 18, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update - Authorization and Letter of Intent to

Participate City of Orange Township

Dear Sheriff Fontoura:

This is to confirm that the City of Orange Township is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the City of Orange Township:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee, to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County
 - Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk
 - o Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.

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 - o Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- · Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:
Elvin Padilla Jr.

Phone Number:

862-438-0647

Position/Department:
OEM Coordinator

Email Address:
epadillajr@orangenj.gov

Alternate/Secondary POC:

Todd Warren

Position/Department:
Deputy OEM Coordinator

Phone Number:

[973] 952-6311

Email Address:
todd.warren@orangenjpolice.com

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA:

Marty Mayes

Position/Department:

Director of Public Works

Phone Number:

Email Address:

(973) 952-6081

Email Address:

mmayes@orangenj.gov

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer):

Position/Department:

Derek Dorah

Engineer

Email Address:

Remington & Vernick

Name (Lead Planner/Planning POC):

Position/Department:

Laquana Best

Director of Planning & Economic

Development

Email Address:

lbest@orangenj.gov

Name (Public Works):

Position/Department:

Marty Mayes Director of Public Works

Email Address:

mmayes@orangenj.gov

Name (Emergency Management):

Position/Department:

Bill Bishop Assistant to theOEM Deputy

Coordinator/GIS

Email Address:

bbishop@orangenj.gov

Name (Elected Official/Administrator):

Position/Department:

Business Administrator

Email Address:

chartwyk@orangenj.gov

Christopher Hartwyk

Name (Building Department/Code

Position/Department:

Enforcement):

Ibin Raheem

Construction Official/Building Subcode

Inspector

Email Address:

Iraheem@orangenj.gov

Name (Municipal Clerk):	Position/Department:	
Joyce Lanier	City Clerk	
Email Address:		
jlainer@orangenj.gov		
Name (Other Representative):	Position/Department:	
Email Address:		

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Yours in Service,

Mayor Dwayne D. Warren, Esq. City of Orange Township



BOROUGH OF ROSELAND OFFICE OF THE MAYOR

JAMES R. SPANGO MAYOR

140 EAGLE ROCK AVENUE ROSELAND, NEW JERSEY 07068 P: (973) 403-6023 · F: (973) 403-6031 JSPANGO@ROSELANDNJ.ORG

November 25, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office - Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject: Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate Borough of Roseland, New Jersey

Dear Sheriff Fontoura:

This is to confirm that the Borough of Roseland is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Borough of Roseland:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
- Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).

- Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - o Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas
 - o Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk
 - o Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: John Matheis

Position/Department: Coordinator / Office of Emergency Management

Phone Number: Office 973-403-6840 Cell 973-449-4751

Email Address:jmatheis@roselandnj.org

Alternate/Secondary POC: Bill Collins

Position/Department: Deputy Coordinator / Office of Emergency Management

Phone Number: Office 973-403-6840 Cell 201-247-4891

Email Address: williamcollins3@gmail.com

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Boswell Engineer / Joseph Pomante

Position/Department:Engineer Phone Number: 201-641-0770

Email Address: jpomante@boswellengineering.com

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer): Boswell Engineering/ Joseph

Pomante

Position/Department: Engineer 201-641-0770 Email Address: jpomante@boswellengineering.com

Name (Lead Planner/Planning POC): Same as

Engineer

Position/Department:

Email Address:

Name (Public Works): Christopher Critcheet

Position/Department: Superintendent

Office 973-403-6856

Email Address: ccritchett@rosellandnj.org

Name (Emergency Management): John Matheis

Position/Department: Coordinator

Office 973-403-6840 Cell 973-449-4751 Email Address: jmatheis@roselandnj.org

Name (Elected Official/Administrator): Maureen

Chumacas

Position/Department: Administrator Office 973-403-6884 Cell 973-803-6747 Email Address: mchumacas@roselandnj.org

Name (Building Department/Code

Enforcement): Tom Jacobson

Position/Department: Construction Code Official

Office 973 - 226-5566 Cell 973-650-6907 Email Address: construction@roselandnj.org

Name (Municipal Clerk): Jock Watkins

Position/Department: Boro Clerk Office 973-403-

6029 Cell 862-881-6313

Email Address: jwatkins@roselandnj.org

Name (Other Representative): N/A

Position/Department:

Email Address:

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

James R. Spango

Mayor of Roseland

SOUTH ORANGE VILLAGE
Municipal Offices
76 South Orange Ave
Suite 302
South Orange
Essex County
New Jersey 07079

www.southorange.org P 973.378.7715 F 973.763.0987



RESOLUTION #2025-046

February 24, 2025

RESOLUTION AUTHORIZING EXECUTION OF LETTER OF INTENT TO PARTICIPATE IN THE ESSEX COUNTY HAZARD MITIGATION PLAN/UPDATE AND APPOINTING REPRESENTATIVES TO SERVE AS PLANNING POINT OF CONTACTS

WHEREAS, South Orange Village is a participating municipality in the Essex County Hazard Mitigation Plan and wishes to execute the attached Letter of Intent to Participate to update and continue to participate in the Essex County Hazard Mitigation Plan; and

WHEREAS, South Orange Village is obligated to appoint representatives to serve as Planning Point of Contacts.

NOW THEREFORE, BE IT RESOLVED by the Village Council of South Orange Village that Mayor Sheena Collum, or her designee, is hereby authorized to execute the Letter of Intent to Participate in the Essex County Hazard Mitigation Plan and Update; and

BE IT FURTHER RESOLVED that municipal representatives as designated in the attached Letter of Intent to Participate are hereby appointed to serve as Planning Point of Contacts.

Council Member	Motion	Second	Ayes	Nays	Abstain	Absent
Brown			Χ			
Greenberg			Х			
Haskins		Х	Х			
Hartshorn Hilton						Х
Jones	Х		Χ			
Lewis-Chang			Χ			

CERTIFICATION

I, Ojetti E. Davis, Village Clerk of South Orange Village, County of Essex, State of New Jersey, do hereby certify that this is a true and correct copy of the Resolution adopted by the Village Council at their regular meeting held on Monday, February 24, 2025.

Ojethi E. Davis Village Clerk SOUTH ORANGE VILLAGE Municipal Offices 76 South Orange Ave Suite 302 South Orange

Essex County

New Jersey 07079

OFFICE OF THE MAYOR

scollum@southorange.org P 973.378.7715 ext 2 www.southorange.org P 973.378.7890 F 973.761.4357 Sheena C. Collum Mayor



February 20, 2025

Sergeant Ryan Peter Essex County Sheriff's Office Office Of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update - Authorization and

Letter of Intent to Participate

South Orange Village

Dear Sergeant Peter:

This is to confirm that South Orange Village is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, South Orange Village:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years



- Identification of plans, studies, reports and ordinances addressing hazard risk
- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - o Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - o Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP)
 Repetitive Loss and Severe Repetitive Loss property owners in your
 community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Julie Doran Position/Department: Village

Administrator

Phone Number: 973-378-7715 x2 Email Address:

idoran@southorange.org



Alternate/Secondary POC:

Position/Department:

Scott Egelberg

Office of Emergency Management

Coordinator

Phone Number: 973-378-7715 x2

Email Address:

segelberg@southorange.org

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: David Battaglia

Position/Department: Engineering

Phone Number: 973-378-7715 x3990

Email Address:

engineer@southorange.org

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer): David Battaglia

Position/Department: Engineering

Email Address:

engineer@southorange.org

Name (Lead Planner/Planning POC):

Position/Department: Zoning Official

Greer Patras

Email Address:

zoningofficial@southorange.org



Name (Public Works): Joe Foligno

Position/Department: Director of

Public Works

Email Address:

jfoligno@southorange.org

Position/Department: OEM

Coordinator

Name (Emergency Management):

Scott Egelberg

Email Address:

segelberg@southorange.org

Name (Elected Official/Administrator): Posi

Sheena Collum

Email Address:

scollum@southorange.org

Position/Department:

Mayor

Name (Building Department/Code

Enforcement): Anthony Grenci

Position/Department: Building Official

Email Address:

agrenci@southorange.org

Name (Municipal Clerk): Ojetti Davis Position/Department: Village Clerk

Email Address:

odavis@southorange.org



6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Sheena C. Collum

Mayor

South Orange Village

Sheens C. Culh

MAYOR
CHRISTOPHER H. TAMBURRO
DEPUTY MAYOR
JACK MCEVOY
COUNCILMEMBERS
ALEX ROMAN
CHRISTINE MCGRATH
CYNTHIA L. M. HOLLAND

VERONA COMMUNITY CENTER 880 BLOOMFIELD AVENUE VERONA, NEW JERSEY 07044

TOWNSHIP OF VERONA

COUNTY OF ESSEX, NEW JERSEY



MUNICIPAL BUILDING 600 BLOOMFIELD AVENUE VERONA, NEW JERSEY 07044

> (973) 239-3220 www.VeronaNLorg

TOWNSHIP MANAGER
JOSEPH O. D'ARCO
TOWNSHIP CLERK
JENNIFER KIERNAN
TOWNSHIP ATTORNEY
BRIAN J. ALOIA, ESQ.

DEPARTMENT OF PUBLIC WORKS 10 COMMERCE COURT VERONA, NEW JERSEY 07044

November 25, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update -

Authorization and Letter of Intent to Participate

Township of Verona

Dear Sheriff Fontoura:

This is to confirm that the Township of Verona is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Verona:

Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.

- 1. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These
 people will be responsible for representing their community and assuring that these participation
 expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
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 - Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing hazard risk
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 - Support public outreach efforts in your community which may include:

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- Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
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- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 2. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:
Joel Martin

Phone Number: 201-704-3074

Position/Department: VPD/OEM Coordinator

Email Address:joel.martin@veronapolice.org

Alternate/Secondary POC:

J. Christopher Kiernan

Phone Number: 862-596-0710

Email Address:
Christopher.kiernan@veronapolice.org

3. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department: Engineering

Boswell Engineering Peter Tenkate

Phone Number: 201-424-4740 Email Address: Ptenkate@Boswellengineering.com

4. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer): Position/Department: Township Engineer Peter Tenkate Boswell Engineering

Email Address:

Kevin O'Sullivan

ptenkate@boswellengineering.com

Name (Lead Planner/Planning POC):

Position/Department: Deputy Twp Manager

Administration

Email Address: KOSullivan@veronanj.org

Name (Public Works): Position/Department: Superintendent P.W.

Chuck Molinaro

Email Address: CMolinaro@veronanj.org

Name (Emergency Management): Position/Department: OEM Coordinator/ VPD Joel Martin

Officer

Email Address: Joel.martin@Veronapolice.org

Name (Elected Official/Administrator): Position/Department: Deputy Township Manager

Kevin O'Sullivan

Email Address: Kosullivan@veronanj.org

Name (Building Department/Code Enforcement): Position/Department: Building/Construction

Tom Jacobsen, Construction Official

Email Address: TJacobsen@veronanj.org

Name (Municipal Clerk): Position/Department: Municipal Clerk

Jennifer Kiernan

Email Address: JKiernan@veronanj.org

Name (Other Representative):
Connor McCann

Position/Department: Deputy OEM/Fire
Inspector

Email Address:cmccann@veronanj.org

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Christopher Tamburro, Mayor

Township of Verona

November 25, 2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject: Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate Township of West Caldwell

Dear Sheriff Fontoura:

This is to confirm that the Township of West Caldwell is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of West Caldwell:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - o Structure and facility inventory data
 - o Identification of new development and anticipated development
 - o Identification of hazard risk areas
 - o Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk
 - o Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.
 - Support public outreach efforts in your community which may include:
 - o Providing notices of the planning project on your municipal website with links

- o to a County project website
- o Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
- o Advertising and supporting public meetings in your area
- Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- 3. Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Partnership meetings, and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:
Lawrence Peter

Phone Number:
973-747-9946

Position/Department:
Emergency Management Coordinator

Email Address:
Ipeter@westcaldwell.com

Alternate/Secondary POC:

John Medina

Position/Department:

Deputy Emergency Management Coordinator

Phone Number:

Email Address:

973-226-2302 jmedina@westcaldwell.com

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: Position/Department:

John Medina Construction Official

Phone Number: Email Address:

973-226-2302 jmedina@westcaldwell.com

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the jurisdictional annex. Contact information for the different municipal

representatives are included below.

Name (Engineer): Jeffrey Betz

Position/Department: **Township Engineer**

Email Address:

jeffrey.betz@collierseng.com

Position/Department:

Township Planner / Zoning Officer

Name (Lead Planner/Planning POC): Daniel Bloch

Email Address:

dbloch@westcaldwell.com

Position/Department:

Michael Tempesta

Name (Public Works):

Email Address: mtempesta@westcaldwell.com **Public Works Director**

Name (Emergency Management):

Lawrence Peter

Position/Department:

Emergency Management Coordinator

Email Address:

lpeter@westcaldwell.com

Name (Elected Official/Administrator):

Joseph Tempesta, Jr.

Position/Department:

Mayor

Email Address:

jtempesta@westcaldwell.com

Name (Building Department/Code

Enforcement):

John Medina

Email Address:

Position/Department:

Construction Official

Name (Municipal Clerk): Joann DeBlasis

jmedina@westcaldwell.com

Position/Department:

Township Clerk

Email Address:

jdeblasis@westcaldwell.com

Name (Other Representative):

Nikole Baltycki

Position/Department:

Township Administrator/CFO

Email Address:

nbaltycki@westcaldwell.com

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Joseph Tempesta, Jr., Mayor Township of West Caldwell



TOWNSHIP OF WEST ORANGE

66 MAIN STREET, WEST ORANGE, N.J. 07052

OFFICE OF THE MAYOR

SUSAN McCARTNEY

Mayor

Tel: (973) 325-4100 Fax: (973) 669-0238

Email: Mayor@westorange.org

smccartney@westorange.org

11/26/2024

Sheriff Armando B. Fontoura Essex County Sheriff's Office Office of Emergency Management 560 Northfield Avenue West Orange, NJ 07052

Subject:

Essex County Hazard Mitigation Plan Update – Authorization and Letter of Intent to Participate Township of West Orange

Dear Sheriff Fontoura:

This is to confirm that the Township of West Orange is committed to participating in the Essex County Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of West Orange:

- 1. Authorizes Essex County Sheriff's Office and the Essex County Hazard Mitigation Steering Committee ("Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
- 2. Agrees to meet the minimum requirements of municipal participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Letter of Intent to Participate" letter to Essex County Sheriff's Office, attention: Sergeant Ryan Peter.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below.
 These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at Planning Partnership meetings (~ 3 meetings over 6 months, including a Kick-Off Meeting and a Mitigation Strategy Workshop).
 - Provide data and information about your community as requested by the Steering Committee or the contract consultant, including:
 - Structure and facility inventory data
 - o Identification of new development and anticipated development
 - Identification of hazard risk areas
 - Identification of hazard events and losses that have impacted your community in the last five years
 - o Identification of plans, studies, reports and ordinances addressing hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions.

- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on your municipal website with links to a County project website
 - Providing notice of the planning project, the availability of Plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - o Advertising and supporting public meetings in your area
 - Supporting outreach to National Flood Insurance Program (NFIP) Repetitive Loss and Severe Repetitive Loss property owners in your community.
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Completing data and information collection survey forms in a timely manner.
- Identify specific mitigation actions to address each of the natural hazards posing significant [or high or medium] risk to your community.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Review draft Plan sections when requested and provide comment and input as appropriate.
- Adopt the Plan by resolution of their governing body after FEMA conditional approval.
- Periodically provide the Steering Committee with reports of municipal staff and volunteer labor spent on the planning process.
- Assigns the following persons to be the Points of Contact for our jurisdiction. We understand that
 these POCs are responsible for assuring municipal representation at Planning Partnership meetings,
 and assuring that the other minimum requirements of jurisdictional participation, as detailed in the
 Planning Partner Expectations above, are met.

Primary POC: ZAYIBETH CARBALLO

Position/Department: MUNICIPAL ENGINEER

Phone Number: 973-325-4160

Email Address: ZCARBALLO@WESTORANGE.ORG

Alternate/Secondary POC: LOU REYNOLDS

Position/Department: DIRECTOR. PUBLIC WORKS

Phone Number: 973-325-4067

Email Address: LREYNOLDS@WESTORANGE.ORG

4. Our designated local Floodplain Administrator (FPA) under the NFIP is:

Name of NFIP FPA: ZAYIBETH CARBALLO
Position/Department: MUNICIPAL ENGINEER

Phone Number: 973-325-4160
Email Address: ZCARBALLO@WESTORANGE.ORG

5. Meet participation expectations by including representatives from our community in the planning process. They will be invited to attend meetings, provide required information, and review the

jurisdictional annex. Contact information for the different municipal representatives are included below.

Name (Engineer): ZAYIBETH CARBALLO Position/Department: MUNICIPAL ENGINEER

Email Address: ZCARBALLO@WESTORANGE.ORG

Name (Lead Planner/Planning POC): GENIECE

GARY-ADAMS

Position/Department: PLANNING/ZONING

Email Address:

ZONINGOFFICIAL@WESTORANGE.ORG

Name (Public Works): LOU REYNOLDS

Position/Department: DIRECTOR, PUBLIC WORKS

Email Address: LREYNOLDS@WESTORANGE.ORG

Name (Emergency Management): NICK

ALLEGRINO

Position/Department: EMC

Email Address: NICKALLEGRINO@WOPD.ORG

Name (Elected Official/Administrator): SUSAN

McCARTNEY

Position/Department: MAYOR

Email Address: MAYOR@WESTORANGE.ORG

Name (Building Department/Code Enforcement):

Position/Department: BUILDING DEPARTMENT

TOM BIONDI

Email Address: TBIONDI@WESTORANGE.ORG

Name (Municipal Clerk): KAREN CARNEVALE

Position/Department: MUNICIPAL CLERK

Email Address:

KCARNEVALE@WESTORANGE.ORG

6. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Susan M. McCartney

Mayor, Township of West Orange





APPENDIX C: MEETING DOCUMENTATION

Appendix C includes meeting agendas, sign-in sheets, and meeting notes (where applicable and available) for meetings convened during the development of the Essex County HMP update.



MEETING AGENDA

Essex County Hazard Mitigation Plan Project Kick-Off with Planning Partnership December 4, 2024; 10:00 – 11:00 a.m.

Location: 560 Northfield Avenue, West Orange, NJ

- 1. Introductions
- 2. Hazard Mitigation Planning Overview
 - a. What is a Hazard Mitigation Plan
 - b. Organization of the Planning Process
 - i. Core Planning Team
 - ii. Steering Committee
 - iii. Planning Partnership
- 3. Hazards of Concern
- 4. Public Outreach Strategy
- 5. Jurisdictional Worksheets
 - a. Capabilities
 - b. Floodplain Administration
 - c. New Development
 - d. Previous Events
 - e. Previous Mitigation Actions
- 6. What's Next
- 7. Questions and Discussion







Introductions



What is Hazard Mitigation?



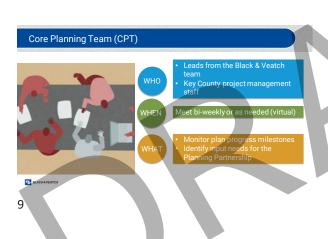
A Local Hazard Mitigation
Plan is created in
compliance with the
Disaster Mitigation Act
(DMA) of 2000 to assess
and mitigate the impacts
of natural hazards on a
planning area.

What's a Hazard Mitigation Plan?

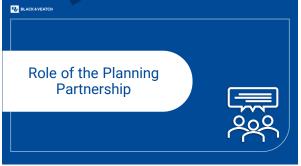
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Natural Hazard Selection

Disease Outbreak - Flood - Geological Hazards - Weather - Weather - Wildfre - Earthquake - Severe Weather - Wildfre - W



Public Outreach Strategy

Hazard mitigation webpage on the Sheriff Department's website
Press release
Social media posts notifying the public of opportunities to participate
Translated materials
Figers
Local television
Lawn signs
Community events
Natural hazard awareness survey
Public meetings
Public comment period during the draft plan review

Document how you share information and conduct outreach and send to B&V!

Document how you share information and conduct outreach and send to B&V ■ BLACK AVENTOR

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Public Outreach Strategy: Socially Vulnerable Populations

FEMA's new guidance emphasizes outreach to socially vulnerable and underserved populations. Jurisdictions must identify what socially vulnerable and underserved populations exist in Essex County to target for outreach.

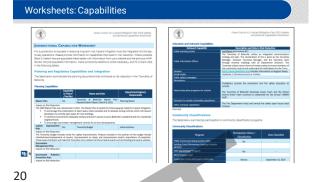
• Age
• Over 65 years of age
• Under 65 years of age
• Low Income
• Powerty threshold
• Cost of living threshold
• Cost of living threshold
• Non-English speakers
• Physical or Mental Disabilities
• Reliance on Public Transportation

What other socially vulnerable populations or underserved communities can be targeted in Essex County and your community?



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Worksheets: Floodplain Administration

| Fig. | State | Institute | Institute



Worksheets: Previous Actions

| Including Action | Including | Inc



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Points of Contact

Essex County Sheriff's Office
Sergeant Ryan Peter
973-324-9750 | rpeter@essexsheriff.com

Black & Veatch Project Manager
Alison Miskiman CFM, GISP
201-977-4432 | MiskimanAM@bv.com

Black & Veatch Lead Planner
Chris Huch CFM
201-225-8077 | HuchJrC@bv.com

MEETING SUMMARY

Essex County Hazard Mitigation Plan Project Kick-Off with Planning Partnership December 4, 2024; 10:00 – 11:00 a.m.

Location: 560 Northfield Avenue, West Orange, NJ

Agenda Item and Summary

#	Agenda Item	Summary of Discussion and Decision Points
1.	Introductions and Attendance	See sign-in sheet
2.	Hazard Mitigation Planning Overview	An overview was provided on hazard mitigation and the importance of updating the current plan set to expire in June 2025. An adopted and current hazard mitigation plan is needed to access FEMA mitigation funding. The project schedule and milestones were reviewed. The Core Planning Team, Steering Committee, and Planning Partnership composition and roles were presented, and frequency of meetings.
3.	Hazards of Concern	The new FEMA guidance requirements were discussed including alignment with the National Risk Index, State Hazard Mitigation Plan, inclusion of impacts from climate change, and socially vulnerable populations. The hazards of concern will be limited to the natural hazards documented in the 2020 Essex County plan with the non-natural hazards moved to an appendix with no risk assessment.
4.	Public Outreach Strategy	The methods for public outreach that will be implemented for this plan were reviewed inclusive of leveraging the County's existing





		hazard mitigation plan website; press releases; social media posts; flyers and lawn signs in English, Spanish, and Portuguese; online surveys for the public, stakeholders, and neighboring communities; public meetings and a public comment period during plan review. Each community will support the public outreach strategy by implementing one item; materials forthcoming.
5.	Jurisdictional Worksheets	Each jurisdiction will be responsible for completing and returning the following worksheets to Black & Veatch by January 8 th
	Capabilities	Document planning, regulatory, staffing, and programmatic capabilities supporting hazard mitigation and risk reduction.
	Floodplain Administration	Describe floodprone areas and NFIP floodplain administration.
	New Development	Document major developments that have taken place since January 1, 2020 or are anticipated in the next five years.
	Previous Events	Document impactful hazard events that have taken place since January 1, 2020.
	Previous Mitigation Actions	Report out on progress of previous mitigation actions identified in 2020 HMP.
6.	What's Next	 Schedule annex support meetings with Black & Veatch staff, before holiday break. Support public outreach and send photographs to Black & Veatch. Jurisdictional worksheets due January 8, 2025 Mandatory Risk Assessment and Mitigation Strategy meeting on February 18, 2025
7.	Questions and Discussion	





Essex County Hazard Mitigation Plan

Meeting: Project Kick-Off with Planning Partnership

December 4, 2024; 10:00 – 11:00 a.m.

John Budelly	KS CASENDINO	Genard Conso	Dua Santonzalo	Will Cossidz	RARIZ GUILIANO	Joel Markin	BARRY BUT	Tin 645parin	Mast Cash	nomes Icolan	Eugasoth Collins	CONNOR MCCANN	Will Dasava	Name
NOKEM NEWA		Balhoilh	NV416	Northan	CARDWELL	Verona	SEOW MAL	Foundard	Esser File	Bloom Rich	SAST OXANCER	VERONA	£650	Jurisdiction
MOCPAYOCA COM	11. ORO	022	Other Courd of a Lic	Coodinate	Don Immilian	Cocket in Am	and of the same	OEM DOSTY	Coord	OEM CON	Karsi Dinoeron	OEM	SWant	Title
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Essex County Hazard Mitigation Plan

Meeting: Project Kick-Off with Planning Partnership

December 4, 2024; 10:00 – 11:00 a.m.

John Brown	Tom Outarboridse	MICHAM MULLIGAR	Jim Wen	STO LUKOWSK	Van Junouan	John MOTHERS	THOMAS OCTY	Marly Azzopardi	STA CORAL	Nick Allegrino	John Mealown	National Office	KDacidu Illians	Michael Coas	James Simpson	LARRY Peler	Name
tryington	Hrvirger	ACUNATON	TREX FOIS	LIV/m6ston	Cedar Group	ROS KLANH	MILLBURN	Millborn	07	West Orange	Belleville oer	F Ower OF	6 Diange Other	Montday Och	ESSEX CEM	west coldwell	Jurisdiction
OEM	Oth	Man	OFM	OES	OFA	430	DPW	OEM-Deputy	RACES COORDINATE	OEM	OKN	Dep of loon	Coordinator	OEM/EMS	EMS COUCH.	OKM	Title
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Essex County Hazard Mitigation Plan

Meeting: Project Kick-Off with Planning Partnership

December 4, 2024; 10:00 – 11:00 a.m.

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South Orange North C-schiell North Caldwell ECSO-OEM		South Orman South Orman	5 2	Jurisdiction SO OBNS ECSO DEM
Detective Detective	DOEN	Deposer Coord.	DOROINATOR	Title Willow Det.
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Essex County Hazard Mitigation Plan

Meeting: Project Kick-Off with Planning Partnership

December 4, 2024; 10:00 – 11:00 a.m.

Alexanda McElan	Carmine Davin.	LANK COLLAND	Sherift ton tours	2	Minkhreema	Name
East Olange	montdair	OFZO WEZZ	£(50-7	V JOEN C	yes was and t	Jurisdiction
Mincipal Munner	Dep Coursinan	Cocod min	1	567	EN Holand	Title
cuncelemberstorage n).or	C Davino 3 R @ montelait ni uso. or a	FIRE OFFICIAL O CONTINUEL -NET CON	6	JOHUATHAN LOPUSKI @NOSDEON	Mark Drsc.	Email



Essex County Hazard Mitigation Plan

Meeting: Project Kick-Off with Planning Partnership

December 4, 2024; 10:00 – 11:00 a.m.

			Julie Doran	Greer Patras	Name
			South Orange	Sate orange	Jurisdiction
			Biseros Admin	Ranner	Title
			Sami Jodoran Co i "	Spanas Co Soctionary	Email



MEETING AGENDA

Essex County Hazard Mitigation Plan Project Kick-Off with Steering Committee December 5, 2024; 1:30 – 2:30 p.m.

Microsoft Teams: <u>Join the meeting now</u> Meeting ID: 226 671 985 381; Passcode: tHhPB2 or Dial in by phone 913-278-079; Phone conference ID: 402 924 617#

- 1. Introductions
- 2. Hazard Mitigation Planning Overview
 - a. What is a Hazard Mitigation Plan
 - b. Organization of the Planning Process
 - i. Core Planning Team
 - ii. Steering Committee
 - iii. Planning Partnership
- 3. Hazards of Concern
- 4. Public Outreach Strategy
- 5. Goals and Objectives Review and Update
- 6. What's Next
- 7. Questions and Discussion











What is Hazard Mitigation?

Sustained long-term and short-term actions taken to protect people and prevent property damage and service interruptions caused by natural disasters.

A Local Hazard Mitigation
Plan is created in
compliance with the
Disaster Mitigation Act
(DMA) of 2000 to assess
and mitigate the impacts
of natural hazards on a
planning area.

What's a Hazard Mitigation Plan?

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Core Planning Team (CPT)

**Leads from the Black & Veatch team*
**Expountly project management staff*

WHEN

**Meet bi-weekly or as needed (virtual)

**Monitor plan prograss milestones Identify input needs for the Planning Partnership

Planning Partnership



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Hazard Mitigation Planning Partnership (PP)

WHO Representatives of each participating jurisdiction

WHEN 3 to 4 meetings through the planning process

WHAT Develop jurisdictional annex, conduct outreach, and contribute to overall planning process



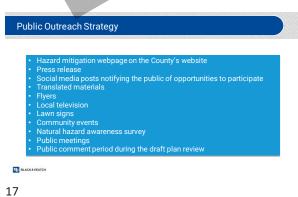
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Cround Rules Por Decareor Chairperson Vice Chairperson Alternates Quorum Natural Hazard Selection Natural Hazard Selection Possesse Outbreak Proof Possesse Outbreak Possesse Outbreak Possesse Outbreak Possesse Outbreak Possesse Outbreak Possesse Outbreak Posses





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Goals and Objectives

- - Objective 1.2: Reduce the impacts of hazards on people, property, and vulnerable populations Objective 1.3: Integrate the hazard mitigation plan into existing county and local planning, building, codes, ordinances, and

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Goals and Objectives

- Goal 2: Protect Property

 Objective 2.1: Protect and increase resilience of critical facilities and lifelines to reduce disruption of essential activities during and after a

 - hazard event.
 Objective 2.2: Reduce repetitive and severe repetitive losses
 Objective 2.3: Protect environmental resources that serve a natural
 - Objective 2.4: Encourage cost-effective and environmentally-sound development and land use by incorporating green infrastructure

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Goals and Objectives

- Goal 3: Increase public preparedness and awareness
 Objective 3.1: Enhance and implement public education and

 - Objective 3.1: Enhance and implement public education and outreach programs to increase awareness of hazard risks. Objective 3.2: Improve hazard information databases and maps and increase accessibility to those resources. Objective 3.3: Provide stakeholder training on mitigation and resilience-related topics to support the identification and implementation of projects and access to funding. Objective 3.4: Improve education of public officials, stakeholders, and the general public regarding the impacts of future conditions, sea level rise, and climate change on people, property, transportation assets, and the economy. assets, and the economy

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Goals and Objectives

- Goal 4: Increase the understanding and awareness of risks from hazards
 Objective 4.1: Review and incorporate updated hazard data into the
 County Hazard Mitigation Plan and other county and local planning
 - Objective 4.2: Increase support for the development of local
 - Objective 4.3: Incorporate new State and FEMA guidance, rules and regulations into the Plan Objective 4.4: Strengthen understanding of, and adaptation to, a

BLACK & VEATCH

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Goals and Objectives

- Goal 5: Enhance County and local mitigation capabilities to reduce
 - Objective 5.1: Implement and monitor the progress of on-going mitigation activities within the county
 Objective 5.2: Encourage and support additional related training and

 - Objective 5.3: Encourage the formation of partnerships to leverage
 - and share mitigation resources
 Objective 5.4: Integrate the County Hazard Mitigation Plan with other
 County, regional and local planning initiatives

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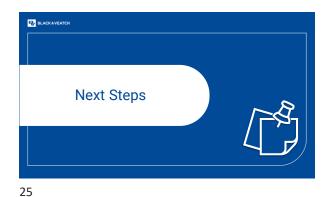
Goals and Objectives

- - Objective 6.1: Ensure continuity of operations of essential county government services through training, planning and implementation of mitigation strategies
 - of mingation strategies

 Objective 6.2: Increase resiliency by facilitating rapid disaster recovery ensuring that post-disaster efforts incorporate mitigation and adaptation strategies to minimize future losses.

 Objective 6.3: Support and encourage the implementation of alternative and sustainable energy sources

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Questions ?

Points of Contact

Essex County Sheriff's Office
Sergeart Ryan Peter
973-324-9750 | rpeter@essexsheriff.com

Black & Veatch Project Manager
Alison Miskiman, CFM, GISP
201-977-4432 | MiskimanAM@bv.com

Black & Veatch Lead Planner
Chris Huch, CFM
201-225-8077 | HuchJrC@bv.com

MEETING SUMMARY

Essex County Hazard Mitigation Plan Project Kick-Off with Steering Committee December 5, 2024; 1:30 – 2:30 p.m.

Microsoft Teams: <u>Join the meeting now</u> Meeting ID: 226 671 985 381; Passcode: tHhPB2 or Dial in by phone 913-278-079; Phone conference ID: 402 924 617#

Agenda Item and Summary

#	Agenda Item	Summary of Discussion and Decision Points
1.	Introductions and Attendance	Each attendee introduced themselves and shared if they were involved in Essex County's previous hazard mitigation plan. Refer to page 4 for attendance.
2.	Hazard Mitigation Planning Overview • What is a Hazard Mitigation Plan • Organization of the Planning Process • Core Planning Team • Steering Committee • Planning Partnership	An overview was provided on hazard mitigation and the importance of updating the current plan set to expire in June 2025. The project schedule and milestones were reviewed. The Core Planning Team, Steering Committee, and Planning Partnership composition and roles were presented, and frequency of meetings. Essex County Sergeant Ryan Peter will chair the Steering Committee. Alternates to meetings will be allowed.
3.	Natural Hazards of Concern	The new FEMA guidance requirements were discussed including alignment with the National Risk Index, State Hazard Mitigation Plan, inclusion of impacts from climate change, and socially vulnerable populations. The hazards of concern will be limited to the natural hazards documented in the 2020 Essex County plan with the non-natural hazards moved to an appendix with no risk assessment. Black & Veatch will send the disease outbreak list from the 2020 plan to





#	Agenda Item	Summary of Discussion and Decision Points
		Essex County Public Health for input on diseases to be included in the plan update.
4.	Public Outreach Strategy	The methods for public outreach that will be implemented for this plan were reviewed inclusive of leveraging the County's existing hazard mitigation plan website; press releases; social media posts; flyers and lawn signs in English, Spanish, and Portuguese; online surveys for the public, stakeholders, and neighboring communities; public meetings and a public comment period during plan review.
		Carrie Martin recommended the Ironbound Community Corporation and South Ward Environmental Alliance be engaged in Newark; they have expressed interest in environmental justice and hazard mitigation. Black & Veatch will coordinate with Carrie Martin on this engagement.
5.	Goals and Objectives Review and Update	 The 2020 plan goals and objectives were reviewed. All goals and objectives were agreed to remain in the 2025 with the following updates: 1. Modify Goal 4 to align with the State HMP as follows: Develop and maintain an understanding of increased risk from climate change impacts to natural hazards. 2. Move 2020 Essex County HMP Objective 3.4 under the updated Goal 4: Improve education of public officials, stakeholders, and the general public regarding the impacts of future conditions, sea level rise, and climate change on people, property, transportation assets, and the economy. 3. Add new Goal 7 and all new objectives to align with the State HMP: Goal 7: Reduce the risk of natural hazards for socially vulnerable populations and underserved communities



#	Agenda Item	Summary of Discussion and Decision Points
		7.1: Work with communities to identify the impacts of hazards on socially vulnerable populations 7.2: Ensure hazard mitigation planning includes and is responsive to the entire community 7.3: Direct resources to build capability in lower-resourced communities
6.	What's Next	A summary of the upcoming meetings was presented including the mandatory Risk Assessment and Mitigation Strategy meeting for both the Steering Committee and Planning Partnership on February 18, 2025; and annex worksheets due January 8, 2025.
7.	Questions and Discussion	Meeting concluded at 2:20pm





Steering Committee Attendees

ssex County
⊠Mark Steinberg, OEM
☑ Denise Teague, OEM
⊠ Ryan Peter, OEM
☑ Frank Del Gaudio, Department of Health & Rehabilitation
☑ Maya Harlow, Department of Public Health
☐ Carl Hunte, Chief Information Officer, Assistant County Administrator
□ Luke Yee, Systems Analyst attended on behalf of Carl
☑ James Simpson, EMS Coordinator
⊠ Richard Fernandez, Principal Engineer
⊠ Sanjeev Varghese, County Engineer
☑ Samantha Martinez-Mendoza, NJLINCS Coordinator, New Jersey Local Information Network
Communications System (NJLINCS)
□ Gerry Grande, Roads and Bridges
☐ Lauren T. Agnew, Public Information Officer
☐ Daniel Salvante, Director, Parks Department
☐ Anibal Ramos, Department of Citizen Services
□ Robert D. Jackson, County Administrator
Municipal
□ Ralph Casendino, Lieutenant/OEM Coordinator, Fairfield
☑ Robert Echavarria, Fire Chief, Township of Millburn
□ Juba Dowdell, OEM Coordinator, City of Newark
☑ Christopher Mullin, Fire Chief, Township of Livingston
☑ Joel Martin, OEM Coordinator, Township of Verona
State
☑ Jordan Siegel, Assistant Unit Head, NJOEM
☑ Alyssa Meredith, Mitigation Planner, NJOEM
☑ Chris Testa, Mitigation Unit, NJOEM
FEMA Magan Wan Blanning FEMA Region 2
□ Megan Wren, Planning, FEMA Region 2
Stakeholders
☑ Ashlyn Spector, Senior Research Specialist, Rutgers University-Bloustein
☑ Carrie Martin, Environmental Sustainability Planner, New Jersey Institute of Technology, Center for
Community Systems
☐ Chris Obropta, Specialist, Rutgers Cooperative Extension Water Resources Program
☐ Jan Zientek, Department Head, Rutgers Cooperative Extension
☐ Janet Rekeius, District Manager, Hudson Essex Passaic Soil Conservation District
☐ Sanet Rekelas, District Manager, Fladson Essex Fladsale Son Sonservation District ☐ Essex County Community Organizations Active in Disaster
☐ Patty Spango, Superintendent of Elections and Commissioner of Registration, League of Woman
Joters of the Montolair Area





☐ NY/NJ Baykeeper

Black & Veatch

- ⋈ Alison Miskiman
- □ Chris Huch





MEETING AGENDA

Essex County Hazard Mitigation Plan Stakeholder Engagement Meeting February 4, 2025; 10:00 – 11:00 a.m.

Microsoft Teams: Join the meeting now Meeting ID: 233 572 302 348; Passcode: na2dW6vY or

Dial in by phone: +1 913-278-0791, Phone conference ID: 43964446#

- 1. Introductions and Attendance
- 2. Hazard Mitigation Planning Overview
- 3. Project Schedule & Milestones
- 4. Organization of the Planning Process
- 5. Hazards of Concern
- 6. Public Outreach
- 7. Goals & Objectives
- 8. Mitigation Actions
- 9. Discussion of Problem Areas and Potential Actions
- 10. Next Steps
- 11. Points of Contact















A Local Hazard Mitigation
Plan is created in
compliance with the
Disaster Mitigation Act
(DMA) of 2000 to assess
and mitigate the impacts
of natural hazards on a
planning area.

What's a Hazard Mitigation Plan?

6

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5





Organization of the Planning Process

Core Planning Team

• Leads from the Black & Veatch team and key County Project management staff
• Monitors plan progress milestones

Steering Committee

• Core Planning Team and key County and stakeholder representatives
• Identifies input needs for the Planning Partnership

• Representatives of each participating jurisdiction
• Responsible for input to the plan, supporting outreach, and development of jurisdictional annexes



Natural Hazard Selection

| Disease Outbreak | Oeological Hazards | Severe Weather | Severe



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Public Outreach

- County and Municipal Websites
- Social Media Announcements
- Brochures, Electronic Signs, Lawn Signs
- Surveying
 Public Survey
 Stakeholder Survey
 - Neighboring Community Survey
- Public Meeting
 February 18th at the Essex County Emergency Operations Center
 Public Review Period
- - · Draft Plan will be posted for 30 days (estimated to be posted at the end of this month) with opportunities for comments and suggested edits

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Public and Stakeholder Engagement - Please support



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Goals and Objectives

Mitigation Action Types

- Goal 1: Protect Life
 Goal 2: Protect Property
 Goal 3: Increase Public Preparedness and Awareness
- Goal 4: Develop and Maintain an Understanding of Increased Risk from Climate Change Impacts to Natural Hazards
 Goal 5: Enhance County and Local Mitigation Capabilities to
- Reduce Hazard Vulnerabilities
 Goal 6: Support Continuity of Operations Pre-, During, and Post-Hazard Events
 Goal 7: Reduce the Risk of Natural Hazards for Socially
- Vulnerable Populations and Underserved Communities

16



Public Education and Awareness

18

Example 1: Substantial Damage Management Plans

als in NRP-participating communities are responsible for regulating all development in SFHAs by issuing ts and enforcing local floodplain requirements, including Substantial Damage, for the repairs of gode bublings. After any disaster event, they must: eletermine where the damage occurred within the community and if the damaged structures are in an GLA. SFHA. Determine what to use for "market value" and cost to repair, uniformly applying regulations will protect against liability and promote equitable administration. Determine if repairing bus improving the damaged structure equals or exceeds 50% of the structure's pre-damage value. Require permits for floodplain development.

Addresses any hazards that can result in structural damage to a home

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Example 2: Watershed Improvement Plans

improvements can be made to reduce their contribution.

The purpose of the Will is to identify apportunities to improve water quality, reduce MS4 contribution of goliularists to switchedoes with impairments and fixed inflamium Daily Loads (TMDsL), and to address stormwater flooding to protect human health and safety, and the environment.

The municipality will develop a Wildershed improvement Plan. The plan will be organized in three phases.

The municipality will develop a Wildershed and provement Plan. The plan will be organized in three phases.

The municipality will develop a Wildershed improvement plan in the first phase to determine what potential point provided in the plan i Cost-effective projects identified in the WIP will be implemented.

Addresses any flooding and hazards that may impact or be impacted by

Attendees

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- · Essex County Division of Community Health
- Port Authority of New York and New Jersey
- · NJIT

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Please help us identify problems/challenges/impacts caused by natural hazards in Essex County and any potential solutions you have in mind that can eliminate or less hazard impacts.

If you have information that can support another agency's ideas, please raise

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What's Next

Public Meeting:
February 18, 2025. 1:00 pm at the Essex County Emergency Operations Center

Public Review Period:

- Draft plan will be posted on the County OEM website for review

23 24

Points of Contact Essex County Sheriff's Office Sergeant Ryan Peter 973-324-9750 | rpeter@essexsheriff.com Black & Veatch Project Manager Alison Miskiman, CFM, GISP 201-977-4432 | MiskimanAM@bv.com Black & Veatch Lead Planner Chris Huch, CFM 201-225-8077 | HuchJrC@bv.com

MEETING SUMMARY

Essex County Hazard Mitigation Plan Stakeholder Engagement Meeting February 4, 2025; 10:00 – 11:00 a.m.

Microsoft Teams: Join the meeting now Meeting ID: 233 572 302 348; Passcode: na2dW6vY or

Dial in by phone: +1 913-278-0791, Phone conference ID: 43964446#

Agenda Item and Summary

#	Agenda Item	Summary of Discussion and Decision Points
	<u> </u>	-
1.	Introductions and Attendance	Essex County Sheriff's Department welcomed the attendees.
		Each meeting participant introduced themselves via audio and the Teams chat:
		Chris Huch and Alison Miskiman – Black & Veatch
		Mark Steinberg – Essex County OEM
		Elizabeth Stamler - Procurement Specialist, Union County
		Joanne Beckerich - Maplewood Township; part of Sustainable Maplewood Committee, CERT, and Emergency Management Committee
		Alyssa Meredith – NJOEM Mitigation Unit
		Constance Lawrence – PANYNY Newark Airport
		Carrie Martin – NJIT Tech Assistance for Resiliency and Tech Assistance for Brownfield Communities
		Samantha Martinez-Mendoza – NJLINCS Coordinator/Emergency Preparedness- Essex County Health





		Angela Wong – PANYNJ Resilient and Sustainable Engineering Team
		Tiffany Chapman – PANYNJ Senior Manager, Strategic Preparedness
2.	Hazard Mitigation Planning Overview	Review of what a hazard mitigation plan is, the importance of a robust planning process, and benefits of keeping a plan active
3.	Project Schedule & Milestones	Schedule review and presentation of upcoming meetings and milestones
4.	Organization of the Planning Process	Discussion of the core planning team, steering committee, and planning partners
5.	Hazards of Concern	Review of the natural hazards of concern and socially vulnerable populations
6.	Public Outreach	Overview presented of the public engagement to date; and opportunities for stakeholders to continue to be involved in the planning process
7.	Goals & Objectives	Presentation of the seven (7) updated goals of the Essex County Hazard Mitigation Plan
8.	Mitigation Actions	Mitigation action types reviewed (prevention, property protection, public education and awareness, and natural resources protection)
		Example of mitigation actions that Essex County communities are including in their annex: 1) Substantial Damage Management Plans; 2) Watershed Improvement Plans
9.	Discussion: Problem Areas and Potential Actions	Attendees participated in the discussion to identify problems/challenges/impacts caused by natural hazards in Essex County and any potential solutions in mind that can eliminate or less hazard impacts.
		Samantha Martinez-Mendoza: Need/Problem: Increased risk communication and backup plan when there are power outages during hazard events and public health threats need to be communicated rapidly.



Potential Solutions: Additional tabletop exercises with stakeholders where flooding impacts transportation lines if no access to Wifi or electricity; use stakeholder groups to increase communication and awareness to public; everyone on the same command system.

Problem: Emerging threats like Monkey Pox and Avian Flu (which has been detected in waterways in the County). There is a need to better understand strengths and weaknesses.

Potential Solution 1: A Monkey Pox tabletop exercise took place in December 2024 with local hospitals, Essex County OEM, and other stakeholders at the County Correctional Facility; if inmate with a positive case and human transmission; increased communication needed and increased capacity.

Potential Solution 2: In conversation with NJDOH and County health officers, track where live poultry markets (Newark has the most) are located and continue to closely monitor. Develop an avian flu tabletop exercise and use results to increase capabilities and improve health education on what it is, role that stakeholders play if positive case detected in the area.

Tiffany Chapman, PANYNJ
Problem: Significant flooding at Newark
Airport from Hurricane Ida
Potential Solution: Airport redevelopment
planning considers natural hazards, builds
mitigation measures into improvements, and
works with engineering and risk assessment
partners. New infrastructure is developed to
the Climate Resiliency Guidelines that
incorporates resiliency; a risk assessment is
underway across facilities that will identify
additional mitigation actions





Problem: Port Newark and Newark Airport are impacted by natural hazard events Potential Solution: PANYNJ is currently conducting risk assessments for each facility to identify additional mitigation actions to increase resilience.

Happy to participate in future tabletop discussions in the future (Office of Medical Services) – connecting PANYNJ with Essex County Health with contact information as a result of this meeting

Carrie Martin - NJIT

Problem: Floodwaters mobilize contamination from brownfields leading to environmental and public health impacts Potential Solution: Actions identified in the Northeast ResilientNJ plan that apply to City of Newark and can be referenced.

Problem: Stormwater and urban heat island effects exacerbated in urban environments Potential Solution: 2024 had a summit to review intersection of resilience and brownfields – replicate what occurred in Union County in Essex County – urban forestry efforts in City of Elizabeth to trap stormwater and tree canopy to assist with heat island impact; Essex County is updating their open space plan – layer in urban forestry/brownfields/heat. NJ Dept of Ag and NJDEP funding may be available.

Problem:

Ironbound Community Corporation is very concerned about floodwaters moving contamination from brownfield sites Potential Solution: Public awareness of contaminated floodwater.

Problem: Redevelopment in West Orange that are brownfield sites – see above





10. What's Next	Potential Solution: NJDEP has brownfield development program MOU to focus state efforts on remediating; while redevelopment in West Orange, integrate green infrastructure and other resiliency efforts. Union County Problem: Wildfire is increased threat and discussion as a result of California events; Potential Solution: County to county discussions regarding shared resources to support for future events. Incorporate information into the Essex County wildfire planning efforts. Joanne Beckerich – Maplewood Township Problem: Main library sits on the river; during Hurricane Ida resulted in 8 feet of water in the basement Potential Solution: Redesigning for flood resilience and moving critical mechanicals to the roof; will include a green roof; challenge is maintaining the green roof. Problem: Public education is always a continued need Potential Solution: Increase public education about hazards Problem: Increased connection to socially vulnerable populations Potential Solution: Public health department has a list of most vulnerable populations, put in place during Covid due to lack of technology in the home. Continue to add to this list; have a senior advisory committee to address transportation issues and contact seniors when there is an event Details shared on next opportunities for
	stakeholder engagement: Next public meeting is in person on February 18 at 1pm at the County EOC





		Public review period at end of February/early March on Essex County OEM website
11.	Contact Information	Contact information shared: Essex County Sheriff's Office – Sgt Ryan Peter Black & Veatch – Alison Miskiman and Chris Huch





MEETING AGENDA

Essex County Hazard Mitigation Plan Planning Partnership Risk Assessment Meeting February 18, 2025; 9:30–10:30 a.m.

- 1. Welcome
- 2. Hazard Mitigation Planning Review
- 3. Review Risk Assessment Results
- 4. Capability Effectiveness
- 5. Hazard Rankings
- 6. Review Municipal Hazard Rankings
- 7. Break













Sustained long-term and short-term actions taken to protect people and prevent property damage and service interruptions caused by natural disasters.

What's a Hazard Mitigation Plan?

A Local Hazard Mitigation Plan is created in compliance with the Disaster Mitigation Act (DMA) of 2000 to assess and mitigate the impacts of natural hazards on a planning area.

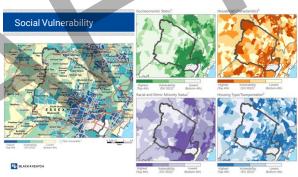
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Disease Outbreak

Qualitative Assessment

Arboviruses

WNV
Encephalitis
Respiratory Illnesses
Covid
Avian Flu
Ebola
Measles
Tuberculosis
Hepatitis A
Monkey Pox

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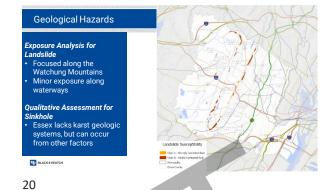
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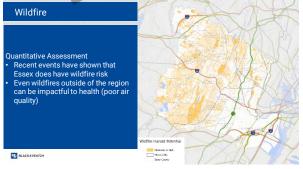








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Capability Effectiveness

- Weak: Weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.
- Moderate: Plans, policies, codes/ordinances in place and meet minimum requirements; mitigation strategies identified but not implemented on a widespread scale; county/jurisdiction can recover but needs outside resources; moderate county/Jurisdiction capabilities.
- Strong: Plans, policies, codes/ordinances in place and exceed minimum requirements; mitigation/protective measures in place; county/jurisdiction has ability to recover quickly because resources are readily available, and capabilities are high.

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Hazard Ranking

Category		Degree of Risk			Assigned
		Level	Criteria	Index Value	Weighting Factor
Probability		Unlikely	A hazard event is not likely to occur or is unlikely to occur with less than a 1% annual chance probability.	0	30%
		Rare	Between 1 and 10% annual probability of a hazard event occurring.	2	
		Occasional	Between 10 and 100% annual probability of a hazard event occurring.	3	
		Frequent	100% annual probability, a hazard event may occur multiple times per year.	4	
(Sum of all 3)	m (Numeric	Low	14% or less of your population is exposed to a hazard with potential for measurable life safety impact, due to its extent and location.	1	30%
		Medium	15% to 29% of your population is exposed to a hazard with potential for measurable life safety impact, due to its extent and location.	2	
		High	30% or more of your population is exposed to a hazard with potential for measurable life safety	3	

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Hazard Ranking



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Hazard Ranking

	Degree of Risk			Assigned
PRI Category	Level	Criteria	Index Value	Weighting Factor
Capability Effectiveness	Weak	Weak/outdated/inconsistent plans, policies, codes/ordinances in place, no redundancies; limited to no deployable resources; limited capabilities to respond, long recovery.	1	30%
	Moderate	Plans, policies, codes/ordinances in place and meet minimum requirements; mitigation strategies identified but not implemented on a widespread scale; county/jurisdiction can recover but needs outside resources; moderate county/jurisdiction capabilities.	0	
	Strong	Plans, policies, codes/ordinances in place and exceed minimum requirements; mitigation/protective measures in place; county/jurisdiction has ability to recover quickly because resources are readily available, and capabilities are high.	-1	

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Hazard Ranking

	Degree of Risk			
PRI Category	Level	Criteria	Index Value	Assigned Weighting Factor
Climate Change	Low	No local data is available; modeling projections are uncertain on whether there is increased future risk; confidence level is low (inconclusive evidence).	1	10%
	Medium	Studies and modeling projections indicate a potential for exacerbated conditions due to climate change; confidence level is medium to high (suggestive to moderate evidence).	2	
	High	Studies and modeling projections indicate exacerbated conditions/increased future risk due to climate change, very high confidence level (strong evidence, well documented and acceptable methods).	3	

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Hazard Ranking

HAZARD RANKING =

[PROBABILITY OF OCCURRENCE X .30] + [(IMPACT ON POPULATION X 3) + (IMPACT ON PROPERTY X 2) + (IMPACT ON ECONOMY X 1) X .30] + [CAPABILITY EFFECTIVENESS X .30] + [CLIMATE CHANGE X .10]

Low = Values less than or equal to 3.8

Medium = Values between 3.9 and 4.9

High = Values greater than or equal to 5.0.



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Short Break

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MEETING SUMMARY

Essex County Hazard Mitigation Plan Planning Partnership Risk Assessment Meeting February 18, 2025; 9:30 – 10:30 a.m.

Agenda Item and Summary

Ager	nda Item and Summary	
#	Agenda Item	Summary of Discussion and Decision Points
1.	Introductions, Welcome, and Attendance	See sign-in sheet
2.	Hazard Mitigation Planning Review	Alison Miskiman reviewed the hazard mitigation planning process and schedule.
3.	Review Risk Assessment Results	Black & Veatch staff reviewed the results of the risk assessment for each hazard of concern.
4.	Capability Effectiveness	Capability Effectiveness is a determination of how effective existing capabilities are to reduce risk. The HMP rates each jurisdiction's effectiveness as weak, moderate, or strong.
5.	Hazard Rankings	The calculations for hazard ranking were discussed including probability, impact on population, impact on property, impact on economy, capability effectiveness, and impact of climate change.
		Essex County's hazard rankings were calculated as follows:





6.	Review Municipal Hazard Rankings	Each jurisdiction was tasked with reviewing the calculated hazard rankings for their jurisdiction and providing comments and edits.
7.	Break	





Sign In Sheet

Essex County Hazard Mitigation Plan

Meeting: Risk Assessment Presentation

February 18, 2024

Location: 560 Northfield Avenue, West Orange, NJ

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ESSEL DEM	Montalxit	Molevand MIS	Churs o	Livingston Colls	Mew Alk	Mest Orange	Belleville
Story	W30	BA OFM Conductor	5 7	Fire Chief / DEM Contin	OKM Coons	Coopering Toky Cooding	Title S/C - OCM COUR
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Sign In Sheet

Essex County Hazard Mitigation Plan

Meeting: Risk Assessment Presentation February 18, 2024

Location: 560 Northfield Avenue, West Orange, NJ

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Black + Veston	Olarge	Month Calencil	North Coldwell	FAIRFIEW	M:(11b/17	north Calburl	TRINGER	Ghen Righe	Gler Eide	Glen Riose	ROSPEAND	15-12 Will	Luftey	Bloom Fire 10	NACY	West coldwell	Verona	Jurisdiction
	Different open	Police OSM	362	OED CORDINATIVE	File Chief/ Eres	OEM Coordinator	,	Lepay Hamin	DEM	Orm	OBEN	OKS	Sas. Cod.	OEM Condinator	OFM CERROLITAGE	OEM word water	cordinator	Title
P BLACK & VEATCH	toold. Warrenge	Chref Crorth Carling of	J Birond Cnown caldwell org	RCASENDIADO SAIRFIED NS, ORG	1 Perhavastike in 11 pointupor	och e Northalder". ors	MMULLICARY OF RMILTON NO. GOV	ate me Clerridge of or	amoscowe glenridge, ors	din and wall of or and your	SMOKE BAROSHOWNERS ORC	Incolour & Killes/Kes en	sterrano enutoury ug	ticolaria bloom field nypo com	DSAMANGETO CANTUNITY OR		joe! marting very the on	Email
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MEETING AGENDA

Essex County Hazard Mitigation Plan Planning Partnership Mitigation Strategy Workshop February 18, 2025; 10:30 – 11:30 a.m.

- 1. Welcome
- 2. Hazard Mitigation Plan Goals
- 3. Mitigation Action Types
- 4. Connecting the Risk and Capability Assessments to Mitigation Actions
- 5. Public and Stakeholder Input
- 6. Review Actions and Annexes
- 7. Next Steps
 - a. Reviews
 - b. Adoptions







Essex County HMP Updated Goals

Goals and Objectives

• Goal 1: Protect Life
• Goal 2: Protect Property
• Goal 3: Increase Public Preparedness and Awareness
• Goal 4: Develop and Maintain an Understanding of Increased Risk from Climate Change Impacts to Natural Hazards
• Goal 5: Enhance County and Local Mitigation Capabilities to Reduce Hazard Vulnerabilities
• Goal 6: Support Continuity of Operations Pre-, During, and Post-Hazard Events
• Goal 7: Reduce the Risk of Natural Hazards for Socially Vulnerable Populations and Underserved Communities (NEW)

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What are Mitigation Actions?

Prevention

Property Protection

Property Protection

Property Protection

Property Protection

Public Education and Awareness

Natural Resources Protection

5



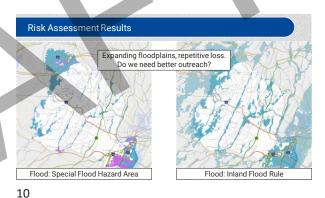


Risk Assessment Results

Less common/frequent hazards:
Are we prepared?

Earthquake: NEHRP D & E soils

Wildfire: Moderate to High Potential



Example: Addressing Repetitive Losses



Any municipality with repetitive losses is required to include an action to address this issue. Elevation or acquisition are the options available to homeowners. NJOEM recently conducted outreach to all repetitive loss properties in the state in summer 2024.

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Capability Assessment Results





Capability Assessment: Gaps, Weaknesses, Opportunities?

Consider your capability assessment to identify potential

- Plans that require update or are required to be developed? Codes or ordinances that require strengthening? Staff that need additional training?

- Lack of internal funds to support mitigation, grant match?
- Emerging threats that require additional public outreach and education?

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Example: Substantial Damage Management Plans

Addresses any hazards that can result in structural damage to a home.

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Example: Watershed Improvement Plans

Essex County HMP | Watershed Improvement Plan Question

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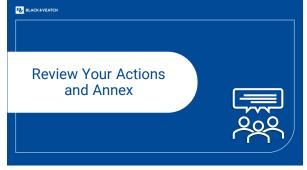
Public and Stakeholder Input

information on potential problems and solutions.

Problems and solutions supplied that were specific to your municipality are listed on your municipal worksheet.

Many of the issues are already addressed in draft actions, but are there any new problems or approaches you would like to consider adding?

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Review Your Draft Annex

The HMP draft, including your municipal annex, will be posted for public review at the end of the month. Public review will last for 30 days.

Review your draft annex and provide any necessary edits or additional actions prior to this Friday, February 21st. Missing information is highlighted.

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Public and NJOEM Review Timeline for Annexes

Black & Veatch will update your annex with your input on hazard rankings, capability effectiveness, and adaptive capacity from earlier today. Public version of your annex will be emailed to you by February 25th.

Please review and submit any changes prior to posting for public and NJOEM concurrent review <u>by Friday, February 28th.</u>

If we don't hear from you via email by 2/28, this means the annex is ready to be posted publicly.

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Review and Adoption

Public Review and concurrent NJOEM review: March 2025

FEMA Review: April-May 2025

Black & Veatch will contact you if there are comments or edits needed to your annex following public review, NJOEM review, and FEMA review.

Once the draft is submitted to FEMA for review, Black & Veatch will contact you with instructions for local adoptions.

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Finalize Hazard Ranking and Adaptive Capacity



Hazard Ranking – If you need to update from what is in your worksheet handed out today, fill out this form. If no changes are needed, do not submit a form.

Adaptive Capacity- If you need to update from what is in



your worksheet handed out today, fill out this form. If no changes are needed, do not submit a form.

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4

Provide Input on Watershed Improvement Plans



Watershed Improvement Planning - Please complete or share with your team to submit a response

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What's Next

Final input on draft annex needed by this Friday, February 21st

Support public outreach! Emails will be sent with instructions to announce the public review period.

Black & Veatch will contact you if there are comments or edits needed to your annex following public review, NJOEM review, and FEMA review.

Once the draft is submitted to FEMA, <u>Black & Veatch will contact you with instructions for local adoption (April 2025).</u>

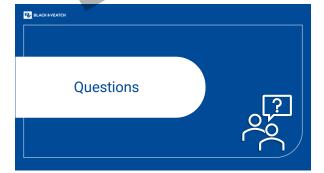
BLACK & VEATCH

26



Stop by and see us if you are on this slide

28



₽ BLACK & VEATCH **Points of Contact** Essex County Sheriff's Office Sergeant Ryan Peter 973-324-9750 | rpeter@essexsheriff.com Black & Veatch Project Manager Alison Miskiman CFM, GISP 201-977-4432 | <u>MiskimanAM@bv.com</u> Black & Veatch Planners Chris Huch CFM 201-225-8077 | <u>HuchJrC@bv.com</u> Heather Apgar CFM 201-977-6617 | <u>ApgarH@bv.com</u>

29 30

MEETING SUMMARY

Essex County Hazard Mitigation Plan Planning Partnership Mitigation Strategy Workshop February 18, 2025; 10:30 – 11:30 a.m.

Location: 560 Northfield Avenue, West Orange, NJ

Agenda Item and Summary

#	Agenda Item	Summary of Discussion and Decision Points
1.	Introductions and Attendance	See sign-in sheet
2.	Hazard Mitigation Plan Goals	The goals for the 2025 update were reviewed.
3.	Mitigation Action Types	The four mitigation action types were reviewed: Prevention Property Protection Public Education and Awareness Natural Resources Protection
4.	Connecting the Risk and Capability Assessments to Mitigation Actions	Instructions and examples for how to connect the results of the risk assessment and capability assessment to mitigation actions were given. Example actions included addressing repetitive loss, developing substantial damage response plans, and development watershed improvement plans. Attendees were asked to provide information on progress made on development of watershed improvement plans.
5.	Public and Stakeholder Input	Comments received during the stakeholder workshop and surveys for the public, stakeholders, and neighboring communities were distributed to each jurisdiction for consideration in their mitigation strategies.





6.	Review Actions and Annexes	Jurisdictions were directed to review the draft actions and their draft annexes as a whole, using information identified during the workshop.
		Jurisdictions then worked one on one with Black & Veatch staff to identify improvements to existing actions and potential new actions.
7.	Next Steps	Jurisdictions were presented with the remaining schedule for the planning process: • March: Public Review and NJOEM Review • April-June: FEMA review and adoptions







Sign In Sheet

Essex County Hazard Mitigation Plan

Meeting: Mitigation Strategy Workshop February 18, 2024

Location: 560 Northfield Avenue, West Orange, NJ

Name Fer Structtoff	Jurisdiction 10. Casoline 11	Pelice Chief/osm	Chief @ North Champling
CRIAN COLBO	Belleville	15/C + 50m Gox	g corbo philbrille my ors
MARK GULL MUS	@WZDWWL	OF WEDGADINGTOD	FIALOLLIANS CHAMBER - WI.
JACK MEELY	Cedu Gross	902	smeetraj @ cedergrosepol.org
JOHN JANES	NEVACK	OEN COOLO	JAMES JOHE CI, NEWACK, MJ
Edino Dim	West Ormae	Segrant/Deputy Coodinator	EDIADWOPD. Dra
Mastoplar l. Mallin		Fire Chief 10FM Lound	Mulling / wing fun jorg
Todd warren	Orange	Director OPD	tood warren & wangery wheein
	CSSEX Fells	Defuty Director DEM	Glames @naihausmu.com
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Sign In Sheet

Essex County Hazard Mitigation Plan

Meeting: Mitigation Strategy Workshop February 18, 2024

Location: 560 Northfield Avenue, West Orange, NJ

Name	Jurisdiction	Title	Email	
Joil Martin	NINONS	Coordinator	Joel marking vernagelice and	io an
Thomas Toolan	Bloomfield	Coordinato,	tico laci a bloom field need a	623
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MEETING AGENDA

Essex County Hazard Mitigation Plan Steering Committee Draft Plan Review February 25, 2025; 1:00 – 2:00 p.m.

Microsoft Teams: <u>Join the meeting now</u> Meeting ID: 217 494 023 435 Passcode: 6yx7Hd7o Dial in by phone +1 913-278-0791 Phone conference ID: 806 657 319#

1. Welcome

- a. Roll Call
- b. Review Schedule

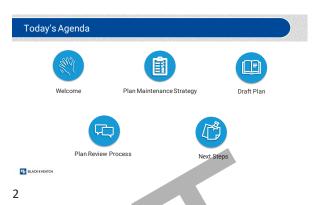
2. Plan Maintenance Strategy

- a. How often the Planning Partnership should meet to review the plan (at least annually)
- b. When to meet?
- c. Who is responsible for organizing the meeting?
- 3. Draft Plan
- 4. Plan Review
 - a. Public Review
 - b. State Review
 - c. FEMA Region 2 Review
- 5. Next Steps
- 6. Questions and Discussion













Plan Maintenance Strategy

5

Plan Maintenance Strategy

Local Plan Requirement 02 - 44 CRR Part 201 6(c)(4)(t)

The plan shall facilitie plan maintenance process that includes a section describing the method and schedule of monitoring, evaluating and updating the method include:

• How often the Planning Partnership should meet to review the plan (at least annually)

• Annually?

• When to meet?

• During a regular OEM Coordinator's meeting?

• Who is responsible for organizing the meeting?

• Essex County Sheriff's Office

6

7



Volume I Section 1: Introduction Section 2: Planning Process Section 3: Severe Weather Section 3: Severe Winter Weather Section 4: Hazards of Concern Section 5: Riskassessment Methodology and Tools Section 6: Disease Outbreak Section 7: Drought Section 7: Drought Section 8: Earthquake Section 9: Extreme Temperatures Section 10: Flood

■ BLACK & VEATO

BLACK & VEATCH

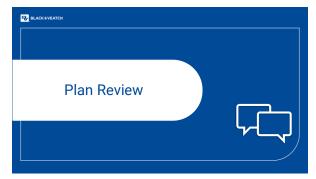
Draft Plan - Volume I

8

10

Volume II

Section 1: Essex County
Section 2: Township of Belleville
Section 3: Township of Belleville
Section 4: Borough of Caldwell
Section 5: Township of Cedar Grove
Section 5: Township of Cedar Grove
Section 7: Borough of Essex Fells
Section 7: Borough of Gless Rels
Section 9: Borough of Glen Ridge
Section 9: Borough of Glen Ridge
Section 10: Township of Invingation
Section 12: Township of Maplewood



11 12

Plan Review - Public Review Plan Review - State Review Draft Plan to be posted for 30 days on the County website Social media announcements and requests for review from stakeholders Online form will allow members of the public and stakeholders to identify what part of the plan they are commenting on and provide their input. Black & Veatch will review comments • Address Volume I minor comments • Work with Core Planning Team and Steering Committee via email to discuss any substantial comments as necessary • Work with Planning Partners on Volume II annex edits as necessary. NJOEM will review the draft plan while it is in public review (estimated 30 County. Black & Veatch will lead effort to review and address comments: • Black & Veatch will address Volume I minor comments • Black & Veatch will work with Core Planning Team and Steering Committee via email to discuss any substantial comments as Black & Veatch will work with Planning Partners on Volume II annex edits as necessary BLACK & VEATCH BLACK & VEATCH 13 14 ₽ BLACK & VEATCH Plan Review - FEMA Review Following public review period and state review, Black & Veatch will submit the updated draft to FEMA Region 2 and request permission to begin adoptions. Comments and requested edits will be submitted to the County. Black & Veatch will lead effort to review and address comments: Black & Veatch will address Volumer innior comments Black & Veatch will work with Core Planning Team and Stearing Committee via email to discuss any substantial comments as **Next Steps** Black & Veatch will work with Planning Partners on Volume II annex BLACKAV 15 16 **Next Steps** What's Next Review the draft plan and submit comments via online form Help promote the public review process Stay tuned for updates on potential comments from the public, NJOEM,

18

BLACK & VEATCH







MEETING SUMMARY

Essex County Hazard Mitigation Plan Steering Committee Draft Plan Review February 25, 2025; 1:00 – 2:00 p.m.

Microsoft Teams: <u>Join the meeting now</u> Meeting ID: 217 494 023 435 Passcode: 6yx7Hd7o Dial in by phone +1 913-278-0791 Phone conference ID: 806 657 319#

Agenda Item and Summary

#	Agenda Item	Summary of Discussion and Decision Points
1.	Welcome	Sergeant Peter and Chris Huch welcomed attendees and thanked them for their continued participation.
2.	Plan Maintenance Strategy	Mr. Huch explained that FEMA requires a plan maintenance strategy to be established to track progress, integration, and implementation of the HMP.
	How often the Planning Partnership should meet to review the plan (at least annually)?	The Steering Committee agreed that the Planning Partnership should meet annually.
	When to meet?	The Steering Committee agreed that the meeting to review the plan will take place at the June Essex County OEM Coordinator's Meeting each year.
	Who is responsible for organizing the meeting?	Essex County OEM will be responsible for organizing the meeting.
3.	Draft Plan	Mr. Huch reviewed the organization and layout of Volume I and Volume II of the HMP draft.
		 Volume I Section 1: Introduction Section 2: Planning Process Section 3: County Profile Section 4: Hazards of Concern Section 5: Risk Assessment Methodology and Tools





- Section 6: Disease Outbreak
- Section 7: Drought
- Section 8: Earthquake
- Section 9: Extreme Temperatures
- Section 10: Flood
- Section 11: Geological Hazards
- Section 12: Severe Weather
- Section 13: Severe Winter Weather
- Section 14: Wildfire
- Section 15: Hazard Ranking
- Section 16: Capability Assessment
- Section 17: Mitigation Strategy
- Section 18: Maintaining the Hazard Mitigation Plan

Volume II

- Section 1: Essex County
- Section 2: Township of Belleville
- Section 3: Township of Bloomfield
- Section 4: Borough of Caldwell
- Section 5: Township of Cedar Grove
- Section 6: City of East Orange
- Section 7: Borough of Essex Fells
- Section 8: Township of Fairfield
- Section 9: Borough of Glen Ridge
- Section 10: Township of Irvington
- Section 11: Township of Livingston
- Section 12: Township of Maplewood
- Section 13: Township of Millburn
- Section 14: Township of Montclair
- Section 15: City of Newark
- Section 16: Borough of North Caldwell
- Section 17: Township of Nutley
- Section 18: City of Orange Township
- Section 19: Borough of Roseland
- Section 20: Township of South Orange Village
- Section 21: Township of Verona
- Section 22: Township of West Caldwell
- Section 23: Township of West Orange





4.	Plan Review	Mr. Huch reviewed the process
	State Review State Review	 Draft Plan to be posted for 30 days on the County website Social media announcements and requests for review from stakeholders Online form will allow members of the public and stakeholders to identify what part of the plan they are commenting on and provide their input. Black & Veatch will review comments Address Volume I minor comments Work with Core Planning Team and Steering Committee via email to discuss any substantial comments as necessary Work with Planning Partners on Volume II annex edits as necessary. NJOEM will review the draft plan while it is in public review (estimated 30 days) Comments and requested edits from NJOEM will be submitted to the County. Black & Veatch will lead effort to review and address comments: Black & Veatch will address Volume I minor comments Black & Veatch will work with Core Planning Team and Steering Committee via email to discuss any substantial comments as necessary Black & Veatch will work with Planning Partners on Volume II annex edits as necessary.
	FEMA Region 2 Review	Following public review period and state review, Black & Veatch will submit the updated draft to FEMA Region 2 and request permission to begin adoptions.



		 Comments and requested edits will be submitted to the County. Black & Veatch will lead effort to review and address comments: Black & Veatch will address Volume I minor comments Black & Veatch will work with Core Planning Team and Steering Committee via email to discuss any substantial comments as necessary Black & Veatch will work with Planning Partners on Volume II annex edits as necessary.
5.	Next Steps	 Review the draft plan and submit comments via online form Help promote the public review process Stay tuned for updates on potential comments from the public, NJOEM, and FEMA Region 2
6.	Questions and Discussion	

Steering Committee Attendees

Essex County
□Mark Steinberg, OEM
☐ Denise Teague, OEM
⊠ Ryan Peter, OEM
☐ Frank Del Gaudio, Department of Health & Rehabilitation
☐ Carl Hunte, Chief Information Officer, Assistant County Administrator
☐ James Simpson, EMS Coordinator
☐ Richard Fernandez, Principal Engineer
☐ Sanjeev Varghese, County Engineer
⊠ Samantha Martinez-Mendoza, NJLINCS Coordinator, New Jersey Local Information Network
Communications System (NJLINCS)
☐ Gerry Grande, Roads and Bridges
☐ Lauren T. Agnew, Public Information Officer
☐ Daniel Salvante, Director, Parks Department
☐ Anibal Ramos, Department of Citizen Services
☐ Robert D. Jackson, County Administrator

Municipal





☐ Ralph Casendino, Lieutenant/OEM Coordinator, Fairfield
☑ Robert Echavarria, Fire Chief, Township of Millburn☐ Juba Dowdell, OEM Coordinator, City of Newark
☐ Christopher Mullin, Fire Chief, Township of Livingston
☐ Joel Martin, OEM Coordinator, Township of Verona
State
☐ Jordan Siegel, Assistant Unit Head, NJOEM
☐ Alyssa Meredith, Mitigation Planner, NJOEM
☐ Chris Testa, Mitigation Unit, NJOEM
FEMA
☐ Megan Wren, Planning, FEMA Region 2
Stakeholders
☐ Ashlyn Spector, Senior Research Specialist, Rutgers University-Bloustein
□ Carrie Martin, Environmental Sustainability Planner, New Jersey Institute of Technology, Center fo □ Community Systems
☐ Chris Obropta, Specialist, Rutgers Cooperative Extension Water Resources Program
☐ Jan Zientek, Department Head, Rutgers Cooperative Extension
☐ Janet Rekeius, District Manager, Hudson Essex Passaic Soil Conservation District
☐ Essex County Community Organizations Active in Disaster
☐ Patty Spango, Superintendent of Elections and Commissioner of Registration, League of Woman
Voters of the Montclair Area
□ NY/NJ Baykeeper
Black & Veatch
☐ Alison Miskiman







APPENDIX D: PUBLIC AND STAKEHOLDER OUTREACH

This appendix provides documentation of public and stakeholder outreach. Public and 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 (Volume II).

1.1 STAKEHOLDER WORKSHOP

Essex County hosted a regional and local virtual stakeholder workshop on February 4, 2025. The invited stakeholders included all neighboring municipalities and counties in Union, Hudson, and Morris Counties, and stakeholders from academic, business/commerce, community/non-profit organizations, emergency services, hospital/medical, infrastructure, land use/development, natural/cultural resources, public works, and social equity sectors. Stakeholders invited to the workshop are documented in Section 2.6.3.2, Section 2.6.3.3, Section 2.6.3.4, and Section 2.6.3.5.

Figure A-1. Virtual Stakeholder Workshop Title Page



1.2 PUBLIC MEETING

A public meeting was held on February 18th, 2025 at the Essex County Emergency Operations Center. The meeting presented the concepts of hazard mitigation, the planning process for the 2025 HMP update, and the draft results of the risk assessment. Attendees were asked to provide input on problem areas and potential solutions they would like considered in the County and municipal mitigation strategies. Stakeholder groups were also invited to attend.





Figure A-2. February 2025 Public Meeting



Figure A-3. February 2025 Public Meeting, Problems and Solutions Exercise





1.3 Websites, Social Media, and News Articles

The following provides screenshots of websites, social media posts, news articles and other forms of public outreach.

Figure A-4. Township of Belleville Facebook Post







Figure A-5. Township of Belleville Police Department Facebook Post







Figure A-6. Township of Facebook Posts

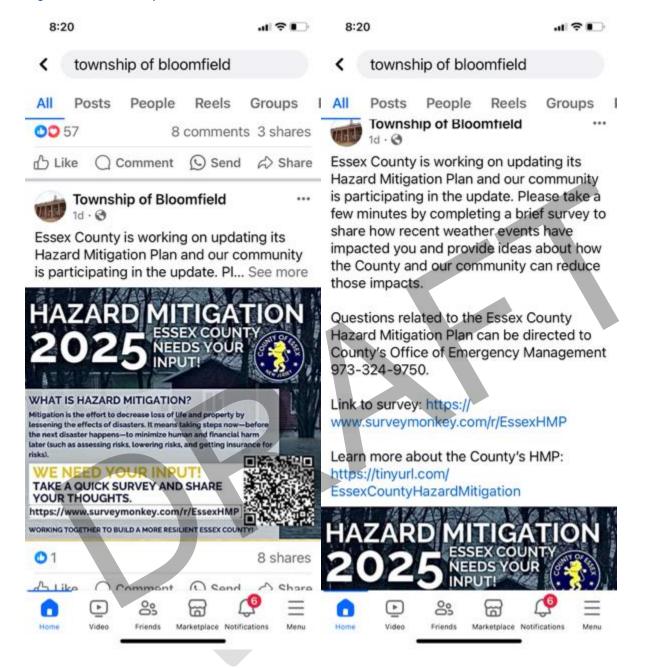






Figure A-7. Township of Bloomfield Website Post







Figure A-8. Bloomfield Democratic Action Facebook Post 1







Figure A-9. Bloomfield Democratic Action Facebook Post 2







Figure A-10. Bloomfield People for Storm Solutions Facebook Post







Figure A-11. Bloomfield Pulse Facebook Post







Figure A-12. Citizens of Bloomfield Facebook Post

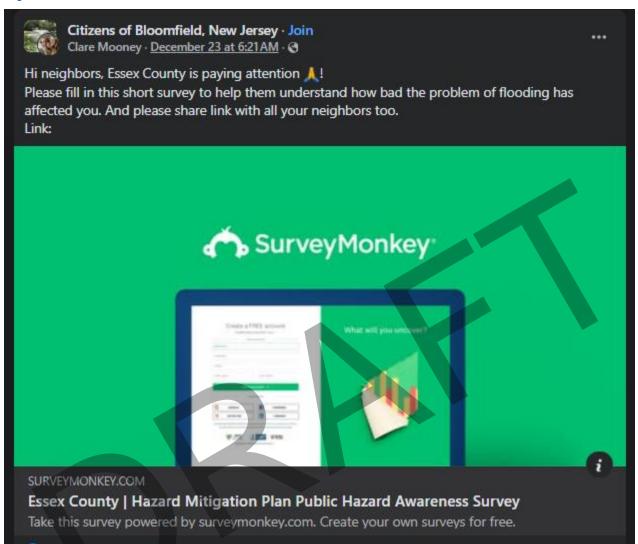






Figure A-13. Borough of Caldwell Facebook Post

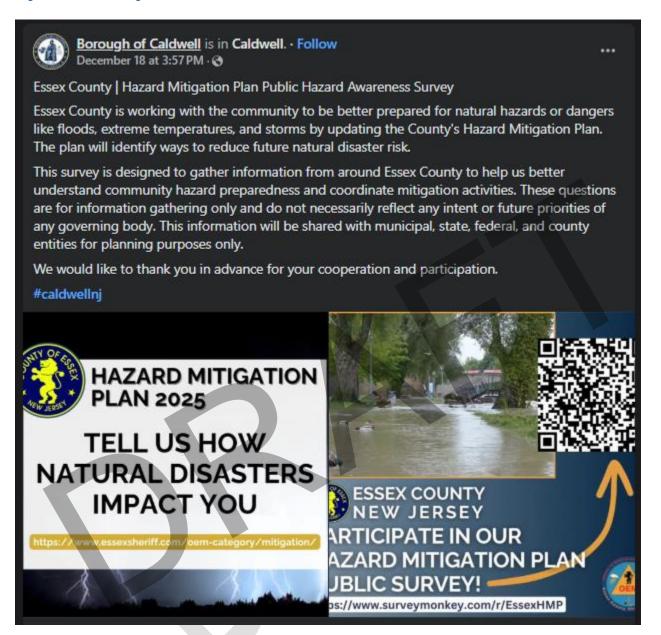






Figure A-14. Borough of Caldwell Instagram Post



Figure A-15. Borough of Caldwell Website Post



% Essex County Hazard Mitigation Plan Public Hazard Awareness Survey We would like to thank you in advance for your cooperation and participation





Figure A-16. Township of Livingston Website Post

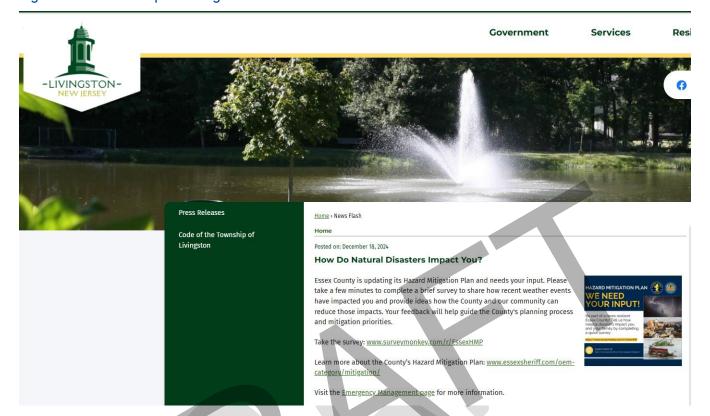






Figure A-17. Township of Livingston Facebook Post 1



We want to hear from you! Essex County is working on updating its Hazard Mitigation Plan and our community is participating in the update. Please take a few minutes to complete a brief survey to share how recent weather events have impacted you and provide ideas how the County and our community can reduce those impacts.

Survey: www.surveymonkey.com/r/EssexHMP

Learn more about Essex County's HMP: www.essexsheriff.com/oem-category/mitigation/
#LTownNJ







Figure A-18. Township of Livingston Facebook Post 2







Figure A-19. Township of Livingston Facebook Post 3







Figure A-20. Township of Livingston Instagram Post

Instagram



livingstontownshipnj











livingstontownshipnj 📋 We want to hear from you! Essex County is working on updating its Hazard Mitigation Plan and our community is participating in the update. Please take a few minutes to complete a brief survey to share how recent weather events have impacted you and provide ideas how the County and our community can reduce those impacts.

Survey: www.surveymonkey.com/r/EssexHMP

Dearn more about Essex County's HMP: www.essexsheriff.com/oem-category/mitigation/ #LTownNJ





Figure A-21. Township of Livingston X Post



Livingston NJ @ @Livingston_NJ · 10s

Essex County is working on updating its Hazard Mitigation Plan and our community is participating in the update. Please take a few minutes to complete a brief survey.

Survey: surveymonkey.com/r/EssexHMP

Learn more about Essex County's HMP: essexsheriff.com/oemcategory/m... #LTownNJ







Figure A-22. Township of Livingston Electronic Sign Posting



Figure A-23. Livingston 411 Facebook Post







Figure A-24. Maplewood Health Department Facebook Post





Figure A-25. Maplewood Seniors Advisory Committee Facebook Post

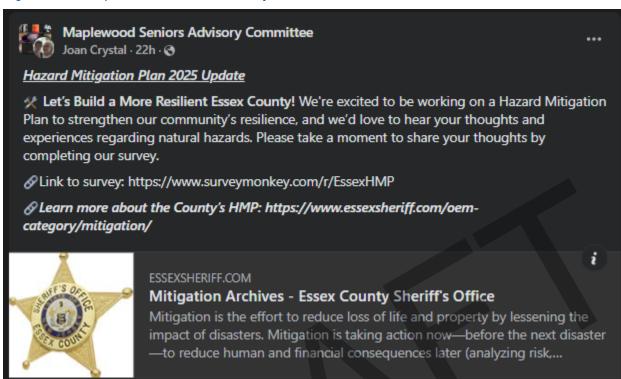








Figure A-26. Township of Millburn Facebook Post 1







Figure A-27. Township of Millburn Facebook Post 2



Roseland's Office of Emergency Management, along with the Essex County Sheriff's Office, is encouraging residents to take a survey which is soliciting comments and suggestions regarding the County's Hazard Mitigation Plan.

TAKE THE SURVEY: https://www.surveymonkey.com/r/EssexHMP



ZARD MITIGATION .AN 2025 UPDATE

ERVIEW

County is working on a Hazard Mitigation Plan (HMP) to rotect the county from natural disasters like floods, its and severe storms. This plan will help identify ways to natural disaster risk. The current HMP ensures the county nunicipalities remain eligible for Federal Emergency ement Agency (FEMA) hazard mitigation grant funding:

MP is being updated with the help of Black & Veatch ng state and federal rules. Once the plan is finished, the and its partners will be better prepared for natural rs and can access grant funding before and after they

IEFLYS OF MITIGATION NNIKG

oal of the HMP is to keep people safe and protect unities in Essex County from natural disasters. During this ng process, county and local agencies will work together to risks, and develop an action plan to reduce potential impacts to residents, buildings, infrastructure, the ment and the economy from natural hazards.

County and its planning partners will be working on ng the HMP over several months. The following are goals of

ovide opportunities for community members to share their ughts and ideas during the planning process.

nduct thorough studies of natural disaster risks using the st available data.

velop an action plan to minimize future impacts

ve money over time by reducing building damage and

ceive state and federal plan approval.

main eligible to secure FEMA funding to proactively plan future disasters.



TAKE THE SURV

WE WANT TO H

FROM YOU!

Coordinator.

MORE INFO

Scan the QR code and tell us which natural disasters you think impact Essex County most, and what we can do to reduce their impact.



ESSEX COUNTY HAZARD MITIGATION PLAN 2025 Update

T IS A HAZARD MITIGATION PLANT



Please share your mitigation p ideas with your local Office Emergency Management (O

Learn more about the HMP o County OEM website: https://www.essexsheriff.com/

category/mitigation/



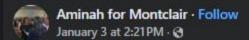
MORE INFORMATION CONTACT. sexoem@essexsherff.com







Figure A-28. Aminah for Montclair Facebook Post



FYI - Essex County is soliciting comments and suggestions regarding the County's Hazard Mitigation Plan:

TAKE THE SURVEY: https://surveymonkey.com/r/EssexHMP



HAZARD MITIGATION PLAN 2025 UPDATE

OVERVIEW

Essex County is working on a Hazard Mitigation Plan (HMP) to help protect the county from natural disasters like floods, droughts and severe storms. This plan will help identify ways to reduce natural disaster risk. The current HMP ensures the county and municipalities remain eligible for Federal Emergency Management Agency (FEMA) hazard mitigation grant funding.

The HMP is being updated with the help of Black & Veatch, following state and federal rules. Once the plan is finished, the county and its partners will be better prepared for natural disasters and can access grant funding before and after they happen.

PLANNING

The goal of the HMP is to keep people safe and protect communities in Essex County from natural disasters. During this planning process, county and local agencies will work together to dontify risks, and devolop an action plan to reduce potential future impacts to residents, buildings, infrastructure, the anyingment and the economy from natural hazards.

Essex County and its planning partners will be working on updating the HMP over several months. The following are goals of this process:

- Provide opportunities for community members to share their thoughts and ideas during the planning process.
- Conduct thorough studies of natural disaster risks using the best available data.
- · Develop an action plan to minimize future impacts.
- Save money over time by reducing building damage and repair costs.
- Receive state and federal plan approval.
- Remain eligible to secure FEMA funding to preactively plan for future disasters.



TAKE THE SURVEY!

Scan the QR code and tell us which natural disasters you think impact Essex County most, and what we can do to reduce their impact.



WE WANT TO HEAR FROM YOU!

Please share your mitigation project ideas with your local Office of Emergency Management (OEM) Coordinator.

MORE INFO

Learn more about the HMP on the County OEM website: https://www.essexsheriff.com/oemcategory/mitigation/



...



Figure A-29. Borough of Roseland Facebook Post 1



Borough of Roseland, NJ · Follow December 24 at 12:00 PM . @

Roseland's Office of Emergency Management, along with the Essex County Sheriff's Office, is encouraging residents to take a survey which is soliciting comments and suggestions regarding the County's Hazard Mitigation Plan.

TAKE THE SURVEY: https://www.surveymonkey.com/r/EssexHMP



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ERVIEW

County is working on a Hazard Mitigation Plan (HMP) to rotect the county from natural disasters like floods, ts and severe storms. This plan will help identify ways to natural disaster risk. The current HMP ensures the county nunicipalities remain eligible for Federal Emergency ement Agency (FEMA) hazard mitigation grant funding

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OF MITTIGATION

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TAKE THE SURV

Scan the QR code and tell us which natural disasters you think impact Essex County most, and what we can do to reduce their impact.



WE WANT TO H FROM YOU!

Please share your mitigation p ideas with your local Office Emergency Management (OI Coordinator.

MORE INFO

Learn more about the HMP of County OEM website: https://www.essexsheriff.com/ category/mitigation/

ESSEX COUNTY HAZARD MITIGATION PLAN 2025 Update

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T IS A HAZARD MITIGATION PLANS





rie: (975) 324-9750 essexpem@essexsheriff.com







Figure A-30. Borough of Roseland Facebook Post 2



Roseland's Office of Emergency Management, along with the Essex County Sheriff's Office, is encouraging residents to take a survey which is soliciting comments and suggestions regarding the County's Hazard Mitigation Plan.

TAKE THE SURVEY: https://www.surveymonkey.com/r/EssexHMP



ZARD MITIGATION .AN 2025 UPDATE

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TAKE THE SURV

WE WANT TO H

FROM YOU!

Coordinator.

MORE INFO

County OEM website: https://www.essexsheriff.com/

category/mitigation/

Learn more about the HMP o

Scan the QR code and tell us which natural disasters you think impact Essex County most, and what we can do to reduce their impact.



ESSEX COUNTY HAZARD MITIGATION PLAN 2025 Update

T IS A HAZARD MITIGATION PLANT



Please share your mitigation p ideas with your local Office Emergency Management (O



MORE INFORMATION CONTACT. sexoem@essexsherff.com





Figure A-31. Borough of Roseland Facebook Post 3



Borough of Roseland, NJ · Follow

January 6 at 6:00 PM . 3

Roseland's Office of Emergency Management, along with the Essex County Sheriff's Office, is encouraging residents to take a survey which is soliciting comments and suggestions regarding the County's Hazard Mitigation Plan.

TAKE THE SURVEY: https://www.surveymonkey.com/r/EssexHMP



ZARD MITIGATION AN 2025 UPDATE

ERVIEW

County is working on a Hazard Mitigation Plan (HMP) to rotect the county from natural disasters like floods. ts and severe storms. This plan will help identify ways to natural disaster risk. The current HMP ensures the county nunicipalities remain eligible for Federal Emergency ement Agency (FEMA) hazard mitigation grant funding.

MP is being updated with the help of Black & Veatch, g state and federal rules. Once the plan is finished, the and its partners will be better prepared for natural rs and can access grant funding before and after they

OF MITIGATION

cal of the HMP is to keep people safe and protect nities in Essex County from natural disasters. During this ig process, county and local agencies will work together to risks, and develop an action plan to reduce potential impacts to residents, buildings, infrastructure, the ment and the economy from natural hazards.

County and its planning partners will be working on ng the HMP over several months. The following are goals of

vide opportunities for community members to share their ughts and ideas during the planning process.

iduct thorough studies of natural disaster risks using the st available data

velop an action plan to minimize future impacts.

e money over time by reducing building damage and

peive state and federal plan approval.

nain eligible to secure FEMA funding to proactively plan future disasters.



TAKE THE SURV

Scan the QR code and tell us which natural disasters you think impact Essex County most, and what we can do to reduce their impact.



ESSEX COUNTY

2025 Update

HAZARD MITIGATION PLAN



WE WANT TO H

Please share your mitigation p ideas with your local Office Emergency Management (OI

Learn more about the HMP o County OEM website: https://www.essexsheriff.com/

FROM YOU!

Coordinator.

MORE INFO

category/mitigation/

R MORE INFORMATION CONTACT:







Figure A-32. Turtle Back Zoo Holiday Lights Festival Lawn Sign Posting 1







Figure A-33. Turtle Back Zoo Holiday Lights Festival Lawn Sign Posting 2



1.4 Public Survey

A public survey at the onset of the planning process. The survey was designed to capture data and information from members of the public, especially those who might not be able to attend public meetings or participate through other means in the planning process. The survey was posted from December 17, 2024, through February 5, 2025. The County posted the survey on the planning website and social media platforms. The Planning Partnership announced the availability of the survey on municipal social media accounts and electronic signage where available. A link to the electronic public survey was also shared with Steering Committee members and Stakeholders.

A total of 200 respondents completed this survey over a period of six months during the planning process. In total, the public survey yielded 200 responses. Flooding was ranked as the main hazard of concern from the majority of respondents. The majority of respondents receive information concerning a disaster from





the internet (57%), followed by municipal email (53%) and television news (47%). 54% of respondents reported their home had previously been damaged by a hazard event, with only 33% of those damages being reported to the local municipality. Only 71% of respondents reported knowing their evacuation routes with 12% noting they would need assistance in the event of an evacuation. 30% of respondents noted their home was located in a floodplain but the majority (58%) of respondents did not know if their home was located in a hazard area. Of those in the floodplain, only one third had flood insurance. 4% of respondents noted they rely on services from the local government or non-profits. 3% of respondents spoke a language other than English. The majority of respondents (45%) have lived in Essex County more than 20 years. 90% reporting owning their place of residence and 10% reported renting.

The following pages provide the summary of the public survey







1.5 STAKEHOLDER SURVEY

Stakeholders were invited to take part in the planning process through a stakeholder survey. Special emphasis was made to reach out to stakeholder groups that work with or support socially vulnerable populations and underserved communities. The stakeholder survey was open from January 8, 2025 through February 5, 2025. The following pages provide the summary of the stakeholder survey.



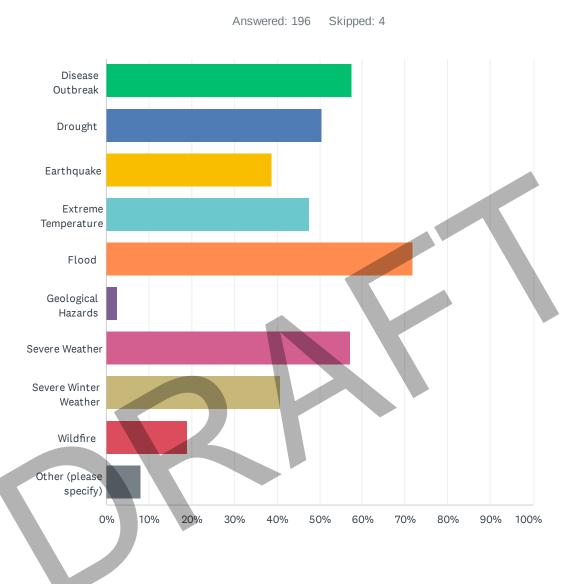


1.6 **N**EIGHBORING COMMUNITY SURVEY

All county and municipal governments that border Essex County were invited to provide input to the planning process. A request to complete a neighboring community survey was distributed to county and municipal contacts on January 8, 2025. The neighboring community survey was open from January 8, 2025 through February 5, 2025. The following pages provide the summary of the neighboring community survey.



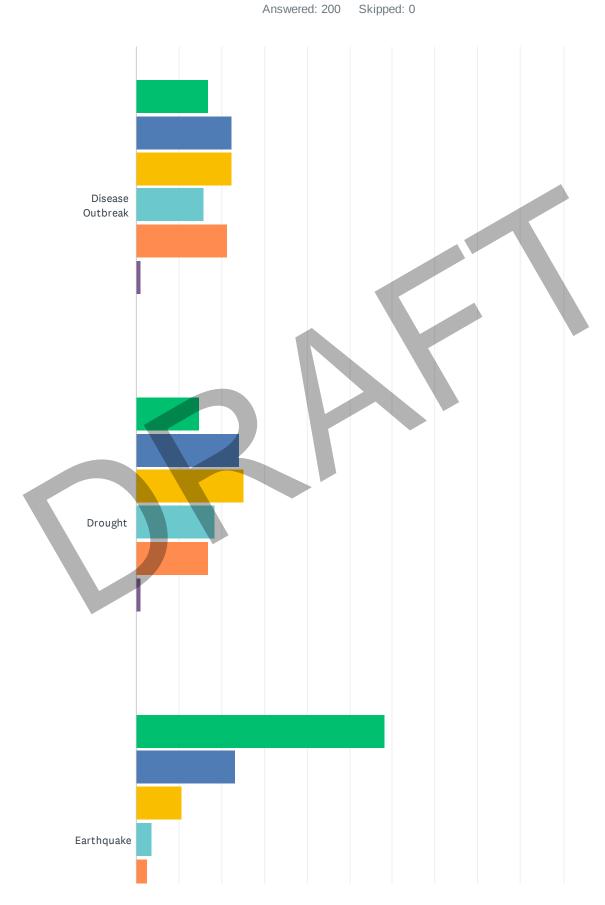
Q1 Which of the following natural hazards have you experienced in Essex County? Choose all that apply.

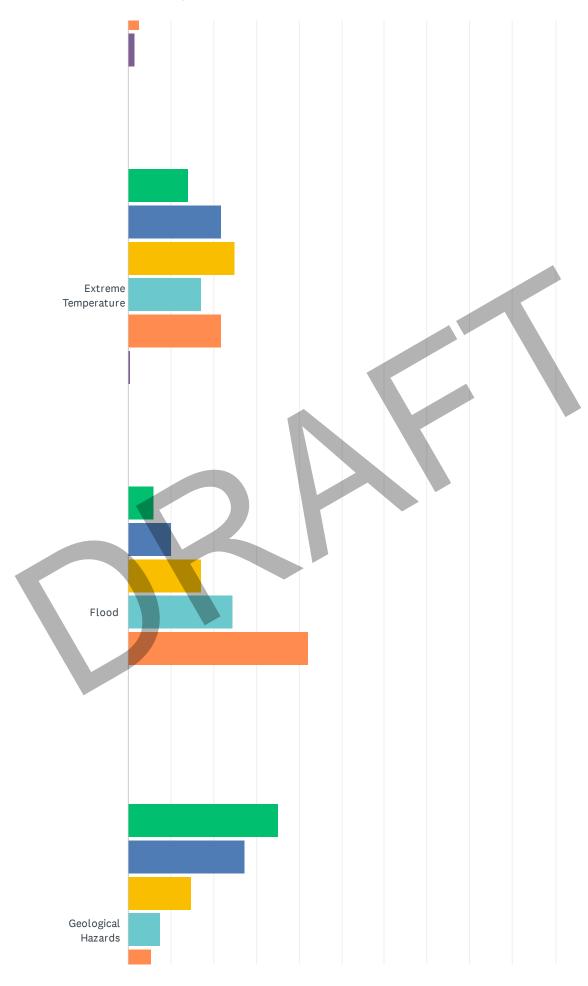


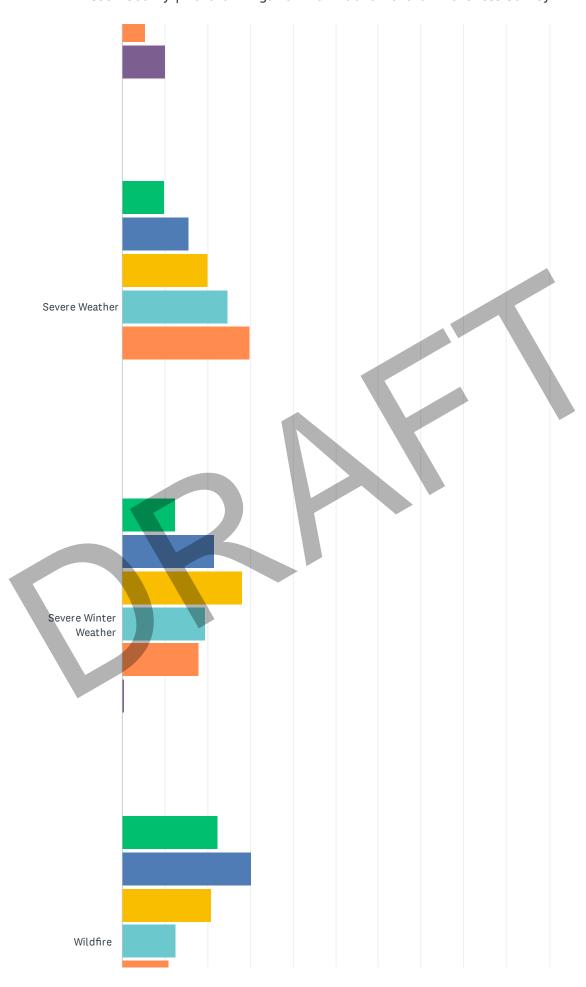
Essex County | Hazard Mitigation Plan Public Hazard Awareness Survey

ANSWER CHOICES	RESPONSES	
Disease Outbreak	57.65%	113
Drought	50.51%	99
Earthquake	38.78%	76
Extreme Temperature	47.45%	93
Flood	71.94%	141
Geological Hazards	2.55%	5
Severe Weather	57.14%	112
Severe Winter Weather	40.82%	80
Wildfire	18.88%	37
Other (please specify)	8.16%	16
Total Respondents: 196		

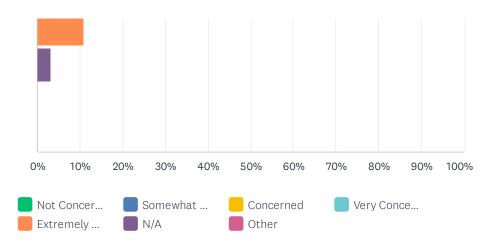
Q2 How worried are you about these natural dangers in Essex County?





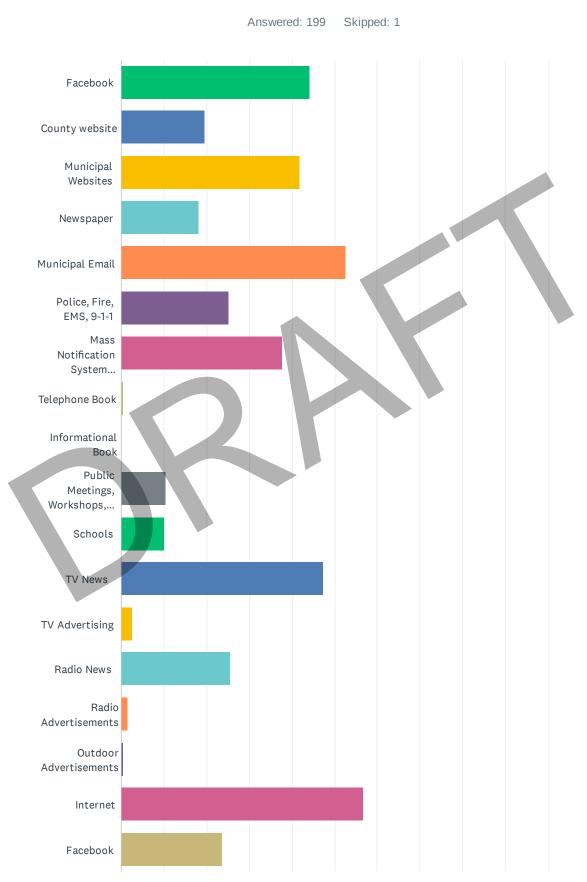


Essex County | Hazard Mitigation Plan Public Hazard Awareness Survey

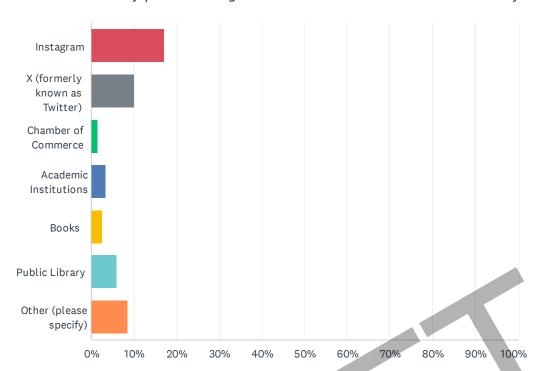


	NOT CONCERNED	SOMEWHAT CONCERNED	CONCERNED	VERY CONCERNED	EXTREMELY CONCERNED	N/A	OTHER	TOTAL
Disease Outbreak	16.84% 33	22.45% 44	22.45% 44	15.82% 31	21.43% 42	1.02%	0.00%	196
Drought	14.66% 28	24.08% 46	25.13% 48	18.32% 35	16.75% 32	1.05%	0.00%	191
Earthquake	58.20% 110	23.28% 44	10.58% 20	3.70% 7	2.65%	1.59%	0.00%	189
Extreme Temperature	13.99% 27	21.76% 42	24.87% 48	17.10% 33	21.76% 42	0.52% 1	0.00%	193
Flood	6.03% 12	10.05% 20	17.09% 34	24.62% 49	42.21% 84	0.00%	0.00%	199
Geological Hazards	35.26% 67	27.37% 52	14.74% 28	7.3 7 % 14	5.26% 10	10.00% 19	0.00%	190
Severe Weather	9.79% 19	15.46% 30	20.10%	24.74% 48	29.90% 58	0.00%	0.00%	194
Severe Winter Weather	12.31% 24	21.54% 42	28.21% 55	19.49% 38	17.95% 35	0.51%	0.00%	195
Wildfire	22.40% 43	30.21% 58	20.83% 40	12.50% 24	10.94% 21	3.13% 6	0.00%	192

Q3 How do you receive your information concerning a disaster? Check all that apply.



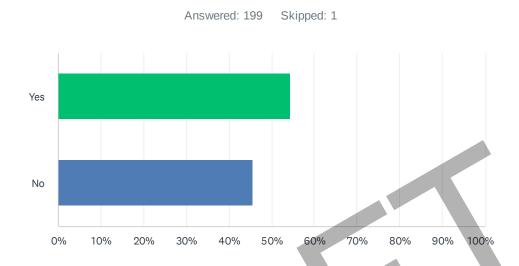
Essex County | Hazard Mitigation Plan Public Hazard Awareness Survey



Essex County | Hazard Mitigation Plan Public Hazard Awareness Survey

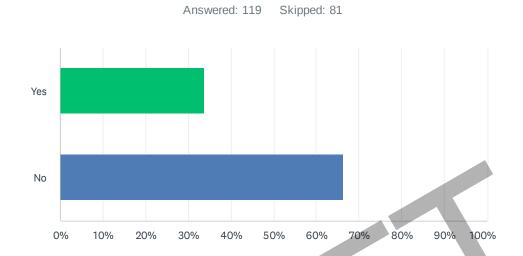
ANSWER CHOICES	RESPONSES	
Facebook	44.22%	88
County website	19.60%	39
Municipal Websites	41.71%	83
Newspaper	18.09%	36
Municipal Email	52.76%	105
Police, Fire, EMS, 9-1-1	25.13%	50
Mass Notification System (SJREADY)	37.69%	75
Telephone Book	0.50%	1
Informational Book	0.00%	0
Public Meetings, Workshops, Public Awareness Events	10.55%	21
Schools	10.05%	20
TV News	47.24%	94
TV Advertising	2.51%	5
Radio News	25.63%	51
Radio Advertisements	1.51%	3
Outdoor Advertisements	0.50%	1
Internet	56.78%	113
Facebook	23.62%	47
Instagram	17.09%	34
X (formerly known as Twitter)	10.05%	20
Chamber of Commerce	1.51%	3
Academic Institutions	3.52%	7
Books	2.51%	5
Public Library	6.03%	12
Other (please specify)	8.54%	17
Total Respondents: 199		

Q4 In the past, has your home been damaged by a hazard event? For example, flood waters entering your homes or wildfire damaging your structure?



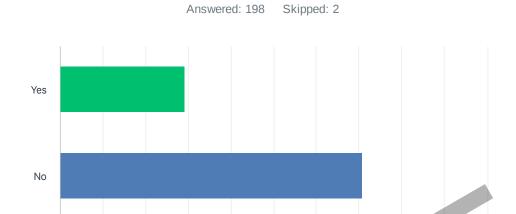
ANSWER CHOICES		RESPONSES	
Yes		54.27%	108
No		45.73%	91
TOTAL			199

Q5 If you answered 'yes' above, did you report the damages to your local police or fire departments or to an emergency management agency?



ANSWER CHOICES		RESPONSES		
Yes		33.61%		40
No		66.39%		79
TOTAL			-	119

Q6 Do you know your evacuation routes in the event of an emergency?



50%

60%

70%

90%

100%

80%

ANSWER CHOICES	RESPONSES	
Yes	29.29%	58
No	70.71%	140
TOTAL		198

0%

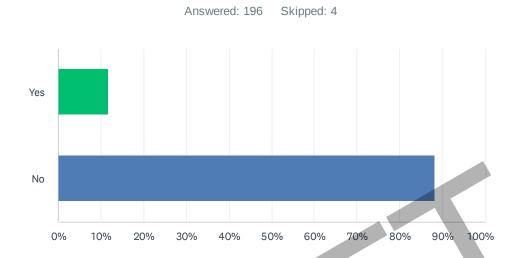
10%

20%

30%

40%

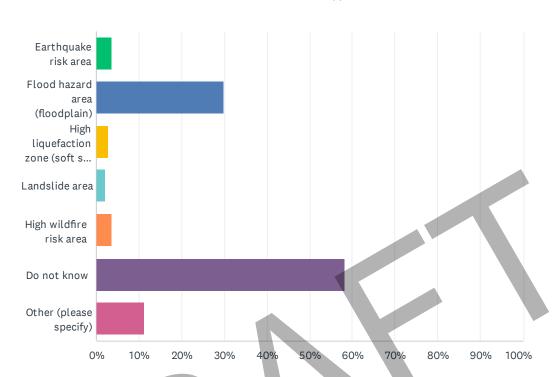
Q7 In the event of an evacuation, do you require assistance in order to evacuate?



ANSWER CHOICES		RESPONSES	
Yes		11.73%	23
No		88.27%	173
TOTAL			196

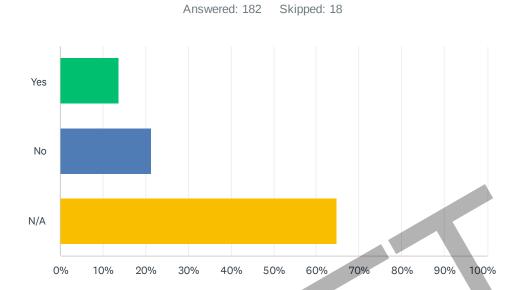
Q8 Is your home in any of these hazard areas? (Check all that apply)





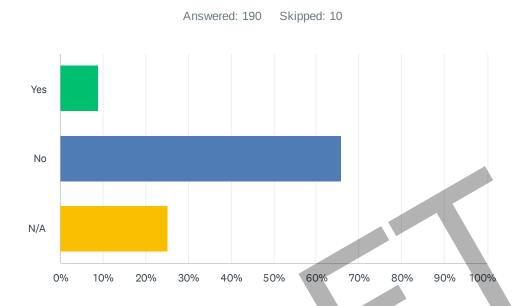
ANSWER CHOICES	RESPONSES	
Earthquake risk area	3.55%	5
Flood hazard area (floodplain)	29.79%	42
High liquefaction zone (soft soil shaking during earthquakes)	2.84%	4
Landslide area	2.13%	3
High wildfire risk area	3.55%	5
Do not know	58.16%	82
Other (please specify)	11.35%	16
Total Respondents: 141		

Q9 If your property is in the floodplain, do you have flood insurance?



ANSWER CHOICES		RESPONSES	
Yes		13.74%	25
No		21.43%	39
N/A		64.84%	118
TOTAL			182

Q10 If your property is outside the floodplain, do you have flood insurance?



ANSWER CHOICES	RESPONSES
Yes	8.95%
No	65.79%
N/A	25.26% 48
TOTAL	190

Q11 Please identify any specific vulnerabilities that you are aware of in your community (e.g. flood-prone areas or specific properties, critical facilities that lack backup power, etc.). Please list street names and other specific identifiers if possible.

Answered: 118 Skipped: 82



Q12 Please identify any specific vulnerabilities that you are aware of in Essex County outside of your community. Please list the municipality, street names, and other specific identifiers if possible.

Answered: 48 Skipped: 152



Q13 Do you have any comments, questions, or concerns regarding hazard mitigation in Essex County?

Answered: 60 Skipped: 140

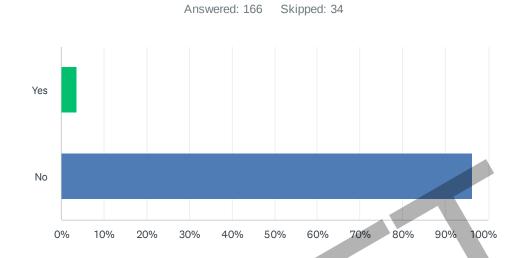


Q14 Can you identify any groups in your community that work with or provide support to socially vulnerable populations?

Answered: 77 Skipped: 123



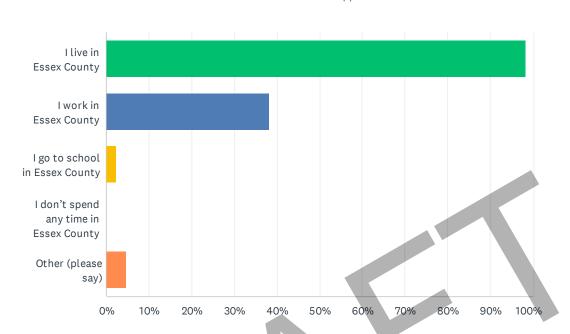
Q15 Do you rely on services from the local government or non-profits in your area, such as meals, visiting nurses, transportation services, etc.?



ANSWER CHOICES		RESPONSES	
Yes		3.61%	6
No		96.39%	160
TOTAL			166

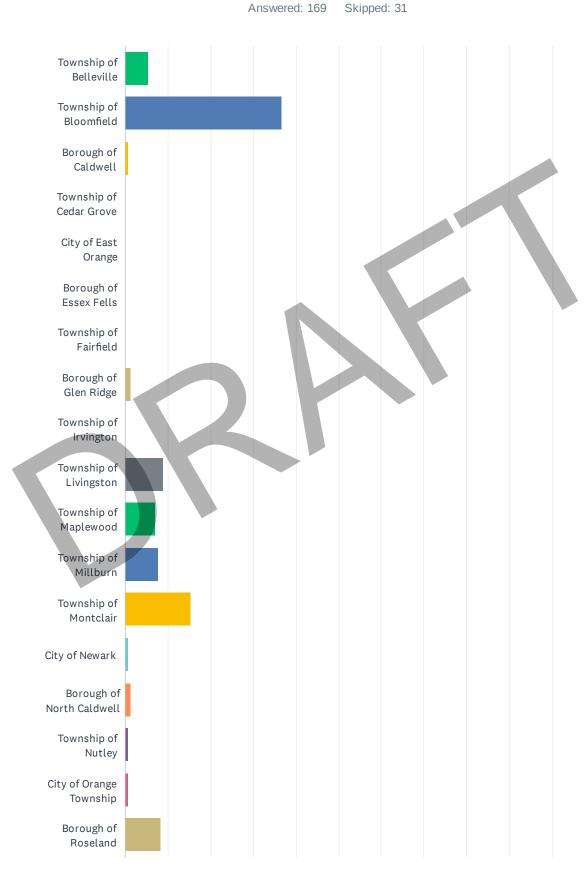
Q16 How do you spend your time in Essex County? Choose all that apply.



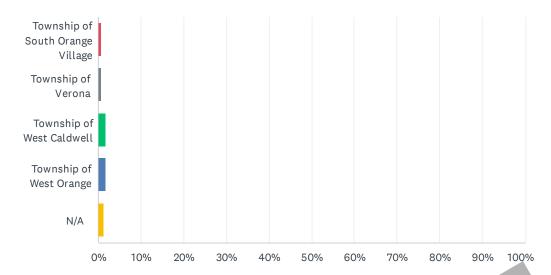


ANSWER CHOICES	RESPONSES	
I live in Essex County	98.21%	165
I work in Essex County	38.10%	64
I go to school in Essex County	2.38%	4
I don't spend any time in Essex County	0.00%	0
Other (please say)	4.76%	8
Total Respondents: 168		

Q17 If you live in Essex County, please indicate the municipality in which you live.



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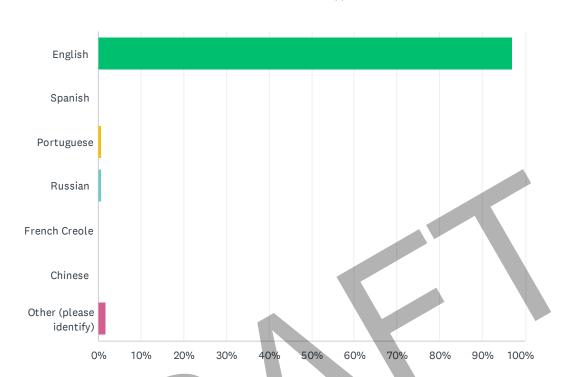


Essex County | Hazard Mitigation Plan Public Hazard Awareness Survey

ANSWER CHOICES	RESPONSES	
Township of Belleville	5.33%	9
Township of Bloomfield	36.69%	62
Borough of Caldwell	0.59%	1
Township of Cedar Grove	0.00%	0
City of East Orange	0.00%	0
Borough of Essex Fells	0.00%	0
Township of Fairfield	0.00%	0
Borough of Glen Ridge	1.18%	2
Township of Irvington	0.00%	0
Township of Livingston	8.88%	15
Township of Maplewood	7.10%	12
Township of Millburn	7.69%	13
Township of Montclair	15.38%	26
City of Newark	0.59%	1
Borough of North Caldwell	1.18%	2
Township of Nutley	0.59%	1
City of Orange Township	0.59%	1
Borough of Roseland	8.28%	14
Township of South Orange Village	0.59%	1
Township of Verona	0.59%	1
Township of West Caldwell	1.78%	3
Township of West Orange	1.78%	3
N/A	1.18%	2
TOTAL		169

Q18 What is the main language spoken or written in your home?

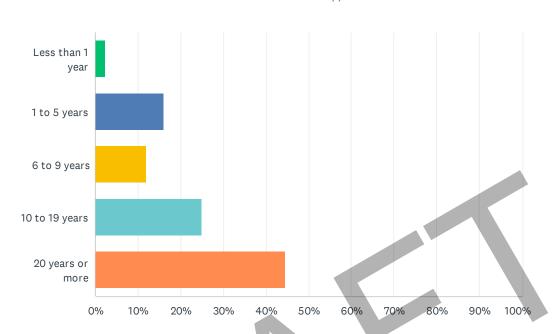




ANSWER CHOICES	RESPONSES	
English	97.04%	164
Spanish	0.00%	0
Portuguese	0.59%	1
Russian	0.59%	1
French Creole	0.00%	0
Chinese	0.00%	0
Other (please identify)	1.78%	3
TOTAL		169

Q19 How long have you lived here?

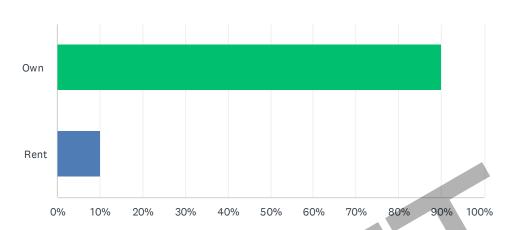




ANSWER CHOICES	RESPONSES	
Less than 1 year	2.38%	4
1 to 5 years	16.07%	27
6 to 9 years	11.90%	20
10 to 19 years	25.00%	42
20 years or more	44.64%	75
TOTAL		168

Q20 Do you own or rent your place of residence?

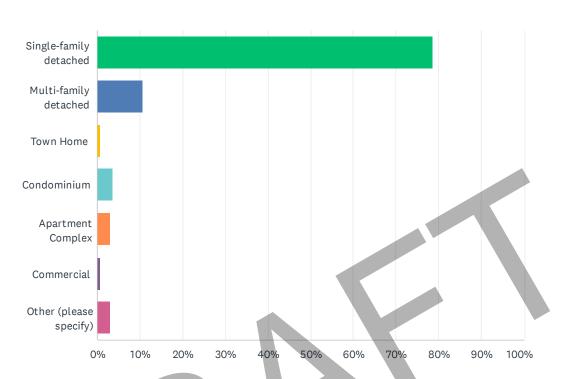




ANSWER CHOICES	RESPONSES	
Own	89.88%	151
Rent	10.12%	17
TOTAL		168

Q21 What type of residence do you live in?

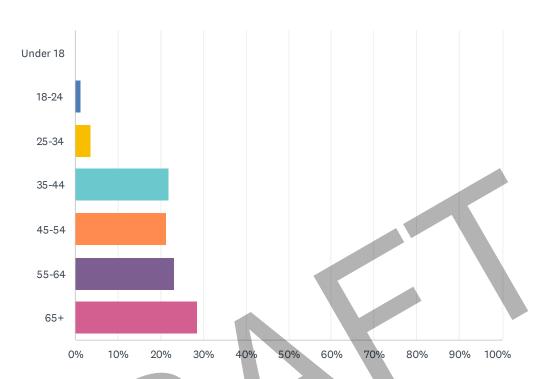
Answered: 169 Skipped: 31



ANSWER CHOICES	RESPONSES	
Single-family detached	78.70%	133
Multi-family detached	10.65%	18
Town Home	0.59%	1
Condominium	3.55%	6
Apartment Complex	2.96%	5
Commercial	0.59%	1
Other (please specify)	2.96%	5
TOTAL		169

Q22 Please indicate your age range:

Answered: 168 Skipped: 32



ANSWER CHOICES	RESPONSES	
Under 18	0.00%	0
18-24	1.19%	2
25-34	3.57%	6
35-44	22.02%	37
45-54	21.43%	36
55-64	23.21%	39
65+	28.57%	48
TOTAL		168

Q23 If you want to get emails with information about natural hazard awareness information, please provide your email address here (Optional):

Answered: 85 Skipped: 115

ANSWER CHOICES	RESPONSES	
Name	100.00%	85
Company	0.00%	0
Address	0.00%	0
Address 2	0.00%	0
City/Town	0.00%	0
State/Province	0.00%	0
ZIP/Postal Code	0.00%	0
Country	0.00%	0
Email Address	98.82%	84
Phone Number	0.00%	0

Q1 Contact Information

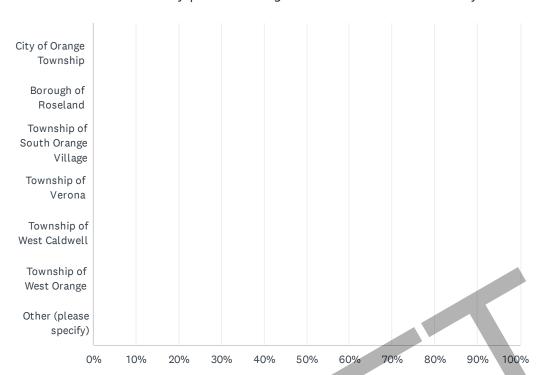
Answered: 2 Skipped: 0

ANSWER CHOICES	RESPONSES	
Name	100.00%	2
Title and Organization/ Agency Name	100.00%	2
Primary Responsibility	100.00%	2
Address 2	0.00%	0
City/Town	0.00%	0
State/Province	0.00%	0
ZIP/Postal Code	0.00%	0
Country	0.00%	0
Email Address	100.00%	2
Phone Number	100.00%	2

Q2 Please identify the location of your facility(ies) and/or primary service area. You may choose more than one if your service area covers multiple communities, or "Essex County (entire area)" if your service area covers all of Essex County. Check all that apply.



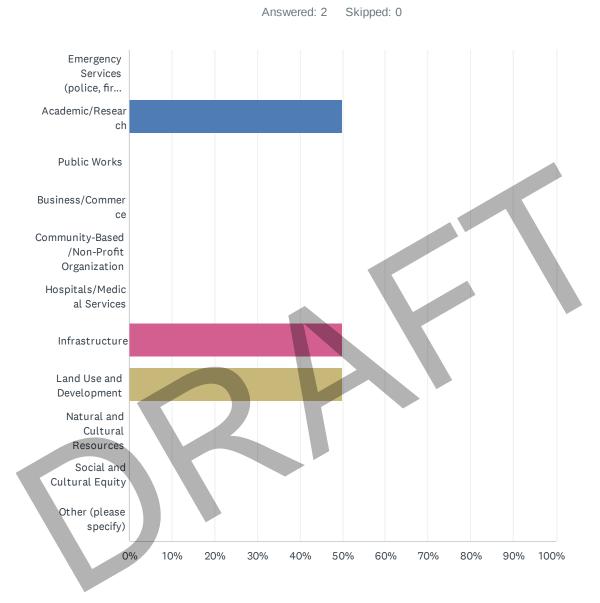
Essex County | Hazard Mitigation Plan Stakeholder Survey



Essex County | Hazard Mitigation Plan Stakeholder Survey

ANSWER CHOICES	RESPONSES	
Essex County (entire area)	50.00%	1
Township of Belleville	0.00%	0
Township of Bloomfield	0.00%	0
Borough of Caldwell	0.00%	0
Township of Cedar Grove	0.00%	0
City of East Orange	0.00%	0
Borough of Essex Fells	0.00%	0
Township of Fairfield	0.00%	0
Borough of Glen Ridge	0.00%	0
Township of Irvington	0.00%	0
Township of Livingston	0.00%	0
Township of Maplewood	0.00%	0
Township of Millburn	0.00%	0
Township of Montclair	0.00%	0
City of Newark	50.00%	1
Borough of North Caldwell	0.00%	0
Township of Nutley	0.00%	0
City of Orange Township	0.00%	0
Borough of Roseland	0.00%	0
Township of South Orange Village	0.00%	0
Township of Verona	0.00%	0
Township of West Caldwell	0.00%	0
Township of West Orange	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 2		

Q3 Which of the following sectors and areas of expertise do you represent? Choose all that apply.



Essex County | Hazard Mitigation Plan Stakeholder Survey

ANSWER CHOICES	RESPONSES	
Emergency Services (police, fire, EMS)	0.00%	0
Academic/Research	50.00%	1
Public Works	0.00%	0
Business/Commerce	0.00%	0
Community-Based/Non-Profit Organization	0.00%	0
Hospitals/Medical Services	0.00%	0
Infrastructure	50.00%	1
Land Use and Development	50.00%	1
Natural and Cultural Resources	0.00%	0
Social and Cultural Equity	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 2		

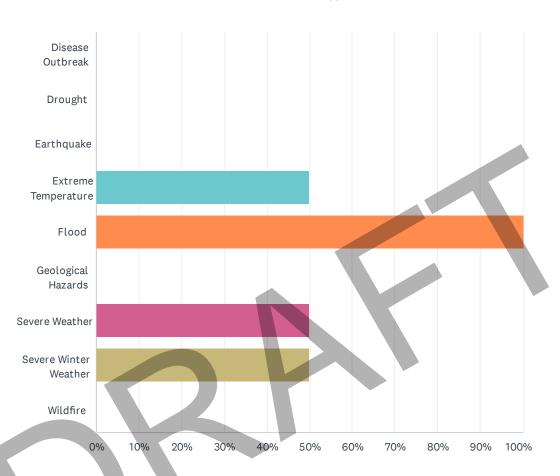
Q4 Based on the above categories, please provide additional description and information as to what your organization does or offers (please explain)

Answered: 2 Skipped: 0



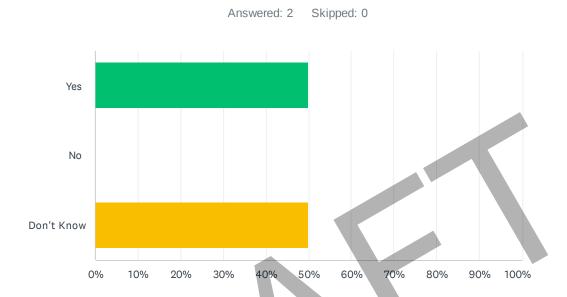
Q5 For which natural hazard(s) do you feel that you or your organization have a special interest and/or expertise? Check all that apply.





ANSWER CHOICES	RESPONSES	
Disease Outbreak	0.00%	0
Drought	0.00%	0
Earthquake	0.00%	0
Extreme Temperature	50.00%	1
Flood	100.00%	2
Geological Hazards	0.00%	0
Severe Weather	50.00%	1
Severe Winter Weather	50.00%	1
Wildfire	0.00%	0
Total Respondents: 2		

Q6 In the past, have buildings/facilities/structures your organization/agency has worked in or been responsible for maintaining been damaged by a hazard event? For example, flood waters entering the building or wildfire damaging your structure?



ANSWER CHOICES	RESPONSES
Yes	50.00% 1
No	0.00%
Don't Know	50.00% 1
TOTAL	2

Q7 If you answered 'yes' above, please describe the event that caused or is causing (if recurring) damage and loss of service/property. If quantifiable data is available, please provide that as well (number of damaged structures, monetary loss, etc.).

Answered: 1 Skipped: 1

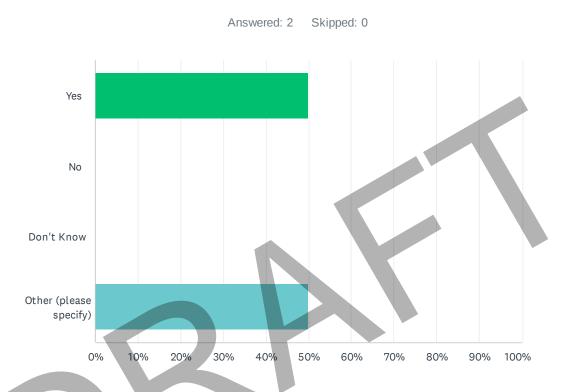


Q8 Please identify vulnerabilities in your service area from the above hazards that could threaten your facilities or ability to provide services. Please include the municipality name(s), street names, and other specific identifiers if possible.

Answered: 1 Skipped: 1

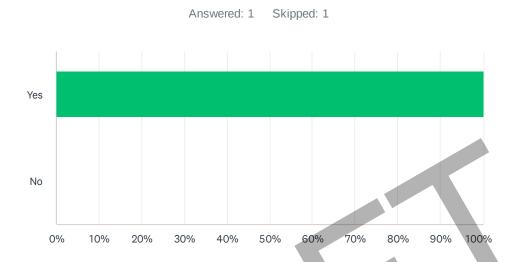


Q9 Is your organization/agency currently involved in conducting any studies or developing any programs which would support Essex County's hazard mitigation program? Studies can include hazard-specific data gathering which supports risk assessments, including economic data, or statistical data of other types.



ANSWER CHOICES	RESPONSES	
Yes	50.00%	1
No	0.00%	0
Don't Know	0.00%	0
Other (please specify)	50.00%	1
TOTAL		2

Q10 Has your organization/agency developed plans or is it covered by plans that relate to hazards? Examples include emergency operations plans, continuity of operations plans, and business continuity plans.



ANSWER CHOICES		RESPONSES	
Yes		100.00%	1
No		0.00%	0
TOTAL			1

Q11 Does your agency currently have any mitigation projects or activities underway? If so, please describe. Examples include structure hardening, stormwater improvements, hazard related outreach, etc.

Answered: 1 Skipped: 1



Q12 Please list any projects or programs that you have recently completed that will reduce your agency/organization's vulnerability to hazard events.

Answered: 0 Skipped: 2

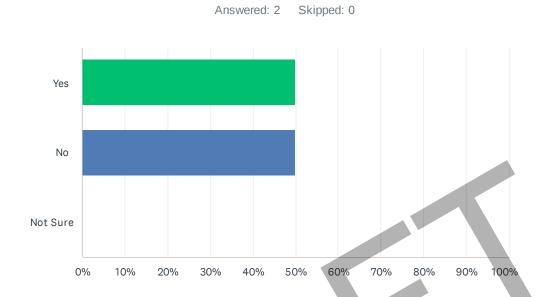


Q13 Please provide a list of projects or programs that your organization/agency would like to complete in order to reduce your vulnerability to hazard events.

Answered: 0 Skipped: 2



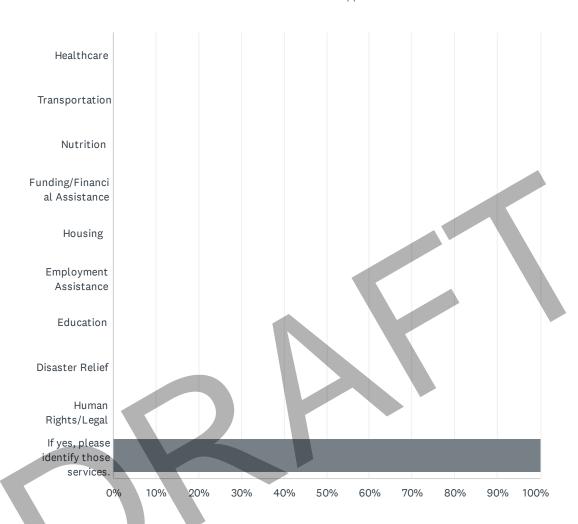
Q14 Does your organization/agency provide assistance to any socially vulnerable populations or underserved communities in Essex County?



ANSWER CHOICES	RESPONSES	
Yes	50.00%	1
No	50.00%	1
Not Sure	0.00%	0
TOTAL		2

Q15 If yes, what types of services do you provide?

Answered: 1 Skipped: 1



Essex County | Hazard Mitigation Plan Stakeholder Survey

ANSWER CHOICES	RESPONSES	
Healthcare	0.00%	0
Transportation	0.00%	0
Nutrition	0.00%	0
Funding/Financial Assistance	0.00%	0
Housing	0.00%	0
Employment Assistance	0.00%	0
Education	0.00%	0
Disaster Relief	0.00%	0
Human Rights/Legal	0.00%	0
If yes, please identify those services.	100.00%	1
Total Respondents: 1		



Q16 Please provide a list of the populations or communities served by your organization/agency.

Answered: 1 Skipped: 1



Q17 Can you identify any other groups in your community that work with or provide support to socially vulnerable populations?

Answered: 1 Skipped: 1



Q18 What barriers and community characteristics exist within the socially vulnerable populations and underserved communities within Essex County? This can include lack of outreach, access to transportation, low financial resources, etc.

Answered: 1 Skipped: 1



Q19 Do you have any questions or comments for Essex County?

Answered: 0 Skipped: 2

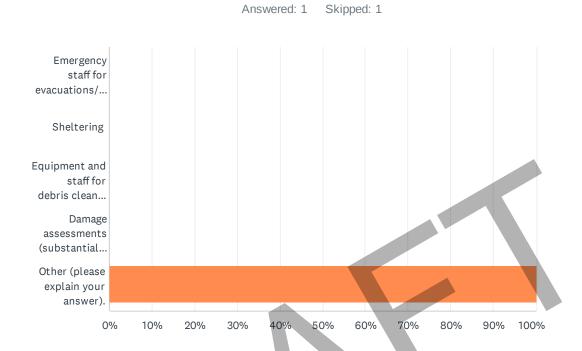


Q1 Contact Information

Answered: 2 Skipped: 0

ANSWER CHOICES	RESPONSES	
Name and Title	100.00%	2
Department/ Agency Name	100.00%	2
Primary Responsibility	0.00%	0
Address 2	0.00%	0
County/ Municipality	100.00%	2
State/Province	0.00%	0
ZIP/Postal Code	0.00%	0
Country	0.00%	0
Email Address	100.00%	2
Phone Number	100.00%	2

Q2 Do you have any shared service agreements or mutual aid agreements in place with Essex County for the following?



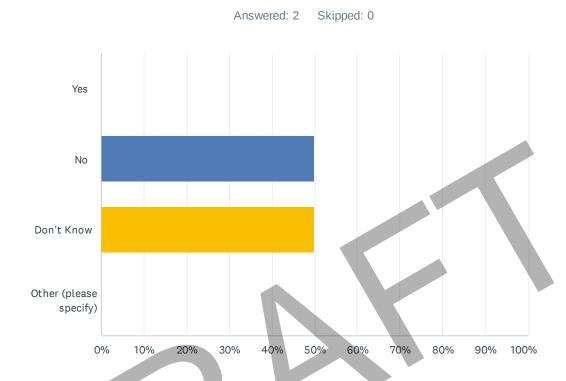
ANSWER CHOICES	RESPONSES	
Emergency staff for evacuations/disaster response	0.00%	0
Sheltering	0.00%	0
Equipment and staff for debris cleanup and removal	0.00%	0
Damage assessments (substantial damage determinations)	0.00%	0
Other (please explain your answer).	100.00%	1
Total Respondents: 1		

Q3 How are emergency operations and disaster response activities and needs communicated between your community and Essex County?

Answered: 2 Skipped: 0

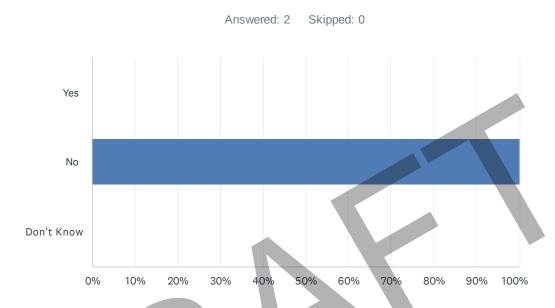


Q4 Is Essex County involved in your community's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?



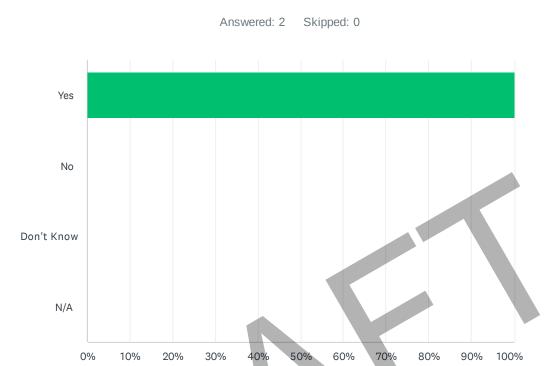
ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	50.00%	1
Don't Know	50.00%	1
Other (please specify)	0.00%	0
TOTAL		2

Q5 Does your community and Essex County collaborate on emergency planning, such as by participating on a planning team or providing comments on draft plans? Emergency planning can include comprehensive emergency operations planning, continuity of government planning, evacuation and sheltering plans, etc.



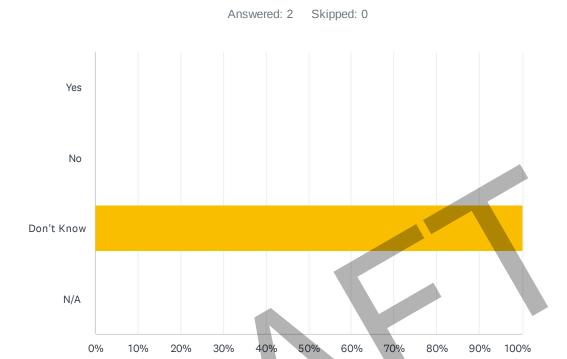
ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	2
Don't Know	0.00%	0
TOTAL		2

Q6 Does your community have access to contact information for Essex County's emergency operations center?



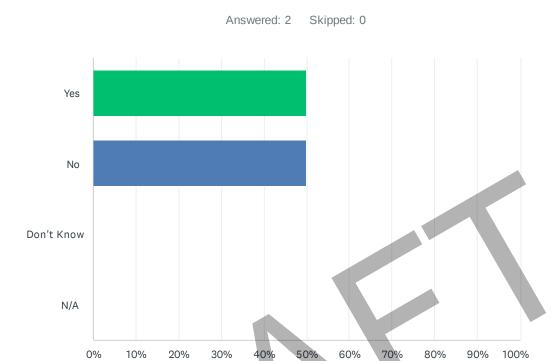
ANSWER CHOICES	RESPONSES
Yes	100.00%
No	0.00%
Don't Know	0.00%
N/A	0.00%
TOTAL	2

Q7 Does your community share risk and vulnerability assessments (e.g., flood mapping, GIS, Hazus, etc.) with Essex County?



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	0.00%	0
Don't Know	100.00%	2
N/A	0.00%	0
TOTAL		2

Q8 Is information regarding mitigation projects shared during planning and implementation?



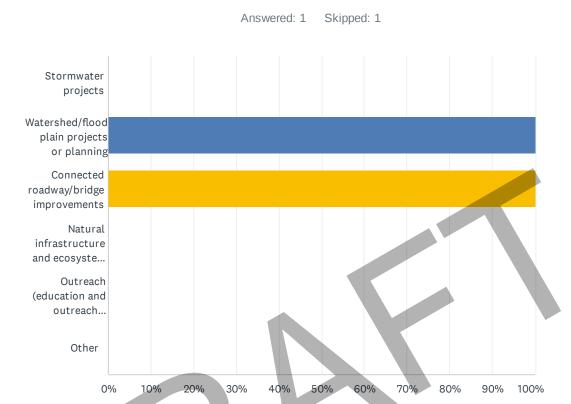
ANSWER CHOICES	RESPONSES	
Yes	50.00%	1
No	50.00%	1
Don't Know	0.00%	0
N/A	0.00%	0
TOTAL		2

Q9 Please describe any situations or hazards that are of concern to both your community and Essex 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 they failed?

Answered: 2 Skipped: 0



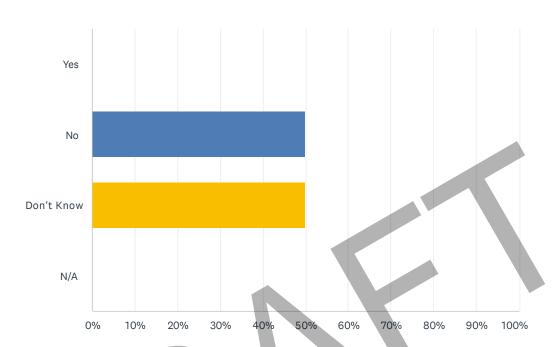
Q10 Are you aware of any projects for the following that requires cross-collaboration between jurisdictional boundaries?



ANSWER CHOICES	RESPONSES	
Stormwater projects	0.00%	0
Watershed/floodplain projects or planning	100.00%	1
Connected roadway/bridge improvements	100.00%	1
Natural infrastructure and ecosystems restoration	0.00%	0
Outreach (education and outreach campaigns, programs for public information, etc.)	0.00%	0
Other	0.00%	0
Total Respondents: 1		

Q11 Have your community and Essex County collaborated on hazard mitigation related grant applications?





ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	50.00%	1
Don't Know	50.00%	1
N/A	0.00%	0
TOTAL		2

Q12 Are you aware of any organizations that carry out education and outreach regarding hazards in both your community and Essex County?

Answered: 1 Skipped: 1



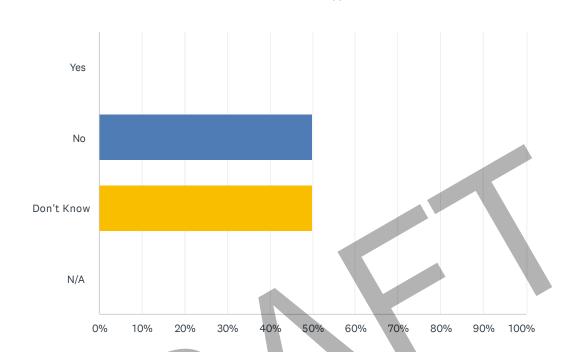
Q13 What are opportunities or ideas to optimize cooperation with Essex County on emergency management operations and hazard mitigation projects?

Answered: 1 Skipped: 1



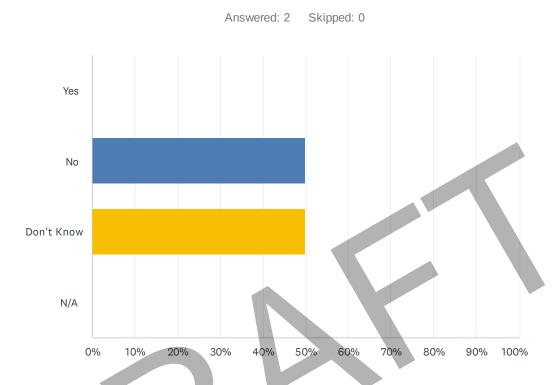
Q14 Do you collaborate with Essex County on establishing evacuation routes and alternate evacuation routes?





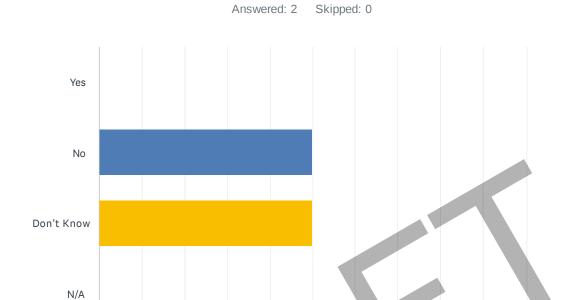
ANSWER CHOICES	RESPONSES
Yes	0.00%
No	50.00% 1
Don't Know	50.00% 1
N/A	0.00%
TOTAL	2

Q15 Do you and Essex County consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	50.00%	1
Don't Know	50.00%	1
N/A	0.00%	0
TOTAL		2

Q16 Are evacuation routes maintained to the same level of protection across jurisdictional lines?



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	50.00%	1
Don't Know	50.00%	1
N/A	0.00%	0
TOTAL		2

0%

10%

20%

30%

60%

70%

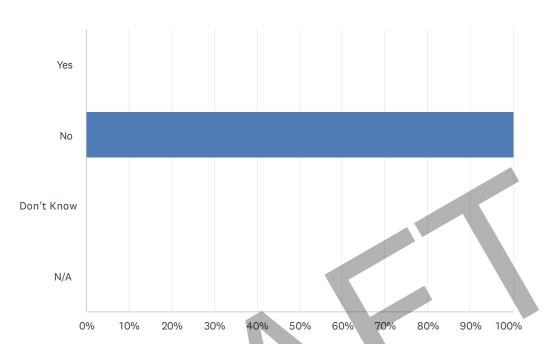
80%

90%

100%

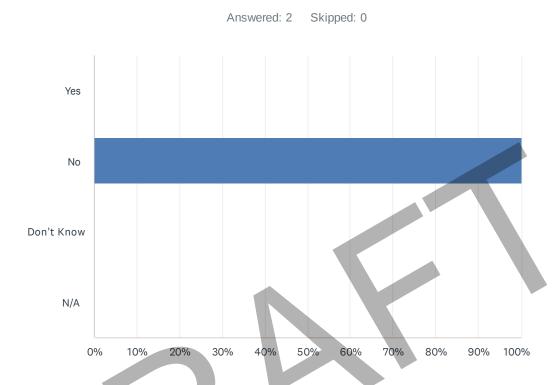
Q17 Do you collaborate with Essex County on establishing shelters?





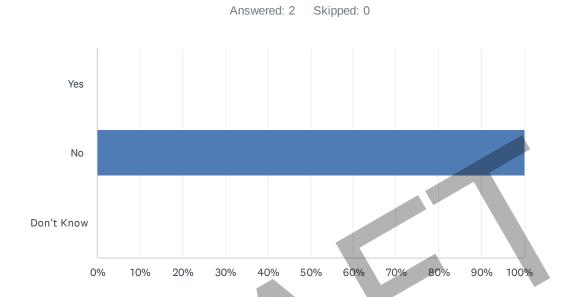
ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	2
Don't Know	0.00%	0
N/A	0.00%	0
TOTAL		2

Q18 Do you and Essex County consult with one another before making sheltering decisions that would impact one another (recommending shelters in neighboring communities)?



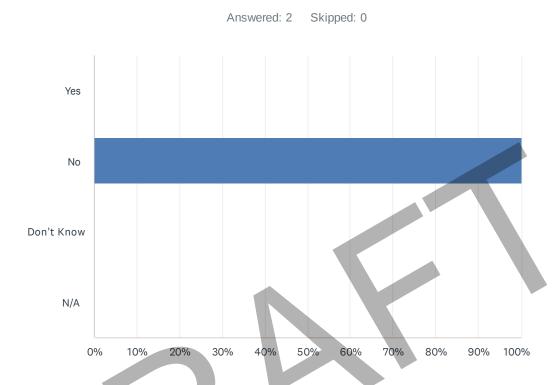
ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	2
Don't Know	0.00%	0
N/A	0.00%	0
TOTAL		2

Q19 Do you and Essex County share any spaces suitable for temporary housing? This includes locations suitable to place temporary housing units to house residents displaced by a disaster.



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	2
Don't Know	0.00%	0
TOTAL		2

Q20 Do you and Essex County consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	2
Don't Know	0.00%	0
N/A	0.00%	0
TOTAL		2

Q21 Do you have any questions or comments for Essex County?

Answered: 0 Skipped: 2





APPENDIX E: RISK ASSESSMENT SUPPLEMENT

2020 Essex County Hazard Mitigation Plan included natural and non-natural hazards. Following review of the previous hazard list, FEMA's latest guidance, available funding resources, and the scope of other planning efforts including Emergency Operation Plans, the Essex County Steering Committee and Planning Partnership decided to have the 2025 Essex County Hazard Mitigation Plan focus on natural hazards. The previous natural hazards were maintained as hazards of concern with transportation failure and utility interruption included in the applicable hazards of concern as cascading impacts.

The following non-natural hazards were discontinued as hazards of concern and the previously developed information on the hazards is preserved in this appendix.

1.1 CIVIL DISORDER

1.1.1 Hazard Description

Civil disorder is a broad term that is typically used by law enforcement to describe one or more forms of unrest caused by a group of people. It involves a disruption of the typical social order that can involve a strike or protest, and it can be peaceful or involve violence (NJOEM 2019). Demonstrations, civil unrest, public disorder, and riots happen for a number of reasons that include economic hardships, social injustices, ethnic differences, objections to word organizations or certain governments, political grievances, and terrorist acts. An event can be triggered by a single cause or a combination of causes (U.S. Army 2005).

Civil disturbances can take the form of small gatherings or large groups blocking or impeding access to a building or disrupting normal activities by generating noise and intimidating people. Demonstrations can range from a peaceful sit-in to a full-scale riot, in which a mob burns or otherwise destroys property and terrorizes individuals. Even in its more passive forms, a group that blocks roadways, sidewalks, or buildings interferes with public order. Often protests intended to be a peaceful demonstration to the public and the government can escalate into general chaos (NJOEM 2019).

There are two types of large gatherings typically associated with civil disturbances: a crowd and a mob. A crowd can be identified as causal, cohesive, expressive, or aggressive (Blumer 1946):

- Casual Crowd: A casual crowd is a group of people who happen to be in the same place at the same time. Violent conduct does not occur.
- Cohesive Crowd: A cohesive crowd consists of members who are involved in some type of unified behavior. Members of this group are involved in some type of common activity, such as worshipping, dancing, or watching a sporting event. Members of these crowds may have intense internal discipline and require substantial provocation to arouse to action.
- Expressive Crowd: An expressive crowd is one held together by a common commitment or purpose.
 They may not be formally organized and are assembled as an expression of common sentiment or frustration. Members wish to be seen as a formidable influence. One of the best examples of this type is a group assembled to protest.





- Aggressive Crowd: An aggressive crowd is composed of individuals who have assembled for a specific purpose. This crowd often has leaders who attempt to arouse the members or motivate them to action.
 Members are noisy and threatening and will taunt authorities. They may be more impulsive and emotional and require only minimal stimulation to arouse violence. Examples of this type of crowd could include demonstrators and strikers, though not all demonstrators and strikers are aggressive.
 - A mob can be defined as a large disorderly crowd or throng. Mobs are usually emotional, loud, tumultuous, violent, and lawless. Similar to crowds, mobs have different levels of commitment, and can be classified into the following four categories (Alvarez and Bachman 2007):
- Aggressive Mob: An aggressive mob is one that attacks, riots, and terrorizes. The object of violence may be a person, property, or both. An aggressive mob is distinguished from an aggressive crowd only by lawless activity. Examples of aggressive mobs are the inmate mobs in prisons and jails, mobs that act out their frustrations after political defeat, or violent mobs at political protests or rallies.
- Escape Mob: An escape mob is attempting to flee from something such as a fire, bomb, flood, or other catastrophe. Members of escape mobs are generally difficult to control and can be characterized by unreasoning terror.
- Acquisitive Mob: An acquisitive mob is one motivated by a desire to acquire something. Riots caused
 by other factors often turn into looting sprees. This mob exploits an authority's lack of control in
 safeguarding property.
- Expressive Mob: An expressive mob is one that expresses fervor or revelry following some sporting event, religious activity, or celebration. Members experience a release of pent up emotions in highly charged situations.

Civil unrest and disturbances affect the following factions of society:

- The Public: The general population could serve as participants or targets in actions of civil unrest. Wide spread unrest could cause fear amongst the populace and cause them to be absent from school or work activities. During an event, bystanders may be harmed because of the activities of participants.
- Responders: Responses to civil unrest events are generally handled at the local level. In a large event, the resources of a local jurisdiction may be exceeded. In this instance, State resources would be activated to fill the need. During an event, responders may become targets, which could hamper their effectiveness.
- Continuity of Operations, including delivery of services: The outbreak of widespread rioting or looting could have potential impact on the State's ability to provide services and conduct its normal operations.
 Protesters could occupy government buildings and interrupt the normal functions of government, or targeted attacks on government facilities could interrupt operations entirely.
- Property: Private property often serves as a target in instances of civil unrest. Businesses can be targeted for looting or vandalism. If an event is particularly large, damage could reach millions of dollars and recovery could take years.
- Facilities: Often in acts of civil unrest government facilities become the focal point of protests or targets for vandalism. Damage suffered during an event or the inability of a worker to enter a facility may greatly reduce a facility's effective capacity or close it completely.





- Infrastructure: Similar to government facilities, public and private infrastructure can become targets of civil unrest. Damage to transportation, communications, or utilities infrastructure could further exacerbate the situation.
- Environment: Normally, instance of civil unrest will have a minimal impact on the environment. However, if petroleum or other chemical facilities were a target for vandalism or large-scale fires occurred, the impact on the environment could be significant.
- Economic Condition of the State: Civil unrest could prove economically crippling to the State of New Jersey. Large-scale events are usually accompanied by wide-spread absenteeism and damage to private property.
- Public Confidence in the State's Governance: If an event becomes prolonged or is perceived to be mismanaged, it could greatly decrease public confidence in the governance of the State. If the response is seen to be inadequate, individuals may attempt to protect their property by their own means and further degrade the situation.

Civil disturbances often occur with little to no warning; however, certain events may trigger riots. As demonstrated in the Previous Occurrences and Losses subsection and discussions regarding severity, riots can occur as a result of controversial court rulings, unfair working conditions, or general unrest. Riots can also be triggered as a result of favorable or unfavorable sports outcomes. Thus, generally there will be a certain degree of warning time that a riot may occur; however, achieving certainty that an incident is imminent is not possible.

Civil disorders can result in numerous secondary hazards. Depending on the size and scope of the incident, civil unrest may lead to widespread urban fire, utility failure, transportation interruption, and environmental hazards. There is potential for a mass casualty incident to occur during the course of a civil disorder event should rioters or protestors become violent and clash with law enforcement or opposing groups. This could lead to possible casualties or fatalities. The most significant impact of civil unrest is the secondary hazard of interruption of continuity of government, which can also lead to several of the aforementioned secondary hazards. The extent of secondary hazards will vary significantly based on the extent and nature of the civil unrest.

In the State of New Jersey, a municipality in which a civil disorder occurs bears the first and primary responsibility to control the disturbance. Civil unrest that remains uncontrolled warrants local mutual aid from neighboring municipal and/or county resources. If the civil unrest remains beyond the capabilities of local law enforcement agencies alone, limited State Police assistance may be requested. If the restoration of law and order is beyond local, county and state abilities, the Governor may declare a State of Emergency calling on federal support such as the New Jersey National Guard to restore order (NJOEM 2011).

Civil disorder can also be identified as crime, which is classified into four major classifications: violent crime, property crime, public order crime, and hate crime. Violent crimes are physical acts against an individual such as murder, robbery, or assault. Property crimes are acts against the property of others such as burglary, theft, or vandalism. Public order crimes are crimes that have no specific victim, such as prostitution, drugs, or insider trading. Hate crimes can be either violent or property crimes motivated by bias against a particular social group (Essex County HMP 2007).





1.1.2 Location

Government facilities, landmarks, prisons, and universities are common sites where crowds and mobs may gather. The concentration of buildings in and density of northeastern New Jersey, and State government buildings in Trenton may be targets of civil disturbance. New Jersey also has correctional facilities, treatment units, and youth development centers, as well as federal prison facilities and local and private facilities throughout the State that may be targets for civil unrest (NJOEM 2019). Figure 1 illustrates historic civil disorder events in the State since the early 1900's with several that have occurred in Essex County.

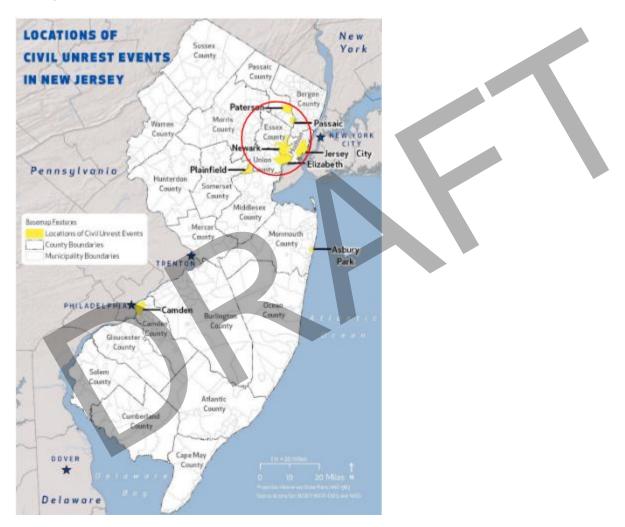


Figure 1 Locations of Civil Unrest Events in New Jersey from 1913 to Present

Source: NJOEM 2019

The red circle marks the location of Essex County.

1.1.3 Extent





The magnitude or severity of a civil disorder depends on the nature of the disturbance. They can take form as small gatherings or large groups blocking access to buildings or disrupting normal activities. They can range from peaceful sit-ins to a full-scale riot (NJOEM 2019).

1.2 CYBER ATTACK

1.2.1 Hazard Description

Cyber terrorism is the use of existing computers and information, particularly over the Internet, to cause physical or financial harm or a severe disruption of infrastructure service. Transportation, public safety, and utility services are all critical, and are highly dependent on information technology. The motive behind such disruptions can be driven by religious, political, or other objectives. Three kinds of attacks that can be conducted on computers include attacks of physical means, electronic means, and attacks using malicious code (NJOEM 2019).

Cyber-attacks differ by motive, attack type and vector, and perpetrator profile. Motives for cyber-attacks can vary, ranging from the pursuit of financial gain to political or social aims. Cyber threats are difficult to identify and comprehend. Types of threats include viruses erasing entire systems, intruders breaking into systems and altering files, intruders using someone's personal computer to attack others, or intruders stealing confidential information. The spectrum of cyber risks is limitless, with threats having a wide-range of effects on the individual, community, organizational, and national threat (FEMA 2013). These risks include:

- Organized cybercrime, state-sponsored hackers, and cyber espionage can pose national security risks to the U.S.
- Transportation, power, and other services may be disrupted by large scale cyber incidents. The extent
 of the disruption is highly uncertain as it will be determined by many unknown factors such as the
 target and size of the incident.
- Vulnerability to data breach and loss increases if an organization's network is compromised. Information about a company, its employees, and its customers can be at risk.
- Individually-owned devices such as computers, tablets, mobile phones, and gaming systems that connect to the internet are vulnerable to intrusion. Personal information may be at risk without proper security (FEMA 2013).

Cyber terrorism is the use of existing computers and information, particularly over the Internet, to cause physical or financial harm or a severe disruption of infrastructure service. Transportation, public safety, and utility services are all critical, and are highly dependent on information technology. The motive behind such disruptions can be driven by religious, political, or other objectives. Three kinds of attacks that can be conducted on computers include attacks of physical means, electronic means, and attacks using malicious code (Waldron 2011). Specifically, these types of include:

• Directing conventional kinetic weapons against computer equipment, a computer facility, or transmission lines to create a physical attack that disrupts the reliability of equipment.





- The power of electromagnetic energy, most commonly in the form of an electromagnetic pulse (EMP), can be used to create an electronic attack (EA) directed against computer equipment or data transmissions. By overheating circuitry or jamming communications, an EA disrupts the reliability of equipment and the integrity of data.
- Malicious code can be used to create a cyber-attack, or computer network attack (CNA), directed
 against computer processing code, instruction logic, or data. The code can generate a stream of
 malicious network packets that can disrupt data or logic through exploiting vulnerability in computer
 software, or a weakness in the computer security practices of an organization. This type of cyber-attack
 can disrupt the reliability of equipment, the integrity of data, and the confidentiality of communications
 (Wilson and Clay 2007).

Cyber terrorists typically have two broad motivations to carry out an attack. These motivations include:

- Effects-based: Cyber terrorism exists when computer attacks result in effects that are disruptive enough to generate fear comparable to a traditional act of terrorism.
- Intent-based: Cyber terrorism exists when unlawful or politically motivated computer attacks are done to intimidate or coerce a government or people to further a political objective, or to cause grave harm or severe economic damage (Rollins and Clay 2007).

In terms of specific attacks on computers, cyber terrorists have the ability to attack several types of computer systems in a variety of ways. The systems are summarized in Table 1 Computer Systems that can be Attacked.

Table 1 Computer Systems that can be Attacked

Computer System	Description
All system and network devices BIND weaknesses	The Berkeley Internet Name Domain (BIND) package is the most widely used implementation of Domain Name Service (DNS) by which systems on the Internet are located by name, without having to know specific Internet protocol (IP) addresses. In a typical example of a BIND attack, intruders erase system logs and install tools to gain administrative access. They then compile and install Internet Relay Chat (IRC) utilities and network scanning tools, which are used to scan more than a dozen class-B networks in search of additional systems running vulnerable versions of BIND. In a matter of minutes, they can use the compromised system to attack hundreds of remote systems.
Vulnerable Common Gateway Interface (CGI) programs and application extensions (such as ColdFusion) installed on Web servers (multiple UNIX and Linux systems)	Most Web servers support CGI for data collection and verification. Intruders are known to have exploited vulnerable CGI programs to vandalize Web pages and steal credit cards.
RPC weaknesses (all Web servers)	Remote procedure calls (RPC) allow programs on one computer to execute programs on a second computer. They are widely used to access network services





Computer System	Description
	such as shared files in the Network File System (NFS). There is compelling evidence that the vast majority of service attacks launched during 1999 and early 2000 were executed by systems that had been victimized because they had RPC vulnerabilities. In 1998, the broadly successful attack on U.S. military systems during the Solar Sunrise incident also exploited an RPC flaw found on hundreds of Department of Defense systems.
RDS security hole in Microsoft IIS (multiple UNIX and Linux systems)	Programming flaws in Microsoft's Internet Information Server (IIS) used to host websites deployed on Microsoft Windows NT and Windows 2000 are employed by malicious users to run remote commands with administrator privileges. Experts who developed the "Top Ten" list of the most exploited internet security flaws believe that exploits of other IIS flaws, such as .HTR files, are at least as common as exploits of Remote Desktop Services (RDS).
Sadmind (Solaris machines only)	Global file sharing and inappropriate information sharing via NetBIOS and Windows NT ports allow file sharing over networks. When improperly configured, they can expose critical system files or give full file system access to hostile parties.
User IDs, especially root/administrator with no or weak passwords (UNIX, Windows, and Macintosh systems)	Some systems come with "demo" or "guest" accounts with no passwords or with widely- known default passwords. Service workers often leave maintenance accounts with no passwords, while some database management systems install administration accounts with default passwords. In addition, busy system administrators often select system passwords that are easily guessable ("love," "money," "wizard" are common) or use a blank password. Many attackers try default passwords and then try to guess passwords before resorting to more sophisticated methods.
IMAP and POP buffer overflow vulnerabilities or incorrect configuration (all systems)	Internet message access protocol (IMAP) and Post Office Protocol (POP) are popular remote access mail protocols, allowing users to access their e-mail accounts. The "open access" nature of these services makes them especially vulnerable to exploitation because openings are frequently left in firewalls to allow for external e-mail access. Attackers who exploit flaws in IMAP or POP often gain instant root- level control.
Default SNMP community strings set to "public" and "private" (multiple UNIX and Linux systems) Source: NJOEM 2019	The Simple Network Management Protocol (SNMP) is widely used by network administrators to monitor and administer all types of network-connected devices, ranging from routers to printers to computers. SNMP uses an unencrypted "community string" as its only authentication mechanism. Lack of encryption creates one level of security vulnerability, but the default community string used by the vast majority of SNMP devices is "public," with a few clever network equipment vendors changing the string to "private," which presents a greater security risk. Attackers can use this vulnerability in SNMP to reconfigure or shut down devices remotely.

Source: NJOEM 2019

In addition to the motivations for cyber terrorism and the vulnerable systems, cyber-attacks can be further divided by the complexity of the attack. The categories of attacks include:

• Simple-Unstructured: Simple-unstructured attacks are the most common. These are amateurish attacks with relatively minimal consequences.





- Advanced-Structured: Advanced-structured attacks are more sophisticated and consequential and have a greater emphasis on targeting victims prior to an attack, resulting in a more debilitating effect.
- Complex-Coordinated: Complex-coordinated attacks are the most advanced and most troublesome type of attack where success could mean a network shutdown.

Because virtually all critical systems are reliant upon computer systems, the secondary hazards that could result from a cyber terrorism attack could be devastating. For example, many of New Jersey's roadway systems rely on sophisticated traffic control systems that prevent gridlock and accidents daily. Without these systems, the risk of not only auto accidents increases but also hazardous materials in-transit incidents. Additionally, a cyber-attack on a nuclear power plant could have devastating consequences should the plant suffer an intentional catastrophic failure. A cyber-attack could also completely incapacitate the communications infrastructure not only in New Jersey but across the United States, leading to disturbing secondary consequences and hazards. Public Safety Answering Points could be targeted by cyber-attacks, and if affected, there could be significant impacts to public safety response and dispatching of emergency services.

Because the power grid is also largely controlled by computer systems, a widespread power outage is also a possibility. A failure of the power grid would impact individuals reliant on power such as those with medical needs. The number of critical systems reliant on computer systems are numerous, thus disruption of one or more of the systems would cause severe secondary-cascading hazards. Secondary impacts could also affect private structures and systems within them: HVAC systems, life support systems, and security systems. Power outage caused from cyber attacks can also affect individuals who are dependent on medical equipment.

Since cyber security is a fairly new concept, there are limited regulations in place. The United States Department of Homeland Security (DHS) recognizes the threat of a potential cyber-attack and has an established approach meant to safeguard critical infrastructure in cyberspace. DHS coordinates with other agencies and partners to share information on and analysis of cyber threats and vulnerabilities and recognizes cyber security as a main aspect of their risk management strategy (NJOEM 2019).

In Essex County, the Prosecutor's Office formed a Cyber Crimes Unit in December 2010. This was created to investigate child pornography, computer fraud, cyber-stalking, cyber bullying, and the use of the internet and other technology in crimes. The Cyber Crimes Unit works with local, state and federal law enforcement agencies (Essex County Prosecutors Office 2019).

The New Jersey Cybersecurity and Communications Integration Cell (NJCCIC) was established in 2015 in order to address New Jersey's vulnerability to potential occurrences of a cyber-attack. NJCCIC focuses on information sharing, threat analysis and incident reporting with the intent of promoting awareness of the potential threat New Jersey faces to cyber-attack (NJOEM 2019).

1.2.2 Location

Cyber threats to critical infrastructures can be posed by anyone with the capability, technology, opportunity, and intent to do harm. Potential threats can be foreign or domestic, internal or external, State-sponsored





or a single rogue element. Terrorists, insiders, disgruntled employees, and hackers are included in this profile. The fact that most of the nation's vital services are delivered by private companies creates a significant challenge in assigning the responsibility for protecting our critical infrastructures from cyberattacks. Across New Jersey, countless systems rely on computers for day-to-day operations including but not limited to traffic signals, power plants, HVAC systems, as well as systems responsible for ensuing New Jersey's State government can operate. While these are just a few examples of critical systems vulnerable to cyber-attacks, it should be noted that an attack could cripple not only the operations of New Jersey's systems but also the economy (NJOEM 2019).

New Jersey remains a valuable target as it possesses a wealth of critical information infrastructure, much of which is inherently interdependent. New Jersey is strategically located along a heavy transit corridor for people and goods, and is a major node along the fiber path through the northeastern United States, connecting New Jersey to Philadelphia and Washington, D.C. Furthermore, New Jersey is one of the wealthiest states in the country and is home to many Fortune 500 companies. Any disruption to the State's economy could have a drastic impact on the national economy and thus the nation's economic stability (New Jersey Office of Homeland Security and Preparedness [NJ OHSP] 2008).

In Essex County, there are several Fortune 500 companies. Prudential Financial is located in Newark, ranking 2nd in the State for revenue (\$59.7 million). Automatic Data Processing in located in Roseland, ranking 9th in the State for revenue (\$12.4 million). Lastly, Public Service Enterprise Group is located in Newark and ranks13th in the State for revenue (\$9.1 million) (Choose New Jersey 2019). Any disruption in the County's government could have an impact on the State's economy.

1.2.3 Extent

The magnitude of extent of an incident will vary greatly based on the extent and duration of the impact. Additionally, the extent will vary based upon which specific system is affected by an attack, the warning time, and ability to preempt an attack.

A cyber-attack can affect a variety of sectors with potentially severe consequences. The following areas may be affected by an attack:

- Android: Malicious software designed to exploit the Android operating systems (OS) running on smartphones, tablets, and other devices. Some variants of Android malware have the capability of disabling the device, allowing a malicious actor to remotely control the device, track the user's activity, lock the device, or encrypt or steal personal information transmitted from or stored on the device. As users are increasingly turning to mobile devices for both business and personal use, cyber threat actors are devoting their efforts to developing malware designed to compromise the device software.
- Botnets: A group of internet-connected computers and devices that have been infected by malware
 that allows a malicious actor to control them remotely. The malicious actor then uses the botnet for
 nefarious purposes such as sending spam email, stealing data, spreading additional malware
 infections to other devices, generating illicit advertising revenue through click-fraud, mining
 cryptocurrencies, or conducting distributed denial-of-service (DDoS) attacks. In the cases where
 botnets are used to conduct DDoS attacks, these infected devices are used to generate an excessive





- amount of network traffic designed to overwhelm a website, server, or online service to the point that legitimate users cannot access it.
- Exploit Kits: Toolkits that automate the exploitation of vulnerabilities in popular software applications
 to maximize successful infections and serve as a platform to deliver malicious payloads such as
 Trojans, spyware, ransomware, and other malicious software. Most users will encounter EKs from
 visiting seemingly legitimate, high-traffic websites that either contain links to EKs embedded within
 malicious advertising (malvertising) or have malicious code hidden directly within the website itself.
 Malicious URLs linking to EKs are commonly distributed through spam email and spear-phishing
 campaigns.
- ICS: A collective term for several types of control systems and other equipment used to operate and/or automate industrial processes and includes supervisory control and data acquisition (SCADA) systems often incorrectly used interchangeably with ICS − and distributed control systems (DCS).

 Malicious software designed to exploit Apple's iOS operating system running on smartphones, tablets, and other devices. Some variants of iOS malware have the capability of disabling the device, allowing a malicious actor to remotely control the device, track the user's activity, lock the device, or encrypt or steal personal information transmitted from or stored on the device. As users are increasingly turning to mobile devices for both business and personal use, cyber threat actors are increasingly devoting their efforts to developing malware designed to compromise mobile devices, including operating systems, like iOS, and applications, like those available in the App Store. Android devices have historically seen more malware threats than iOS largely due to the open-source operating system; however, malware specifically targeting iOS has increased in the last two years.
- MACOS: Though the majority of known malware targeting operating systems are made to exploit Microsoft Windows, devices running macOS are vulnerable as well. Furthermore, as macOS has become increasingly popular, more malware has been created to target macOS. More macOS malware was discovered in the second quarter of 2017 than in all of 2016.
- Point of Sale (PoS): Malicious software designed to steal credit and debit card data from payment processing systems, known as point-of-sale (PoS) terminals.
- Ransomware: Malicious software (malware) that attempts to extort money from victims by restricting access to a computer system or files. The most prevalent form of this profit-motivated malware is crypto-ransomware, which encrypts files into encoded messages that can only be decrypted (decoded) with a key held by the malicious actor.
- Trojans: A type of malware that, unlike viruses and worms, does not self-replicate. Named after the
 mythological wooden horse used to sneak Greek warriors through the gates of Troy, trojans are often
 disguised as legitimate software to avoid detection or trick users into installing the trojan onto their
 system. Users can be exposed to trojans through numerous vectors, such as clicking on links or
 opening attachments in phishing emails, other forms of social engineering, malicious advertising
 (malvertisting), or by visiting compromised websites, known as drive-by downloads. Once a trojan
 executes, it often downloads other malware onto the system or provides an attacker with a backdoor
 to gain access and conduct further malicious activity, such as stealing, deleting, or modifying data
 (NJCCIC 2019).





The extent, nature, and timing of cyber incidents are impossible to predict. There may or may not be any warning. Some cyber incidents take a long time (weeks, months or even years) to be discovered and identified (FEMA 2013). The magnitude of severity of an incident will vary greatly based on the extent and duration of the impact. The extent will also vary based upon which specific system is affected by an attack, the warning time, and the ability to preempt an attack.

A cyber terrorism attack can occur with relatively little or no warning. The New Jersey Office of Homeland and Preparedness is charged with gathering intelligence and monitoring cyber terrorism threats affecting the State. At the federal level, numerous agencies (such as FBI and CIA) are working collaboratively to thwart cyber terrorism attacks. The warning time depends upon the ability of these agencies to recognize that a threat exists and their ability to stop the attack. Even with these agencies on task to monitor cyber threats, a cyber-attack can occur with no warning (NJOEM 2019).

The Multi-State Information Sharing and Analysis Center (MS-ISAC) created the Cyber Alert Level Indicator. It shows the current level of malicious cyber activity and reflects the potential for, or actual damage. There are five cyber alert levels: low, guarded, elevated, high, and severe. Each level is indicated by a color. The following is additional information regarding these levels:

- Low Indicates a low risk. No unusual activity exists beyond the normal concern for known hacking activities, known viruses, or other malicious activity.
- **Guarded** Indicates a general risk of increased hacking, virus, or other malicious activity. The potential exists for malicious cyber activities, but no known exploits have been identified, or known exploits have been identified but no significant impact has occurred.
- Elevated Indicates a significant risk due to increased hacking, virus, or other malicious activity which
 compromises systems or diminishes service. At this level, there is known vulnerabilities that are being
 exploited with a moderate level of damage or disruption, or the potential for significant damage or
 disruption is high.
- High Indicates a high risk of increased hacking, virus or other malicious cyber activity which targets
 or compromises core infrastructure, causes multiple service outages, multiple system compromises
 or compromises critical infrastructure. At this level, vulnerabilities are being exploited with a high level
 of damage or disruption, or the potential for severe damage or disruption is high.
- Severe Indicates a severe risk of hacking, virus or other malicious activity resulting in wide-spread outages and/or significantly destructive compromises to systems with no known remedy or debilitates one or more critical infrastructure sectors. At this level, vulnerabilities are being exploited with a severe level or widespread level of damage or disruption of Critical Infrastructure Assets.

1.3 ECONOMIC COLLAPSE

1.3.1 Hazard Description

Economic collapse is a breakdown in normal commerce facilitated by actions such as the destabilization of currency and/or hyperinflation, which results in social chaos or civil unrest. The term describes a variety





of economic conditions from severe depressions with high unemployment and bankruptcy such as the Depression of the 1930s in the United States, to breakdowns of normal economic conditions such as hyperinflation or the effects of a sharp decline in population that causes an economic downturn. Although a true economic collapse has never occurred in the United States, the Great Depression was the closest that the United States came to suffer a true collapse (NJOEM2019).

1.3.2 Location

An economic collapse, depending on the severity, may impact all of Essex County. Economic collapse would likely affect beyond the geographic boundary of Essex County and could impact a larger region or the United States. Surrounding counties or regions could be impacted by displaced population from Essex County or instances of civil disorder which could potentially occur.

1.3.3 Extent

Economic collapse could have significant impacts on Essex County. The working population of Essex County would be directly impacted by an economic collapse due to reduced or total loss of income. The 2013-2017 American Community Survey 5-Year Estimates indicates approximately 371,793 people are employed age 16 years and older in Essex County (U.S. Census Bureau, 2018). This number may not include the number of people who commute into Essex County from surrounding communities. Significant changes in population may occur if individuals move to find other means of employment or areas with lower cost of living similar to what occurred during the Great Depression (Spector 2012). Businesses may shutdown and go out of business which would lead to a reduction in tax revenue for Essex County.

Secondary impacts from economic collapse could be outbreaks of civil disorder and a general breakdown of law and order in Essex County. Utility companies may go out of business and therefore cause mass power outage. The number of abandoned or blighted properties would increase as a result of population decreases in the County. The quality of housing can contribute to general well-being or cause poor health. Exposure to poor indoor air quality, mold, lead, and rodent and cockroach infestations can lead to asthma and other respiratory illnesses, lead poisoning, learning and behavioral problems, and other serious health issues (de Leon & Schilling 2017). Disease outbreak is also a possible secondary hazard should there be a breakdown in public health and medical services.

1.4 HAZARDOUS SUBSTANCES

1.4.1 Hazard Description

Hazardous substances are substances that are considered severely harmful to human health and the environment, as defined by the United States Environmental Protection Agency (USEPA) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (Superfund Law). Many are commonly used substances which are harmless in their normal uses but are quite dangerous if released. The Superfund law designates more than 800 substances as hazardous and identifies many more as potentially hazardous due to their characteristics and the circumstances of their release (USEPA 2013). Superfund's definition of a hazardous substance includes the following:





- Any element, compound, mixture, solution, or substance designated as hazardous under section 102 of CERCLA.
- Any hazardous substance designated under section 311(b)(2)(a) of the Clean Water Act (CWA), or any
 toxic pollutant listed under section 307(a) of the CWA. There are over 400 substances designated as
 either hazardous or toxic under the CWA.
- Any hazardous waste having the characteristics identified or listed under section 3001 of the Resource Conservation and Recovery Act.
- Any hazardous air pollutant listed under section 112 of the Clean Air Act, as amended. There are over 200 substances listed as hazardous air pollutants under the Clean Air Act (CAA).
- Any imminently hazardous chemical substance or mixture which the EPA Administrator has "taken action under" section 7 of the Toxic Substances Control Act (USEPA 2013).

If released or misused, hazardous substances can cause death, serious injury, long-lasting health effects, and damage to structures and other properties, as well as the environment. Many products containing hazardous substances are used and stored in homes and these products are shipped daily on highways, railroads, waterways, and pipelines.

Transportation of hazardous substances on highways involves tanker trucks or trailers, which are responsible for the greatest number of hazard substance release incidents. New Jersey is composed of approximately 39,000 miles of highway, many of which are used to transport hazardous substances (New Jersey Department of Transportation [NJDOT] 2019). These roads cross rivers and streams at many points; hazardous substance spills on roads have the potential to pollute watersheds that serve as domestic water supplies for parts of the State. Potential also exists for hazardous substance releases to occur along rail lines as collisions and derailments of train cars can result in large spills.

Pipelines can also transport hazardous liquids and flammable substances such as natural gas and petroleum. Incidents can occur when pipes corrode, when they are damaged during excavation, incorrectly operated, or damaged by other forces. In New Jersey, most of the large pipeline leaks have been caused by marine traffic hitting or the anchors of ships effecting pipelines in the waterways. In addition, hazardous substances can be transported by aircraft or by watercraft. Crashes, spills of materials, and fires on these vessels can pose a hazard.

Essex County hazardous materials response program has been in effect since 1999 with Nutley as the sole subcontractor for the County Environmental Health Act (CEHA) program. In 2004, Newark also became a subcontractor for hazardous material response for the CEHA program. Nutley handles all of the low concern and emergency responses within Essex County on a daily basis. The partnership between the Essex County Health Department (ECHD), Nutley and Newark have enabled Essex County to increase response capacity. Further, the County has created a mass decontamination program comprised of 10 Essex County municipal fire departments. The decontamination program includes the New Jersey Department of Health decontamination trailer that is operated by Belleville Fire Department. Because of several grants and other initiatives available much needed emergency equipment was purchased that is utilized for low concern, environmental emergency response and terrorist attacks.





1.4.2 Location

The following provides information regarding the location of hazardous substance incidents.

1.4.2.1 Hazardous Substances Fixed Site

Many years ago, numerous wastes were dumped on the ground, in rivers, or left out in the open. As a result, thousands of uncontrolled or abandoned contaminated sites were created. These sites included abandoned warehouses, manufacturing facilities, processing plants, and landfills. In response to concerns regarding health and environmental risks, Congress established the Superfund program in 1980 to clean up these sites. The Superfund program is administered by the USEPA in cooperation with individual states. In New Jersey, the Department of Environmental Protection (NJDEP) Site Remediation Program oversees the Superfund program (NJDEP 2013).

Federal regulations include the CERCLA and the Superfund Amendments and Reauthorization Act (SARA) required that a National Priorities List (NPL) of sites throughout the United States be maintained and revised at least annually (NJDEP 2013).

Fixed-site facilities that use, manufacture, or store hazardous substances in New Jersey pose risk and must comply with Title III of the federal SARA. SARA was signed into law on October 17, 1986. It is a federal law that applies nationwide. It must be realized that this law is linked to N.J.S.A. 34:5A, the New Jersey Worker and Community Right to Know Act. SARA requires the governor of each state to establish a State Emergency Response Commission (SERC). New Jersey's SERC was established by Executive Order on February 13, 1987.

SARA also requires that the emergency planning districts be established by the SERC. The Act specified that these districts can be existing political subdivisions. The function of the emergency planning district is to facilitate preparation and implementation of emergency plans. In New Jersey, all municipalities and counties have been designated emergency planning districts (total of 588). The Local Emergency Planning Committees (LEPC) is the policy body for the emergency planning district (New Jersey Division of Fire Safety 2011).

The State enacted the Toxic Catastrophe Prevention Act (TCPA), N.J.S.A. 13:1K-19 et seq. Currently, implementation of the requirements established under this Act is facilitated by the TCPA Program. Certain industrial facilities using materials considered extraordinarily hazardous must take steps to prevent releases and protect public safety. New Jersey has also mandated that facilities storing large quantities of hazardous substances take preventative measures to reduce the likelihood of a leak or discharge. Established under the New Jersey Spill Compensation and Control Act (N.J.S.A. 58:10-23.11), these requirements include testing and inspection of storage tanks, training of employees, and emergency response planning. The Discharge Prevention Containment and Countermeasure (DPCC) program facilitates implementation of these requirements. Regulations related to reporting of chemical and petroleum discharges are also administered under this program. The Program is sometimes referred to by the acronym DPCC, which refers to an important preparedness document that major facilities develop under the program (NJDEP 2018).





The Community Right to Know (CRTK) program collects, processes, and disseminates the chemical inventory, environmental release and materials accounting data required to be reported under the New Jersey Worker and Community Right to Know Act, N.J.S.A.34:5A and the federal Emergency Planning and Community Right to Know Act of 1986 (EPCRA). EPCRA is also known as Title III of the SARA. This information is used by the public, emergency planners, and first responders to determine the chemical hazards in the community (NJDEP 2012).

The U.S. EPA Hazardous Waste Report, which is a biennial report, collects data on the generation, management, and minimization of hazardous waste. This report provides detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage, and disposal facilities. This report lists 56 facilities in Essex County, with a majority of them located in the City of Newark (U.S. EPA 2017).

Superfund is a program administered by the U.S. EPA to locate, investigate, and cleanup the worst hazardous waste sites throughout the U.S. Data from the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database indicated that Essex County has 75 Superfund sites located throughout the County, with a majority of the sites located in the City of Newark (U.S. EPA 2019).

New Jersey employers, whose businesses are assigned North American Industry Classification System (NAICS) codes listed in the New Jersey Worker and Community Right to Know (CRTK) regulations, are required to submit CRTK surveys listing the environmental hazardous substances (EHSs) present at their facilities in quantities that exceed 500 pounds, unless the EHS is on the federal Emergency Planning and Community Right to Know Act (EPCRA) Section 302 list of extremely hazardous substances with a lower reporting threshold. In addition, Section 312 of EPCRA requires owners and operators of federal facilities and private sector facilities that are subject to the United States Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard to report their inventories of any chemical that requires a Materials Safety Data Sheet (MSDS) and is present on site in quantities that exceed 10,000 pounds, unless the chemical is an Extremely Hazardous Substance with a lower reporting threshold (NJDEP 2014).

Owners and operators of manufacturing, and select non-manufacturing companies, having the equivalent of 10 or more full-time employees, and manufacturing, importing, processing or otherwise using toxic chemicals listed on the EPCRA Section 313 (TRI) list in quantities that exceed specified thresholds, are required to annually report their releases of these chemicals for the previous year. Approximately 500 New Jersey companies are required to file federal Toxic Chemical Release Inventory (TRI) forms. TRI Form R requires the listing of environmental releases, on-site waste management and off-site transfers while the simplified Form A Certification Statement requires the listing of the chemical only. These companies are also required to submit to NJDEP the Release and Pollution Prevention Report (RPPR) listing the quantities of environmental release, on-site waste management, waste transfer, and chemical throughput information. Most of these facilities are also subject to Pollution Prevention Planning Requirements and, therefore, required to report pollution prevention progress information on the RPPR (NJDEP 2014).





The NJDEP maintains a list of Known Contaminated Sites of New Jersey (KCSNJ). It is an inventory that includes all sites in the State where contamination is known to exist. The remediation for these sites is currently active or pending in the NJDEP's Site Remediation Program (SRP). As of 2017, there are over 14,000 KCSNJ sites in New Jersey, with 1,592 of those sites in Essex County.

1.4.2.2 Hazardous Substances In-Transit

Incidents involving hazardous substances in transit can occur anywhere in the State. In Essex County, the major transportation routes include: The Garden State Parkway; I-280; I-80; and I-78. In total, there is approximately 1,767 miles of roadway in the County. Figure 2 shows the major transportation routes in the County.

Hazardous substances incidents may also occur along railways in Essex County. The NJDOT has a vital interest in preserving and improving the rail freight part of its transportation network. Rail shipments allow cost-effective movement of goods with less stress on the State's highway system. Major commodities shipped by rail entail petrochemicals (including plastic pellets), construction materials, food products, raw materials, and finished goods for manufacturers. Of concern for this hazard are rail cars carrying hazardous substances. An accident or release could pose a public safety hazard to the community.

Hazardous substances can also be transported via pipeline across the State. New Jersey has an extensive network of natural gas and petroleum pipelines. Several of the petroleum pipelines originate in the Gulf Coast region (Colonial Pipeline and Buckeye Pipeline). Figure 3 shows the extent and locations of pipelines throughout the northeastern United States.





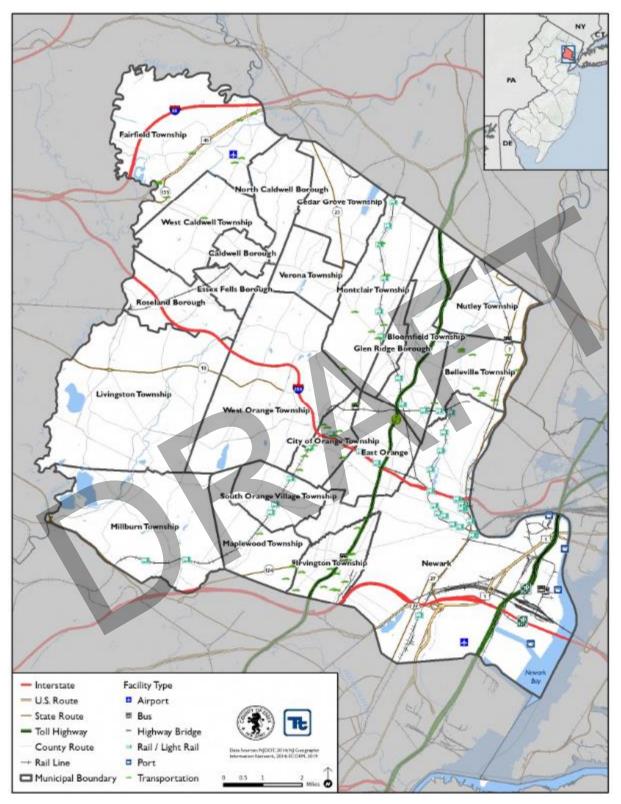


Figure 2 Major Transportation in Essex County





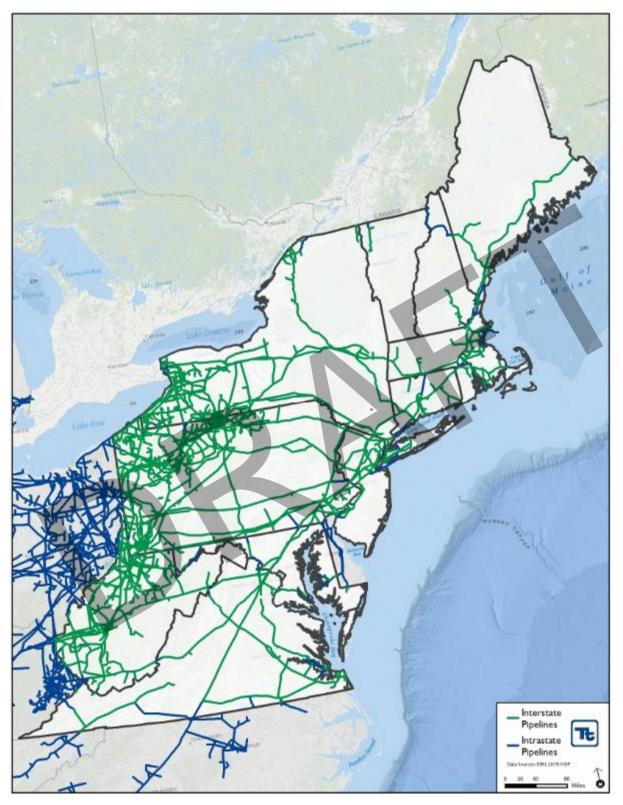


Figure 3 Interstate Natural Gas Pipelines in the Northeast





1.4.2.3 Hazardous Substances Offshore

Offshore hazardous substance incidents have the potential to affect New Jersey because of its vast coastline consisting of rivers, bays, and oceans. New Jersey is a vital link in marine transportation in the Northeast. The State has 14 ports, including the Port of New York and New Jersey, which are a critical link for shipping worldwide. The potential for a hazardous substances incident offshore is possible given the volume of shipping traffic around the State.

New Jersey features the Port of New York and New Jersey system, which includes the New Jersey ports of Port Newark, Elizabeth-Port Authority Marine Terminal, and Port Jersey. The Port of New York and New Jersey is the gateway to one of the most concentrated and affluent consumer markets in the world. It is the largest port on the east coast, and the third-largest port in the nation. In 2016 79,844,000 tons of cargo moved through Port facilities. This included over 6.25 million boxes (PANYNJ Port Planning Summit, 2017). The dollar value of all cargo that moved through the Port exceeded \$200 billion (PANYNJ, 2016). The Port ships a variety of goods, many of which are hazardous. Figure 4 shows the location of the Port of New York and New Jersey. Port Newark is located in the City of Newark, Essex County. Port Newark is managed by the Port Authority of New York and New Jersey (PANYNJ). The Port Newark Container Terminal (PNCT) is located in Port Newark and occupies 259 acres. It handles over 600,000 containers each year and is one of the largest infrastructure projects in New Jersey (PNCT 2014).



Figure 4 Port of New York and New Jersey

Source: Port Authority of New York and New Jersey 2013





1.4.3 Extent

The extent of a hazardous substance release will depend on whether it is from a fixed or mobile source, the size of impact, the toxicity and properties of the substance, duration of the release, and the environmental conditions (for example, wind and precipitation, terrain, etc.).

Hazardous substance releases can contaminate air, water, and soils, possibly resulting in death and/or injuries. Dispersion can take place rapidly when the hazardous substance is transported by water and wind. While often accidental, releases can occur as a result of human carelessness, intentional acts, or natural hazards. When caused by natural hazards, these incidents are known as secondary events. Hazardous substances can include toxic chemicals, radioactive substances, infectious substances, and hazardous wastes. Such releases can affect nearby populations and contaminate critical or sensitive environmental areas.

With a hazardous substance release, whether accidental or intentional, several potentially exacerbating or mitigating circumstances will affect its severity or impact. Mitigating conditions are precautionary measures taken in advance to reduce the impact of a release on the surrounding environment. Primary and secondary containment or shielding by sheltering-in-place measures protects people and property from the harmful effects of a hazardous substance release. Exacerbating conditions, characteristics that can enhance or magnify the effects of a hazardous substance release, include:

- Weather conditions, which affect how the hazard occurs and develops
- Micro-meteorological effects of buildings and terrain, which alters dispersion of hazardous substances on-compliance with applicable codes (such as building or fire codes)
- Maintenance failures (such as fire protection and containment features), which can substantially
 increase the damage to the facility itself and to surrounding buildings

As discussed earlier, the severity of the incident is dependent not only on the circumstances described above, but also with the type of substance released and the distance and related response time for emergency response teams. The areas proximate to the releases are generally at greatest risk; however, depending on the agent, a release can travel great distances or remain present in the environment for a long period of time (i.e. centuries to millennia).

The severity of offshore hazardous substances incidents will vary based on the amount of hazardous substance spilled, the location of the spill, and the prevailing currents. The effects of an accident can have a devastating impact on the environment. An example of the worst-case scenario was the Deepwater Horizon oil spill in 2010, which affected the gulf and the coastline from Texas to Florida and was one of the worst environmental disasters in the United States.

1.5 TERRORISM





1.5.1 Hazard Description

Terrorism is the use of force or violence against persons or property with the intent to intimidate or coerce. Acts of terrorism include threats of terrorism; assassinations; kidnappings; hijackings; bomb scares and bombings; cyber-attacks (computer-based attacks); and the use of chemical, biological, nuclear, and radiological weapons (FEMA 2009).

In 1985, the Federal Bureau of Investigation (FBI) and the New Jersey State Police (NJSP) entered into a partnership to combat domestic and international terrorism operations. Since then, a contingent of Counter Terrorism Bureau detectives have been assigned to participate in the Joint Terrorism Task Forces (JTTF) coordinated through the FBI in Newark, New Jersey, New York City, New York and Philadelphia, Pennsylvania (NJSP 2019). The New Jersey Domestic Security Preparedness Act, signed into law on October 4, 2001, created the Domestic Security Preparedness Task Force as the State's cabinet-level body responsible for setting homeland security and counter-terrorism policy after September 11, 2001. The State Police established a Counter Terrorism Bureau (CTB) in 2003 and the New Jersey Regional Operations Intelligence Center (ROIC) was activated in 2005. The New Jersey Joint Terrorism Task Force (JTTF) North Unit, also known as the Newark JTTF, covers most of the State, while the Philadelphia JTTF covers the Camden area. The U.S. attorney chairs an Anti-Terrorism Advisory Council (ATAC) in Newark (Washington Post 2009).

All county prosecutors are required to designate a Counter-Terrorism Coordinator in their respective counties. The Counter-Terrorism Coordinator is the primary link between all law enforcement agencies in the county and the New Jersey Office of Homeland Security and Preparedness (OHSP). The Essex County Counter-Terrorism Coordinator has obtained the necessary clearances in order to receive classified homeland security briefings from the FBI and the U.S. Department of Homeland Security (Essex County Prosecutor's Office 2010).

In addition to the Counter-Terrorism Coordinator, who also serves as the Chief Assistant Prosecutor in charge of the Homicide, Visible Intermodal Prevention and Response (VIPR) and Arson Units, the Homeland Security Unit is staffed by a Risk Mitigation Planner, who performs vulnerability assessments at the numerous critical infrastructures in the County (Essex County Prosecutor's Office 2010).

The Counter-Terrorism Coordinator also oversees the operations of the Essex County Rapid Deployment Team (RDT), consisting of over 100 sworn law enforcement officers from all law enforcement agencies in the County. The RDT serves as "force-multiplier" capable of deploying quickly to assist other law enforcement agencies in matters of civil disorder, crowd control, infrastructure protection, and natural disaster relief (Essex County Prosecutor's Office 2010). Various types of terrorism are discussed in the sections below.

1.5.1.1 Armed Attacks and Assassinations

Armed attacks include raids and ambushes. Assassinations are the killing of a selected victim, usually by bombings or small arms. Drive-by shootings is a common technique employed by unsophisticated or loosely organized terrorist groups. Historically, terrorists have assassinated specific individuals for psychological effect.





1.5.1.2 Arson and Firebombing

Incendiary devices are inexpensive and easy to hide. Arson and firebombing are easily conducted by terrorist groups that may not be as well organized, equipped, or trained as a major terrorist organization. An act of arson or firebombing against a utility, hotel, government building, or industrial center portrays an image to the public that the ruling government is incapable of maintaining order.

1.5.1.3 Bioterrorism

Bioterrorism refers to the intentional release of toxic biological agents to harm and terrorize civilians, in the name of a political or other cause. The United States Centers for Disease Control and Prevention (CDC) has classified the viruses, bacteria, and toxins that could be used in an attack. Category A Biological Diseases are those most likely to do the most damage. They include:

- Anthrax (Bacillus anthracis)
- Botulism (Clostridium botulinum toxin)
- The Plague (Yersinia pestis)
- Smallpox (Variola major)
- Tularemia (Francisella tularensis)
- Hemorrahagic Fever, due to Ebola Virus or Marburg Virus

1.5.1.4 Bombings and Explosive Attacks

Explosive attack can be defined as an attack in which a bomb and or destructive device is used to destroy, incapacitate, harass, or distract. Bombings are the most common type of terrorist act. Typically, improvised explosive devices are inexpensive and easy to make. Modern devices are smaller and harder to detect and contain very destructive capabilities. Terrorists such as those responsible for this bombing can use materials that are readily available to the average consumer to construct a bomb.

1.5.1.5 Cyber Terrorism

Cyber terrorists use information technology to attack civilians and draw attention to the terrorists' cause. This may mean that they use information technology, such as computer systems or telecommunications, as a tool to orchestrate a traditional attack. More often, cyber terrorism refers to an attack on information technology itself in a way that would radically disrupt networked services. For example, cyber terrorists could disable networked emergency systems or hack into networks housing critical financial information. There is wide disagreement over the extent of the existing threat by cyber terrorists. A full discussion of cyber terrorism is presented in Section 4.3.12 (Cyber Attack).

1.5.1.6 Ecoterrorism

Ecoterrorism is a recently coined term describing violence in the interests of environmentalism. In general, environmental extremists sabotage property to inflict economic damage on industries, businesses, or persons perceived as harming animals or the natural environment. Targets of ecoterrorist attacks have included fur companies, logging companies, and animal research laboratories.

1.5.1.7 Electromagnetic Pulse (EMP)





An EMP is a high-intensity burst of electromagnetic energy caused by the rapid acceleration of charged particles. In an attack, these particles interact and send electrical systems into chaos in three ways: First, the electromagnetic shock disrupts electronics, such as sensors, communications systems, protective systems, computers, and other similar devices. The second component has a slightly smaller range and is similar in effect to lightning. Although protective measures have long been established for lightning strikes, the potential for damage to critical infrastructure from this component exists because it rapidly follows and com-pounds the first component. The final component is slower than the previous two but has a longer duration. It is a pulse that flows through electricity trans-mission lines-damaging distribution centers and fusing power lines. The combination of the three com-ponents can easily cause irreversible damage to many electronic systems (Heritage Foundation 2008).

1.5.1.8 Hijackings and Skyjackings

Hijacking is the seizure by force of a surface vehicle, its passengers, and/or its cargo. Skyjacking is the taking of an aircraft, which creates a mobile, hostage barricade situation; provides terrorists with hostages from many nations; and draws heavy media attention. Skyjacking also provides mobility for the terrorists to relocate the aircraft to a country that supports their cause and provides them with a human shield, making retaliation difficult.

1.5.1.9 Kidnappings and Hostage-Takings

Terrorists use kidnapping and hostage-taking to establish a bargaining position and to elicit publicity. Kidnapping is one of the most difficult acts for a terrorist group to accomplish, but, if a kidnapping is successful, it can gain terrorists money, release of jailed comrades, and publicity for an extended period. Hostage-taking involves the seizure of a facility or location and the taking of hostages present in that facility. Unlike a kidnapping, hostage-taking provokes a confrontation with authorities. It forces authorities to either make dramatic decisions or to comply with the terrorist's demands. It is overt and designed to attract and hold media attention. The terrorists' intended target is the audience affected by the hostage's confinement, not the hostage.

1.5.1.10 Nuclear Terrorism

Nuclear terrorism refers to a number of different ways nuclear materials might be exploited as a terrorist tactic. These include attacking nuclear facilities, purchasing nuclear weapons, or building nuclear weapons or otherwise finding ways to disperse radioactive materials.

1.5.2 Location

Terrorist attacks can occur anywhere; however, the State of New Jersey is a particularly attractive target of a potential terrorist activity because of its dense population and location relative to major urban areas. The State also houses the busiest commuter rail system in the United States, as well as the headquarters of major corporations in economically vital sectors such as the financial and pharmaceutical industries.

Additional targets in New Jersey include the State's critical infrastructure such as utilities, roadways, bridges, tunnels, hospitals, schools, civic centers, and other high-profile venues such as Met Life Stadium and the Prudential Center (City of Newark). The link between New Jersey Transit and New York City also makes this transportation system a target for terrorists. In Essex County, transportation systems available





include large, interconnected rail, roadway, and water transportation networks. Major highways accessible to Essex County includes the Garden State Parkway; New Jersey Turnpike; Interstates 78, 80, and 280; Routes 1-9, 21, 22, 23, 24, and 46; and the Eisenhower Parkway. Public roads have a total mileage of 1,673 miles; total interstate mileage is 27 miles; state highway mileage is 59 miles; county road mileage is 233 miles; and municipal road mileage of 1,330 miles. The County also has three of the nation's major transportation centers, which includes Newark Liberty International Airport, Port Newark, and Penn Station (Essex County 2014).

Jersey City/Newark is one of the 64 urban metropolitan areas that have been designated by the federal government as "high-threat, high-density" with regard to acts of terrorism (Washington Post 2014).

1.5.3 **Extent**

Any acts of terrorism can occur anywhere at any time of day. The National Terrorism Advisory System (NTAS) communicates information about terrorist threats by providing detailed information to the public, government agencies, first responders, airports and other transportation hubs, and the private sector. When there is a threat, an NTAS Alert will be announced by the Secretary of Homeland Security and will be shared with the public. It may include specific information about the nature of the threat, including the geographic region, mode of transportation, or critical infrastructure potentially affected, as well as steps that individuals and communities can take to protect themselves and help prevent, mitigate or respond to the threat. The alert indicates whether the threat is elevated or imminent. Elevated threats are when there is no specific information about the timing or location. Imminent threats are when it is believed the threat is impending or very soon. The alerts will be posted online and released to the news media for distribution. The United States Department of Homeland Security (DHS) will also distribute alerts through its social media channels (U.S. DHS 2013).

The effect of a terrorism event can vary depending on the type of attack and the magnitude of the event or events. A terrorism event can cause public fear regarding the use of mass transportation or leaving their homes in the event of a biological or nuclear attack. Communication systems, both public and private, can fail because of an overwhelming amount of usage or damage to its infrastructure. Healthcare facilities can become quickly inundated and must be prepared to triage injured patients, handle mass casualties, and conduct decontamination operations.

In terms of explosive attacks, Figure 5 summarizes the capacity of different explosives.





Threat	Threat Description	Explosive Capacity	Building Evacuation Distance	Outdoor Evacuation Distance
-1	Small Package/letter	1 lb	40 ft	900 ft
-	Pipe Bomb	5 lb	70 ft	1,200 ft
200	FedEx Package	10 b	90 ft	1,080 ft
11-12	Vest/Container Bombs	20 lb	110 8	1,700 ft
	Parcel Package	50 lb	150 ft	1,850 ft
	Compact Car	500 fb	320 ft	1,900 ft
	Full Size Car/Minivan	1,000 lb	400 ft	2,400 ft
100 mm	Van/SUV/Pickup Truck	4,000 lb	640 ft	3,800 ft
-	Delivery Truck	10,000 fb	860 ft	5,100 ft

Figure 5 Capacity of Different Explosives

Source: NJOEM 2019

There is often very little if any warning time that a terrorist attack is about to occur. It is possible, however, to thwart terrorist attacks through aggressive intelligence monitoring and monitoring of individuals who exhibit radical tendencies. Some terrorist attacks may show warning signs that an incident may occur, such as a suspicious package left unattended. Local, state, and federal officials as well as the general public are responsible for recognizing the warning signs of terrorism incidents and for taking appropriate actions to mitigate against possible attacks. In New Jersey, the coordination, direction, and control of all law enforcement personnel and resources fall under the purview of the Attorney General. Additionally, the New Jersey Office of Homeland Security and Preparedness administers, coordinates, leads, and supervises New Jersey's counter-terrorism efforts.

In New Jersey, the NJOEM, New Jersey Office of Homeland Security and Preparedness (OHSP), and the Regional Operations Intelligence Center (ROIC) have introduced NJ Alert, a mass text and email emergency notification system. During an emergency, NJ Alert assists these agencies in delivering emergency messages to the public through their handheld devices or computers, in addition to the Emergency Alert Systems and Amber Alert (NJOEM 2009)





APPENDIX F: MITIGATION STRATEGY SUPPLEMENT

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

1.1 MITIGATION STRATEGY WORKSHOP RESOURCES

On February 18, 2025, a Mitigation Strategy Workshop was held for all plan participants. Resources available at the workshop included the following to assist with the identification of mitigation alternatives and the development of the mitigation strategy workshops found in Volume II (Jurisdictional Annexes).

- Maps of hazard areas
- NFIP statistics for each jurisdiction
- List of critical facilities and hazard exposure for each jurisdiction
- Public, stakeholder, and neighboring community survey identified problem areas and potential mitigation actions for each jurisdiction

1.2 MITIGATION CATALOG

The following tables presents mitigation ideas organized by hazard of concern and approach to mitigation:

- Manipulate the hazard
- Reduce exposure and vulnerability to the hazard
- Build local capacity to respond to or prepare for the hazard
- Nature-based opportunities

Disease Outbreak

DISEASE OUTBREAK

Mitigation Ideas

- Manipulate the hazard:
 - None identified
- Reduce exposure and vulnerability to the hazard:
 - o PPE
 - Social distancing
 - o Distanced work environment
 - o Regular cleaning of work environment
- Build local capacity to respond to or prepare for the hazard:
 - Storage of PPE
 - Equipment for monitoring/treatment
 - Trainings for staff
 - Public outreach
 - Maintain strong health regulations
- Nature-based opportunities:
 - Restore systems to reduce standing water that can breed mosquitos.





Drought

DROUGHT

Mitigation Ideas

• Manipulate the hazard:

 Encourage better groundwater recharge through stormwater management, floodplain management

• Reduce exposure and vulnerability to the hazard:

- o Consider stored water/captured water techniques during dry seasons
- o Reduce private water system losses
- o Regularly check for leaks to minimize water supply losses
- o Install low-flow water saving showerheads and toilets
- Turn water flow off while brushing teeth or during other cleaning activities
- o Adjust sprinklers to water the lawn and not the sidewalk or street
- Run the dishwasher and washing machine only when they are full
- Check for leaks in plumping or dripping faucets
- Install rain-capturing devices for irrigation
- Install graywater systems in homes to encourage water reuse
- Identify alternate water supply sources
- Identify and create groundwater back up sources
- Create /identify new impounded water supply points
- Developing new or upgrading existing water delivery systems to eliminate breaks and leaks
- Water use conflict regulations
- Distribute water saving kits
- Encourage citizens to take water-saving measures

Build local capacity to respond to or prepare for the hazard:

- o Practice active water conservation techniques.
- Seek ways to operate wells in such a way to enhance their functional longevity and supply capability.
- Develop a COOP
- Create a water conservation plan
- 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
- Provide incentives to influence active water conservation techniques such as water user rate reductions
- Establish protocol for saltwater de-salinization to be implemented during conditions of severe drought
- Consider providing incentives to property owners that utilize drought resistant landscapes in the design of their homes
- Use of water buffalo tankers





DROUGHT

- Promote well usage techniques that strive to enhance functional longevity and supply capability of private water supply wells
- Develop an ordinance to restrict the use of public water resources for non-essential usage, such as landscaping, washing cars, filling swimming pools, etc.

• Nature-based opportunities:

- o Identify sites ideally suited for ground water recharge
- o Promote and use reclaimed water supplies
- Implement natural stormwater retention in regions ideally suited for groundwater recharges
- o Utilize drought resistant landscapes on private and community owned facilities

Earthquake

EARTHQUAKE Mitigation Ideas

Manipulate the hazard:

None

• Reduce exposure and vulnerability to the hazard:

- Locate personal residences outside of hazard area (off soft soils)
- Locate/relocate critical facilities or mission critical functions outside hazard area where possible
- Retrofit structures (anchor house structure to foundation)
- Secure household items that can cause injury or damage such as water heaters, bookcases, and other appliances
- Build to higher design standards
- Build redundancy for critical functions/facilities
- Retrofit critical buildings/areas housing mission critical functions
- Harden infrastructure
- Provide redundancy for critical functions
- 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

• Build local capacity to respond to or prepare for the hazard:

- Practice "drop, cover and hold"
- Develop household mitigation plan, such as creating a retrofit savings account, communication capability with outside, 72 hr. self-sufficiency during an event
- o Increase capability by having cash reserves for reconstruction
- Become informed on the hazard and risk reduction alternatives available.
- Develop a post-disaster action plan for your household
- Adopt higher standard for new construction -- Consider "performance-based design' when building new structures
- Increase capability by having cash reserves for reconstruction
- o Inform employees on the possible impacts of earthquake and how to deal with them at work facilities
- Develop a Continuity of Operations Plan (COOP)





EARTHQUAKE

- Provide better hazard maps
- 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
- Develop strategy to take advantage of post disaster opportunities
- Warehouse critical infrastructure components such as pipe, power line, and road repair material.
- Develop and adopt a Continuity of Operations / Continuity of Government Plan (COOP/COG)
- o Initiate triggers guiding improvements such as: (< 50% substantial damage/improvements)
- Further enhance seismic risk assessment to target high hazard buildings for mitigation opportunities
- Develop a post disaster action plan that includes a grant funding and debris removal components
- 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 liquefication susceptibility and preserve these areas for open space uses

Extreme Temperature

EXTREME TEMPERATURE

Mitigation Ideas

- Manipulate the hazard:
 - None
- Reduce exposure and vulnerability to the hazard:
 - Insulate structure
 - o Provide redundant power.
 - Air condition non-conditioned buildings
 - Install backup heat (e.g. wood burning stoves)
 - Air condition public buildings
 - Create redundancy to power supply to deal with power grid vulnerability during high demands
- Build local capacity to respond to or prepare for the hazard:
 - Be aware of impending heat and cold waves
 - Inform public on the do's and don'ts during heat and cold waves
 - Have fans available for use during peak demands in leu of air conditioning
 - Install back-up generators
 - Know the location of cooling and warming shelters
 - Inform employees of the seriousness of heat and cold waves
 - Monitor weather forecasts
 - Establish a COOP
 - Identify populations vulnerable to extreme heat and cold (elderly, poor) for early warning during potential heat and cold waves
 - Enhance weather forecasting capability
 - Distribute fans and heating sources to vulnerable populations





EXTREME TEMPERATURE

 Promote selective approaches to cooling your residences and businesses during peak demands

• Nature-based opportunities:

- o Incorporate "green building" methods (e.g. green roofs)
- Plant native vegetation and appropriate trees near home ("Right tree, right place" National Arbor Day Foundation Program)
- Solutions that convert built environments to natural environments such as forests, wetlands, and vegetation

Flood

FLOOD

Mitigation Ideas

• Manipulate the hazard:

- Clear stormwater drains and culverts
- o Providing retention and detention areas
- o Structural flood control: levees, dams, channelization, revetments.
- Construct regional stormwater control facilities
- Separate CSOs
- o Permeable pavement

Reduce exposure and vulnerability to the hazard:

- Locate or re-locate personal residences, businesses, and critical facilities outside of hazard area
- Relocate critical infrastructure, such as power lines, underground
- Institute low impact development techniques on property
- Retrofit existing structures and utilities above Base Flood Elevation (BFE) and Design Flood Elevation (DFE)
- Floodproof existing structures and when new critical infrastructure must be located in floodplains (wet- or dry floodproofing)
- o Store hazardous materials above BFE or outside of flood prone areas
- o Build redundancy for critical functions/ retrofit critical buildings
- Harden structures and infrastructure (wet and dry-floodproofing)
- Acquire or relocate identified repetitive loss properties
- Adopt land development criteria such as PUD's, density transfers, clustering
- Pass an ordinance to incorporate additional zoning classifications into flood zones within each municipality
- Increase floodplain standards within municipality
- 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 Enhance stormwater management regulations
- Add a Flood and/or a Utility Master Plan element to master planning
- Adopt "no-adverse impact" floodplain management policies that strive to not increase the flood risk on down-stream communities.
- Participate in the Community Rating System (CRS)





FLOOD

- Implement as-built regulatory requirements
- Implement site review ordinances/requirements
- Incorporate retrofitting/replacement of critical facilities and infrastructure in Capital Improvement Plans (CIPs)
- Purchase flood insurance
- Support sustainable and resilient land use and community development
- o Recognize sea level rise and erosion areas as a hazard overlay for planning
- Limit new development and critical infrastructure inside the sea level rise area
- o Develop design standards for development inside sea level rise hazard area
- o Incentivize improved flood risk management

• Build local capacity to respond to or prepare for the hazard:

- Develop household mitigation plan, such as retrofit savings, communication capability with outside, 72-hr. self-sufficiency during and after an event
- Buy flood insurance; encourage property owners to purchase flood insurance
- o Improve awareness of hazard and insurance options
- Increase capability by having cash reserves for reconstruction
- Develop and adopt a Continuity of Operations Plan (COOP)
- Solicit 'cost-sharing" through partnerships with private sector stakeholders on projects with multiple benefits.
- Dam owner/operators should continue to be aware of and understand dam inspection and reporting requirements.
- o Ensure that all dam EAP's are kept in compliance with State regulations
- Produce better hazard maps, and improve access to flood hazard mapping
- Capture/survey "high-water" marks during flood events
- Provide technical information and guidance on appropriate mitigation options available to businesses and homeowners
- 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
- Improve compliance with and enforcement of the NFIP Develop mitigation partnerships with regional stakeholders
- o Join Community Rating System (CRS) program, or improve level of participation in CRS
- 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.
- 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
- Establish a program to identify and educate owners of flood-prone properties of potential mitigation options (e.g. elevations, relocations)
- Charge a hazard mitigation fee on all new permits to create a hazard mitigation funding source for initiatives or grant cost share requirements.
- Integrate floodplain management policies into other planning mechanisms within the planning area.
- Establish a stormwater utility fee based on amount of impermeable surfaces that contribute to stormwater flooding
- Establish a Stormwater Utility to deal with urban drainage/flooding issues





FLOOD

- 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
- Upgrade NFIP Floodplain ordinance, as well as other ordinances to current or above current standards
- Develop and adopt a COOP
- o Join NWS "StormReady" Program
- 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 high turnover of municipal officials
- Maintain and enhance flood forecasting ability, including the establishment and maintenance of critical stream gages
- Promote awareness and participation in alert systems Support and participate in regional flood management efforts, such as the Flood Mitigation Task Force or similar efforts
- Support and implement hazard disclosure for the sale/re- sale of property in identified risk zones
- 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
- Provide trainings for FPA's on the NFIP/Floodplain Best Practices and also pursue CFM accreditation for municipal FPA's
- 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
- Develop a Watershed Improvement Plan

Nature-based opportunities:

- Promote open space uses in identified high hazard areas via techniques such as: PUD's, easements, setbacks, greenways, sensitive area tracks
- Acquire vacant land or promote open space uses in developing watersheds to control increases in runoff
- Establish stream maintenance programs with stakeholders
- Promote the use of vegetation/plants as green erosion control measures to reduce localized flooding
- Build rain gardens
- Develop guidance and checklist for developers to assist with integration and incorporation of green and sustainable approaches
- Restore and reconnect floodplains that have been degraded by development and structural flood control
- Preserve floodplain storage capacity by limiting or prohibiting the use of fill in floodplain
- Lead and develop a county-wide stream clearing strategy including the development of thresholds for response/action.





Geologic Hazards

GEOLOGIC HAZARDS

Mitigation Ideas

- Manipulate the hazard:
 - None
- Reduce exposure and vulnerability to the hazard:
 - Consider hazard areas in land-use planning, zoning and development siting
 - o Acquire structures in highest hazard areas (demolish and convert to restricted open space)
 - o Relocation of structures in high risk locations for landslide or subsidence
 - Open space preservation
 - o Consider hazard areas in land-use planning and development siting
 - o Stabilize vulnerable slopes near structures and infrastructure
 - Work with stakeholders to develop appropriate risk reduction strategies
- Build local capacity to respond to or prepare for the hazard:
 - Increase understanding of hazard areas (e.g. Landslide Susceptibility Maps) -geotechnical surveys, LIDAR and mapping
 - Work with stakeholders such as USGS, NJDEP to develop appropriate risk reduction strategies
 - Support and implement hazard disclosure for the sale/re- sale of property in identified risk zones
 - Develop county-level programs to document slide events (landslide inventory), and maintain its currency
- Nature-based opportunities:
 - o Replace or restore native vegetation known to stabilize steep slope areas
 - Hybrid solutions refer to conventional engineering solutions that are combined with naturebased solutions using appropriate vegetation

Severe Weather

SEVERE WEATHER

Mitigation Ideas

- Manipulate the hazard:
 - None
- Reduce exposure and vulnerability to the hazard:
 - Retrofit structures (improved roofing, glazing, insulation, etc.)
 - o Provide for redundant heat and power
 - Contact municipality or utilities to trim or remove trees that could affect power lines;
 trimming trees back from power lines
 - o Relocate critical infrastructure, such as power lines, underground
 - Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations
 - Harden infrastructure such as locating utilities underground
 - Adopt ordinances that regulate the type and quantity of trees planted near utility lines
- Build local capacity to respond to or prepare for the hazard:





SEVERE WEATHER

- o Improve awareness of impending severe weather (e.g. obtain a NOAA weather radio)
- Promote 72-hour self-sufficiency Provide for redundant heat and power
- Participate in NOOA's SKYWARN training to increase knowledge and awareness of hazard
- Create redundancy (e.g. backup generators)
- Develop a Continuity of Operations Plan (COOP)
- Monitor impending storm events so that you can release employees in such a manner as to not negatively impact emergency response personnel/services
- Support programs that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc.
- Increase communication alternatives
- Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines
- o Promote awareness and participation in alert systems
- Provide NOAA weather radios to the public
- o Create/Enhance "mutual aid" agreements for response to all emergencies
- Create/identify evacuation routes to be utilized during severe storm events.
- Develop debris management plans
- Join NWS "StormReady" program
- Provide early warning of impending severe storm events to identified critical or essential facilities
- Promote emergency power supplies to private property
- Improve, expand or harden communications facilities and services
- o Recruit additional emergency personnel or use mutual aid agreements
- Increase sheltering capabilities
- o Increase capability to respond to power outages and downed power lines
- Establish partnerships with utility providers through pro-active planning

Nature-based opportunities:

- Plant appropriate trees near home and power lines ("Right tree, right place" National Arbor
 Day Foundation Program)
- Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors

Severe Winter Weather

SEVERE WINTER WEATHER

Mitigation Ideas

- Manipulate the hazard:
 - o None
- Reduce exposure and vulnerability to the hazard:
 - o Insulate homes to provide greater thermal efficiency and reduce heat loss
 - Provide redundant heat and power
 - o Ensure natural gas input/release valves do not get covered in snow
 - o Relocate critical infrastructure, such as power lines, underground
 - Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations





SEVERE WINTER WEATHER

- Install tree wire
- Harden infrastructure such as locating utilities underground where appropriate.
- Trimming trees back from power lines
- Designate snow routes and strengthen critical road sections and bridges
- Adopt codes and regulations that address the issues of parking of vehicles along roadways during severe weather events
- Develop or enhance the capacity/capability of stormwater conveyance systems
- Provide backup power sources at vital critical facilities

• Build local capacity to respond to or prepare for the hazard:

- Trim or remove trees that could affect power lines
- o Enforce building codes to withstand wind speeds
- Prepare emergency food and supplies to be self- sufficient for at least 72 hours in the event of a severe winter storm
- Be aware of inclement weather conditions and move your vehicles off of the street as severe weather systems approach
- o Retrofit structures
- Create redundancy in utilities and communications
- Develop a Continuity of Operations Plan (COOP) to address operations before, during and after coastal storm events
- Utilize weather radios at the workplace to keep your employees aware of severe weather conditions
- Support programs such as "Tree Watch" that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc.
- Establish and enforce building codes that require all roofs to withstand snow loads--Develop/Improve/Enforce building Codes in Hazard Areas
- Increase communication alternatives
- Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines
- Provide weather radios to vulnerable populations
- Enhance public awareness campaigns to address those issues of alert and warning and actions to take during severe weather events.
- 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.
- Increase tree management programs
- Join NWS "StormReady"
- Retrofit critical structures and promote hazard resistant construction
- o Keep open communications and education of hazards for mobile home communities
- Retrofit above-ground utilities to underground facilities if appropriate
- o Create a salt reserve or research alternates to stretch salt reserve
- Ensure accessibility to hospitals and other critical facilities
- Provide better debris logistics and removal
- Provide better communication systems and back-up communication systems to inform public of hazards and to communicate during the hazard event
- Nature-based opportunities:





SEVERE WINTER WEATHER

- Plant appropriate trees near home and power lines ("Right tree, right place" National Arbor Day Foundation)
- Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors
- o Encourage local ordinances for planting tree near lines and join Tree City USA

Wildfire

WILDFIRE

Mitigation Ideas

- Manipulate the hazard:
 - o None
- Reduce exposure and vulnerability to the hazard:
 - Create, clean and maintain defensible space around structures and infrastructure
 - Provide water onsite
 - Locate outside hazard area
 - Use fire-retardant building materials
 - o Higher regulatory standards
 - Establish water main supply and hydrants in unhydranted areas
 - Decrease hydrant spacing
- Build local capacity to respond to or prepare for the hazard:
 - Employ Firewise techniques to safeguard your home
 - Identify alternative water supply points proximate to your home such as swimming pools, lakes, streams
 - Support local fire department
 - Be aware of weather conditions that support/enhance the probability of wildfires
 - Support Firewise community initiatives
 - More public outreach and education efforts including an active "Firewise" program
 - o Identify fire response and alternative evacuation routes Seek alternative water supplies in urban wildland interface areas
 - Become a "Firewise" community
 - Increase capability to fight wildfires utilizing equipment that can support wildfire fighting such as: tankers, engines with "pump-and-run" capabilities, dump tanks for tanker shuttle operations
 - Develop/implement wildfire management plans
 - Establish Mutual Aid Agreements with the Tender Task Force
 - Attend the Tender Apparatus Response Plan (TARP) training conducted by Kean University
 - Develop a Water Supply Plan
- Nature-based opportunities:
 - Manage invasive species 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)
 - Implement and fund ecological thinning and prescribed fire and cultural fire and, where appropriate, manage wildfire for resource benefit





APPENDIX G: PLAN MAINTENANCE TOOLS

This appendix includes an annual progress report template to facilitate plan maintenance and review by the Essex County Steering Committee and Planning Partnership.





Essex County, New Jersey 2025 Hazard Mitigation Plan Annual Progress Report

Jurisdiction: (Insert jurisdiction name)

Reporting Period: (Insert reporting period)

Background: Essex County developed a Hazard Mitigation Plan (2025 HMP) to reduce risk from flooding by identifying resources, information, and strategies for risk reduction. To prepare the 2025 HMP, the County organized resources, assessed risks from hazards, developed planning goals and objectives, reviewed mitigation alternatives, and developed an action plan to address probable impacts from hazard events. The 2025 HMP can be viewed on-line at:

INSERT WEBPAGE

Summary Overview of the Plan's Progress: The performance period for the 2025 HMP began on 2025, with the final approval of the plan by FEMA. The initial performance period will be 5 years, with an anticipated update to the plan to occur before 2030. As of this reporting period, the performance period is considered to be 3% complete. The 2025 HMP has targeted (number of jurisdiction actions) hazard mitigation actions to be pursued by (Insert jurisdiction name) during the 5-year performance period. As of the reporting period, the following overall progress can be reported:

- __ out of __ actions (__%) were reported as being in progress toward completion.
- __out of __ actions (__%) were reported as being complete.
- __out of __actions (___%) were reported as ongoing capabilities that are now completed on a regular or annual basis.
- __ out of __ actions (___%) reported no action taken.

Purpose: The purpose of this report is to provide an annual update on the implementation of the action plan identified in the 2025 HMP. The objective is to ensure that there is a continuing and responsive planning process that will keep the 2025 HMP dynamic and responsive to the needs and capabilities of the County and stakeholders. This report discusses the following:

- Mitigation success stories
- Review of the action plan

Mitigation Success Stories: (Insert brief overview of mitigation accomplishments during the reporting period)





Review of the Action Plan: Table 1 reviews the action plan, reporting the status of each action. Reviewers of this report should refer to the 2025 HMP for more detailed descriptions of each action and the prioritization process.

Address the following in the "status" column of the following table:

- Was any element of the action carried out during the reporting period?
- If no action was completed, why?
- Is the timeline for implementation for the action still appropriate?
- If the action was completed, does it need to be changed or removed from the action plan?

Table 1. Action Plan Matrix

Action Take? (Yes or No)	Timeline	Priority	Status (X, 0, ✔)	Comment
Action #	[de	scription]		
, totalon	[40]	<u></u>		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		
Action #	[de	scription]		





Action Take? (Yes or No)	Timeline	Priority	Status (X, O, ✔)	Comment
Action #	[de:	scription]		
Action #	[de:	scription]		
Action #	[de:	scription]		
Action #	[de:	scription]		
Action #	[de:	scription]		

Completion status legend:

✓= Project Completed

O = Action ongoing toward completion

X = No progress at this time





APPENDIX H: LINKAGE PROCEDURES

1.1 ADMINISTRATIVE PROCESS FOR "LINKAGE" TO THE ESSEX COUNTY HAZARD MITIGATION PLAN

Even though that initial development of the Essex County Hazard Mitigation Plan (HMP) included all municipalities in the County, not all eligible local governments within the defined planning area are included in this plan. Completed jurisdictional annexes are presented in Volume II. Any non-participating local governments and other local jurisdictions such as Fire Districts, Utility Districts, School Districts, and any other eligible local government as defined in 44 CFR 201.2 within the Essex County planning area can join this plan as a participating jurisdiction and to ultimately achieve approved status by following the linkage procedures defined in this appendix.

It is assumed that some or all of these non-participating local governments may choose to "link" to the plan at some point in time to gain eligibility for programs under the Disaster Mitigation Act (DMA). In addition, some of the current partnership may not continue to meet eligibility requirements due to the lack of active participation as prescribed by the plan. These "linkage" procedures will define the requirements established by the Essex County HMP Steering Committee and all planning partners for dealing with the increase or decrease in planning partners linked to this plan. It should be noted that currently non-participating jurisdictions within the defined planning area are not obligated to link to this plan. These jurisdictions can choose to do their own "complete" plan that addresses all required elements of section 201.6 of 44CFR.

1.2 INCREASING THE PARTNERSHIP THROUGH LINKAGE

1.2.1 Eligibility

Eligible jurisdictions located in the planning area may link to this plan at any point during the plan's performance period. Eligible jurisdictions located in the planning area may link to this plan at any point during the plan's performance period (5 years after final approval). Eligibility will be determined by the following factors:

- The linking jurisdiction is a local government as defined by the DMA.
- The boundaries or service area of the linking jurisdiction is completely contained within the boundaries of the planning area established during the 2025 hazard mitigation plan development process.
- The linking jurisdiction's critical facilities and lifelines were included in the critical facility, lifeline and infrastructure risk assessment completed during the 2025 plan development process.

1.2.2 Requirements

It is expected that linking jurisdictions will complete the requirements outlined below and submit their completed template to the Hazard Mitigation Planning Coordinator - Essex County Office of Emergency Management – for review within six months of beginning the linkage process:





- 1. The Essex County HMP Steering Committee has established an annual window for which linkage to the plan can occur. Linking jurisdictions are instructed to complete the following procedures during this time frame.
- 2. The current non-participating jurisdiction contacts the Essex County Hazard Mitigation Planning Coordinator for the plan and requests a "Linkage Package". The Essex County Hazard Mitigation Planning Coordinator is:

Sergeant Ryan Peter
Essex County Office of Emergency Management
560 Northfield Road
West Orange, New Jersey 07052
Essexoem@EssexSheriff.com

- 3. The Essex County Hazard Mitigation Planning Coordinator will provide a linkage package that includes:
 - o Copy of Volume 1 and 2 of the plan (electronic)
 - o Planning Partner's Expectations Sheet
 - o A Sample "Letter of Intent" to Link to the Plan
 - o A Jurisdictional Template and Instructions
 - o Catalog of Hazard Mitigation Alternatives or the Mitigation Catalog
 - o A copy of Section 201.6 of Chapter 44, the Code of Federal Regulations (44CFR), which defines the federal requirements for a local hazard mitigation plan
- 4. The new jurisdiction will be required to review both volumes of the plan which includes the following key components for the planning area:
 - The Essex County risk assessment
 - o The plan's goals and objectives
 - o Plan implementation and maintenance procedures
 - o Catalog of potential mitigation actions
 - County-wide initiatives

Once this review is complete, the jurisdiction will complete its specific jurisdictional annex by following the template and its instructions for completion provided by the Essex County Hazard Mitigation Planning Coordinator. Technical assistance can be provided upon request by completing the request for technical assistance (TA) form provided in the linkage package. This TA may be provided by the Essex County Hazard Mitigation Planning Coordinator or any other resource within the Planning Partnership such as a member of the HMP Steering Committee, Planning Partnership, or a currently participating jurisdiction. The Essex County Hazard Mitigation Planning Coordinator will determine who will provide the TA and the possible level of TA based on resources available at the time of the request.





5. The new jurisdiction will also be required to develop a public involvement strategy that ensures their public's ability to participate in the plan development process. At a minimum, the new jurisdiction must make an attempt to solicit public opinion on hazard mitigation at the onset of this linkage process and a minimum of one public meeting to present their draft jurisdiction specific annex for comment, prior to adoption by the governing body. The Planning Partnership will have available resources to aid in the public involvement strategy such as the Plan website. However, it will be the new jurisdiction's responsibility to implement and document this strategy for incorporation into their annex.

It should be noted that the Jurisdictional Annex templates do not include a section for the description of the public process. This is because the original partnership was covered under a uniform public involvement strategy that covered the operational area that is described in Volume 1 of the plan. Since the new partner was not addressed by that strategy, they will have to initiate a new strategy, and add a description of that strategy to their annex. For consistency, new partners are encouraged to follow the public involvement format utilized by the initial planning effort as described in Volume 1 of the plan.

- 6. Once their public involvement strategy is completed and they have completed their template, the new jurisdiction will submit the completed package to the Essex County Hazard Mitigation Planning Coordinator for a pre-adoption review to ensure conformance with the Regional plan format.
- 7. The Essex County Hazard Mitigation Planning Coordinator will review for the following:
 - o Documentation of public involvement and mitigation action development strategies
 - o Conformance of template entries with guidelines outlined in instructions
 - Chosen actions are consistent with goals, objectives, and mitigation catalog of Essex
 County Hazard
 - o Mitigation Plan
 - Designated point of contact

The Essex County Hazard Mitigation Planning Coordinator may utilize members of the HMP Planning Committee or other resources to complete this review. All proposed linked annexes will be submitted to the HMP Planning Committee for their review and comment prior to submittal to the New Jersey Office of Emergency Management – Mitigation Unit (NJOEM).

- 8. Plans approved and accepted by the HMP Planning Committee will then be forwarded to NJOEM for review with cover letter stating the forwarded plan meets local approved plan standards and whether the plan is submitted with local adoption or for criteria met/plan not adopted review.
- 9. NJOEM will review plans for state and federal compliance. Non-compliant plans are returned to the jurisdiction for correction. Compliant plans are forwarded to FEMA Region II office for review with annotation as to the adoption status.





- 10. FEMA Region 2 reviews the new jurisdiction's plan in association with the approved plan to ensure DMA compliance. Region 2 notifies new jurisdiction of results of review with copies to NJOEM and approved planning authority.
- 11. New jurisdiction corrects plan's shortfalls (if necessary) and resubmits to NJOEM through the approved plan lead agency.
- 12. For plans with no shortfalls that have not been adopted from the Region 2 review or outstanding corrected shortfalls, the new jurisdiction governing authority adopts the plan (if not already accomplished) and forwards adoption resolution to Region 2 with copies to lead agency and NJOEM.
- 13. Region 2 Director notifies new jurisdiction governing authority of plan approval.

The new jurisdiction plan is then included with Essex County HMP and the linking jurisdiction is committed to participate in the ongoing plan implementation and maintenance identified in Volume 1 of the HMP.





APPENDIX I: CRITICAL FACILITY INVENTORY

The critical facility inventory is a non-public facing appendix for the 2025 Essex County HMP. The appendix documents the critical facilities identified and analyzed for the 2025 risk assessment.

