

APPENDIX C. MEETING DOCUMENTATION

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



Figure C-0-1. Steering Committee Meeting #1 Agenda



CAPE MAY COUNTY HAZARD MITIGATION PLAN UPDATE Steering Committee #1 - AGENDA MEETING DATE/TIME: June 24, 2020 - 2:00 pm - 3:30pm



1. Background and Introductions

2. Benefits of Hazard Mitigation

- Purpose and expected outcomes of the Hazard Mitigation Plan
- 2020 enhancements
- CRS requirements

3. Project Organization

- Key Agencies
- Municipal Participants
- Internal and External Stakeholders

4. Hazard Mitigation Planning and Update Overview

5. Steering Committee Composition and Ground Rules

- 6. Schedule
 - Overview and Milestones
 - Meeting Schedule

7. Data Collection Status

8. Hazards of Concern Identification

9. Public and Stakeholder Outreach

- Strategy press releases, social media posts, capture of miscellaneous outreach, HMP website
- Tracking

10. In-Kind Services Tracking

11. Questions / Wrap-Up

Cape May County Project Contacts

Marty Pagliughi, Director 609-600-5055 Martin.pagliughi@co.cape-may.nj.us John Edwards, Deputy Director 609-600-5069 John.Edwards@CO.CAPE-MAY.NJ.US

Tetra Tech Project Contacts

Heather Apgar, CFM 6 Century Drive, Parsippany, NJ 07054 (973) 630-8046 | heather.apgar@tetratech.com Chris Huch, CFM

6 Century Drive, Parsippany, NJ 07054 (973) 630-8357 | chris.huch@tetratech.com





Figure C-2. Steering Committee Meeting #1 Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting





Cape May County Hazard Mitigation Plan Update Minutes of Meeting



Purp	one of Meeting: Steering Conventue Meeting #1	
Locat	tion of Meeting: Microsoft Teams	
Date/Ti	ims of Meeting June 24, 2020 – 2:00pm to 3:00pm	
åttenders.	Marty Fagliaghi, Cape May DEM Thomas Thomas Thomas Mott MacDon	aid
	John Edwards, Cage May OEM Jakin Gimeno, Cupe May Platning Jakin Dowini, Cape May Platning Jakin Copiel, Cape Alasi Cape Jakin Copiel, Cape May Alasi Jakin Copiel, Cape May May Jakin Copiel, Cape May May Jakin Copiel, Cape May Jakin Cape May Jakin Copiel	turance lainable Jackey Mult
Agenda		
Hem No.	Description	Action by:
1.	Welcome and Introductions -	HUMOUNE.
11576.0	Marty Paginghi evictored everyone and described the MMF and planning process Tetra Tech made beam introductions and invited participants to other their name and who they are appointed with.	350
2.	Seneths of Hazard Mitigation - Tetra Tech explained what is hazard mitigation and what the update entails Tetra Tech explained how participation in the MMP supports CRS Participating keeps musicipalities and the County eligible for PENA HMA failing Tetra Tech discussed the plant himory of Bazard events in the County, including discipation of the Plant's events with the community failing Septem program and the efforts Tetra Tech will be taking to excell the HMP update maximize proteotic Cris points for the communities in the County that participates in the CRS program:	14
3.	Project Organization - • Tetra Tech discussed the organization of the of the Steering committee and its role in the planning process.	
/3 4 (3)	Heard Mitigation Planning and Overview — Total Tating gave an environe of the SMA 2009 M. Pagliaght noted that since Sands, over Sid mellion in HANDF and SMA hunding and SSM is distanted declarations. Total Tatih has begin looking at and reviewing the available plans and codes for each manageaby and surrenoted how each, if applicable, are enegrated or can be integrated with hunding analysis and surrenoted flow each, if applicable, are enegrated or can be integrated with hunding and what is at mis, we can start identifying projects and obstract to reduce or elementate the risk.	It will provide to: of county-owned critical facilities to the Steering Corresidee for feedback, It will send list of plans, codes, ordinances to committee for

	requirement that municipalities identify mitigation actions for critical facilities in the floodplain. NJOEM noted that it is not a NJ requirement but it is not a bad idea. However, NJOEM noted that many municipalities may not own their critical facilities. Tetra Tech suggested this sort of information can be used as guidance for the development of the mitigation strategy as the first step in the brainstorming of actions.	Steering Committee to review facilities and indicate which ones are lifelines
5.	Steering Committee Composition and Ground Rules – Tetra Tech will provide the ground rules for the Steering Committee and asked that each member identify an alternate in case they cannot attend a meeting. Steering Committee members are responsible for reviewing the plan, assisting with public and stakeholder outreach, and making decisions on the planning process. Tetra Tech asked for ideas on how to make the meetings more interactive if we cannot meet in person	Tt to provide ground rules to Steering Committee Steering Committee members to identify alternates
6.	Schedule Tetra Tech reviewed the proposed schedule: Planning Partnership Kickoff will be July 15th. Draft to the Steering Committee by late fall/early winter Final draft to NJ DHSES and FEMA by February 2021	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7	Data Collection Status Cape May County sent out Letters of Intent were sent out to municipalities on June 24 to be submitted back to the County. Data collection continues. Tetra Tech is working with the County departments to obtain GIS data needed to for the risk assessment.	
8	Hazards of Concern Identification Hazards of Concern – Tetra Tech asked that the Committee complete the Hazard of Concern exercise via Google forms. Once compiled, Tetra Tech will present the list of hazards to the Steering Committee.	Steering Committee to complete Hazard of Concern exercise
9	Public and Stakeholder Outreach Tetra Tech noted that public and stakeholder outreach will be tracked and encouraged the Steering Committee's input on outreach for the plan via the supplied Stakeholder google form.	Steering Committee to complete stakeholder exercise
10	Tetra Tech noted that in-kind services will be tracked via a document which will be supplied to the committee members. This tracker will be used to help keep track of hours spent on the HMP update and will help with meeting the 25% local match.	Tt to send out the in-kind tracker to Committee
11	Questions/Wrap Up/Next Steps Tetra Tech will reach out as needed Attend the July 15th Planning Partnership meeting	* <u>5</u> %



Figure C-0-3. Steering Committee Meeting #1 Presentation

6/26/2020



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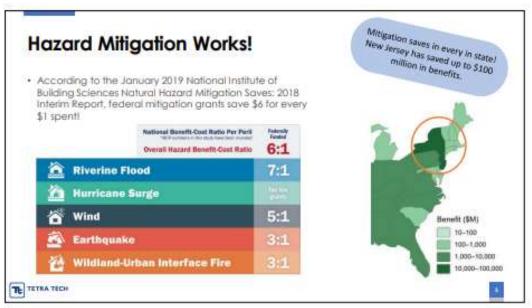
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Introductions • Tell us... • What's your name? • Where you are from? • What is your mitigation experience? • What do you want to focus on during this process or what is your area of expertise? • What are your resilience concerns for Cape May County?

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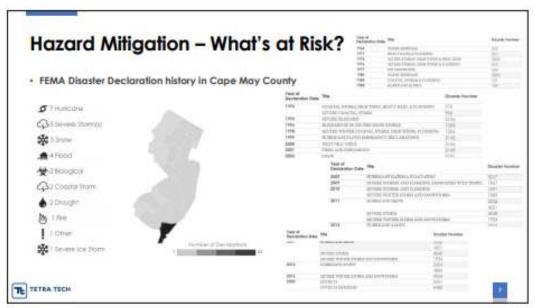




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CRS Integration

- Hazard mitigation plans qualify for CRS points as "Floodplain Management Plans" through Activity 510
- To achieve a Class 4, specific outreach requirements in Activity 510 must be met
- The state of the s
- Tetra Tech will structure and document meetings to meet prerequisites for CRS Class 4 and achieve as many points as possible through Activity 510. We will also work with the communities to help them throughout the process.
- Communities still need to meet the other Class 4 prerequisites (e.g., watershed management plan; Activity 610) and present documentation of participation during individual verifications to meet Class 4
- · All meetings must be open to the public
- All meetings must be documented on the County's website



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Hazard Mitigation Committee Composition Ground Rules What is the Steering Committee's role? Guide the Planning Partnership through the HMP update process Warly Pagluphi John Edwards Oversee the planning process from start to firsh + PLANNING + Leslie Gimeno · Char Attendance · PUBLIC WORKS & ENGINEERING Quorum Eobert Church + Alternates . HEALTH DEPARTMENT Decision making + Kevin Ihomos Recommendations Rep of Municipathes Spokespesons + Scott Wahl, Business Administrator (Avalan) Non-governmentici agenciae

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6. Cape Afl · Stoffing + : Public Involvement Courtesy Meetings

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Critical Facilities and Lifelines

- · Review 2015 CF inventory to ensure complete
- · Crosswalk and identify lifelines

Critical Facilities are those facilities considered critical to the health and welfare of the population and that are especially important following a hazard. As defined for this HMP, critical facilities include essential facilities, transportation systems, lifetine utility systems, high-potential loss facilities, and hazardous material facilities.

Essential facilities are a subset of critical facilities that include those facilities that are important to ensure a full recovery following the occurrence of a hazard event. For the County risk assessment, this category was defined to include police, fire, EMS, schools/colleges, shelters, senior facilities, and medical facilities.

Lifelines provide indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security.



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Critical Facilities and Lifelines

- · Protecting of critical facilities should be a priority for hazard mitigation.
- New York State DHSES has instituted a requirement for New York HMP's to protect all critical
 facilities located in the Special Flood Hazard Area to the 500-year flood level.
 - This mandates an action for every critical facility in the flood zone not currently protected to that flood level.
 - · Elevation, relocation, floodproofing, floodwalls, etc.
- Does the Steering Committee believe we should institute a requirement for each municipality to address critical facilities to the 500-year flood level or some other standard?



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Update Risk Assessment Update Assets Examine Previous Impacts

- Analyze Risks
- · Review with Steering Committee
- Risk Assessment Meeting open to the public



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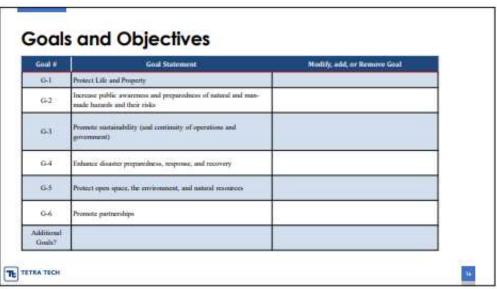
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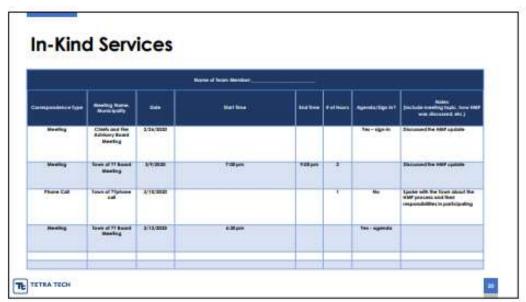
Data Collection Status

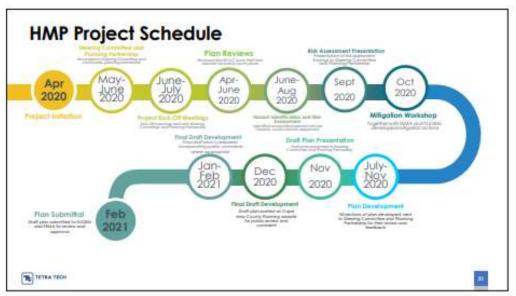
- Letters of Intent to Municipalities Email to to all supervisors, mayors, and clerks Marty sent out on June 24th
 - Municipalities received a kick-off letter, letter of intent to participate, and an invitation to attend the July 15th kick-off meeting.
- Critical Facility Inventory (County has provided initial data) and Tetra Tech is working with county departments to get all information needed.
- Reparts and Plans Tetra Tech has begun compiling reports, plans, and codes available poline
- · Regulatory Flood Maps: FEMA 2017 DRRMs
- · Template Data Gathering/Update Tools and Annex Template Approach
- Capability Assessments
- Mitigation Strategy Updates



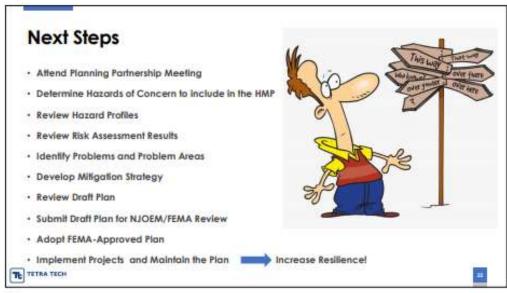
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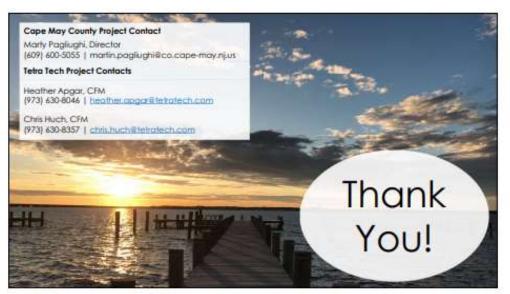


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Figure C-4. Planning Partnership Meeting #1 Agenda



CAPE MAY COUNTY HAZARD MITIGATION PLAN UPDATE Planning Partnership #1 – AGENDA MEETING DATE/TIME: JULY 15, 2020 – 10:00 am - 11:30 am



- 1. Welcome and Introductions
- 2. Hazard Mitigation Plan Overview
 - Purpose and Expected Outcomes of the Hazard Mitigation Plan
 - 2020 enhancements
- 3. Hazard Mitigation Planning Process
- 4. Participation and Schedule
 - Why participate?
 - Overview and Milestones
 - Meeting Schedule
- 5. Hazards of Concern Identification
- 6. Updating Sections of the HMP
- 7. Staying Engaged and Involved
- 8. Updating Jurisdictional Annexes
- 9. Next Steps and Questions
- 10. Project Contacts

Cape May County Project Contacts

Marty Pagliughi, Director Cape May County Office of Emergency Management (609) 600-5055 | martin.pagliughi@co.capemay.nj.us

Tetra Tech Project Contacts

Heather Apgar, CFM 6 Century Drive, Parsippany, NJ 07054 (973) 630-8046 | heather.apgar@tetratech.com

Chris Huch, CFM 6 Century Drive, Parsippany, NJ 07054 (973) 630-8357 | chris.huch@tetratech.com



Figure C-5. Planning Partnership Meeting #1 Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting



Locati	on of Meeting: Microsoft Teams	
Date/Ti	me of Meeting: July 15, 2020 – 10:00am to	o 11:30am
Attendees:	Marty Pagliughi, Cape May County OEM	
	John Edwards, Cape May County OEM	Avaion: Scott Wahl, Tom Thornton, Ed Dean
	Annemarire Ricco, Cape May County OEM	Cape May City: Louis Belasco, Jerry Inderwies
	Leslie Gimeno, Cape May County Planning	
	Jason Downie, Cape May County Planning	Lower: Ed Donohue
	Kevin Thomas, Director Cape May County	Middle: Sean McDevitt
	Health Department	N Wildwood: Ron Simone
	Robert Church, Cape May County Public	Ocean City: Frank Donato
	Works/County Engineer	Upper: Scott Morgan, Paul Dietrich
		Stone Harbor: CPO Jonathan LaKose, Kim Stevenson, Ray
	Ralph Cooper, Cape-Atlantic Sustainable	Poudrier, and Bob Smith
	Jersey Hub	West Wildwood: Jackie Ferentz
	Tom Quirk, Ed Mahaney- NJ Coastal	West Cape May: Paul Mulligan
	Coalition	Wildwood: Daniel Dunn
	Alex Ferencz, Stockton CRC	Wildwood Crest: Edmund Grant
	Steven Hafner, Stockton CRC	
	John Feariheller	Heather Apgar, Tetra Tech
	Howard Wolf, NJOEM	Cynthia Bianco, Tetra Tech
		Michael Fowler, Tetra Tech
	609-214-8544 (Unknown Cell)	Chris Huch, Tetra Tech
	609-231-8129 (Unknown Cell)	Brian Kempf, Tetra Tech
	609-374-2009 (Unknown Cell)	Alison Miskiman, Tetra Tech
	609-827-7524 (Unknown Cell)	

Agenda Meet the project team, review roles and responsibilities of the Partnership, timeline and key items in the Summery: process, discuss hazards of concern, benefits of mitigation planning for funding and project implementation		
Item No.	Description	Action By
1.	Welcome and Introductions - M. Pagliuighi welcomed everyone and described the HMP and planning process Tetra Tech made team introductions and roll call was taken for the participating municipalities.	
2	M. Pagliuphi noted that since Sandy, over \$14 million in HMGP and FMA funding and \$6m in disaster declarations. H. Aggar (Ti) gave an overview of the DMA 2000 Participating in HMP process keeps municipalities and the County eligible for FEMA HMA funding Tetra Tech discussed the past history of hazard events in the County, including disaster declarations.	
3.	Project Organization - Core Planning Team is Tetra Tech and County OEM Tetra Tech discussed the organization of the of the Planning Partnership and its role in the planning process Steering Committee consists of the County and stakeholders- will review plan	

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Cape May County Hazard Mitigation Plan Update Minutes of Meeting



4.	CRS Integration	ř
	C Huch (TI) explains CRS integration Tetra Tech explained how participation in the HMP supports CRS Tetra Tech discussed the Plan's overlap with the Community Rating System program and the efforts Tetra Tech will be taking to ensure the HMP update maximizes potential CRS points for the communities in the County that participate in the CRS program HMP will help assist in achieving Class 4 FEMA and SO are being flexible w public outreach requirements Communities still need Class 4 pre-requirements Present during individual verifications	Tt to send documentation material Communities to provide documentation to CRS reviewer
5.	Planning Partnership Explanation • Municipalities are encouraged to actively participate- participation means remaining eligible • Partners should attend meetings, send data timely, support public outreach, and facilitate the adoption process • Assemble mitigation team- NFIP, BC official, engineer, mayor, etc.	Communities to submit LOIP Communities to assembled Mitigation Team
6.	Hazard Mitigation Planning and Overview H. Apgar reviewed the plan timeline Teta Tech has begun looking at and reviewing the available plans and codes for each municipality and summarized how each, if applicable, are integrated or can be integrated with hazard mitigation. Tetra Tech suggested this sort of information can be used as guidance for the development of the mitigation strategy as the first step in the brainstorming of actions.	Tt to send tools to document outreach and work
7.	Plan Components C Huch explains plan sections, including the Capability Assessment and Risk Assessment Communities will update planning/regulatory capability It to share draft of each annexes and highlight where communities need to fil things out (saves time) no separate worksheet Plan incorporating new FEMA illelimes/critical facilities. Tt is finalizing data to send to the County Hazards of Concern—Tetra Tech asked that the Committee complete the Hazard of Concern exercise via Google forms. The consensus so far is to maintain previous hazards, with the potential addition of disease outbreak.	Tt to host workshop PP members to take hazard of concern survey
8.	Updating Mitigation Strategy Each community needs at least two mitigation actions Start with examining existing problems, then add new mitigation options, including existing grant applications Focus on quality, not quantity Projects should typically be able to be completed within five years The capability assessment should be used to inform mitigation actions	Communities to review municipa annex Communities to determine status of 2015 actions Identify potentia
9.	Public and Stakeholder Outreach Tetra Tech noted that public and stakeholder outreach will be tracked and encouraged the Steering Committee's input on outreach for the plan via the supplied Stakeholder Google Form.	Update municipa website and add link to County website

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Cape May County Hazard Mitigation Plan Update Minutes of Meeting



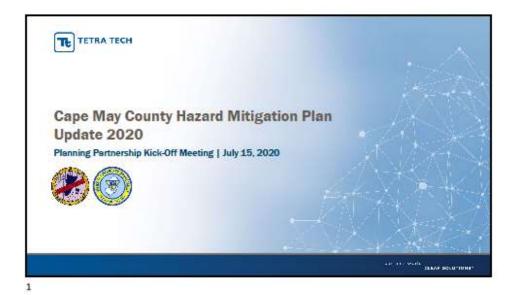
10.	Data Collection Status	Communities to	
	 Municipalities should return LOIPs if not completed already 	return LOIPs	
	 Tt will be using 2017 DFIRMs 	Company Company	
	Tt is compiling plans/reports	Tt to send	
	 Capability assessments, initial data for annex, and mitigation strategy updates are in progress and will be updated with the annex development 	communities a list of critical facilities, confirm data correctness	
11.	Schedule		
	 Draft to the Steering Committee by late fall/early winter 		
	 Final draft to NJ DHSES and FEMA by February 2021 		
	 Annex meeting starting soon (including workshops) 		
	 Risk Assessment meeting at the end of September 		
12.	In-Kind Services		
	 Tetra Tech noted that in-kind services will be tracked via a document which will be supplied to the committee members. 	Communities to track in-kind	
	 This tracker will be used to help keep track of hours spent on the HMP update and will help with meeting the 25% local match. 	service provision	
13.	Questions/Wrap Up/Next Steps		
	 Tetra Tech will reach out as needed 		
	 Tt is updating hazard profiles and the risk assessment. 		
	 Tt will be distributing annexes with instructions in near future 		
	 Draft plan expected late fall/early winter 		
	 Final plan to NJOEM by February 2021 		

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Figure C-6. Planning Partnership Meeting #1 Presentation

7/14/2020



Agenda

1 Welcome
7 Data Collection Status
2 Benefits of Hazard Mitigation
3 Hazards of Concern
3 Project Organization
4 Hazard Mitigation Planning Overview
5 Updating Municipal Annexes
6 Schedule



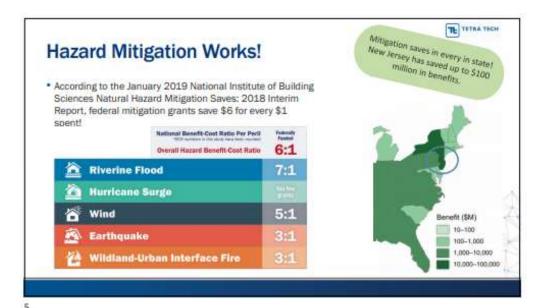


TETRA TECH Why Update? \$100.5 million \$321.3 million . The mitigation plan update will: Cold/Wind Chill 50 Drought . Help the County prepare for and mitigate the Excessive Heat 90 effects of disasters Flood/Flush Flood \$5.7 million Half 80 Continue to allow the county and participating partners to be eligible for pre- and post-disaster Heavy Rain \$150,000 High Surf \$42.03 million mitigation funding Hurricane/ Tropical Storm/ \$6.8 million . Support CRS participation/rating of Tropical Depression municipalities Lightning/Thursdendorm \$1.4 million Tomado/Funnel Cloud 8802,750 . What is at risk in Cape May County? Wind \$216.7 million Winter Weather \$2.8 million \$10,000 Wittire

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7/14/2020

CRS Integration

- Hazard mitigation plans qualify for CRS points as "Floodplain Management Plans" through Activity 510
- To achieve a Class 4, specific outreach requirements in Activity 510 must be met



- Tetra Tech will structure and document meetings to meet prerequisites for CRS Class 4 and achieve as many points as possible through Activity 510. We will also work with the communities to help them throughout the process.
- Communities still need to meet the other Class 4 prerequisites (e.g. watershed management plan, Activity 610) and present documentation of participation during individual verifications to meet Class 4
- · All meetings must be open to the public
- All meetings must be documented on the County's website (https://www.capemaycounty2020hmp.com/)

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Municipal Planning Partnership



 All municipalities are encouraged to actively participate (and continue to be covered by the Countywide HMP).

Participating = you remain eligible for pre-disaster mitigation funding!

FEMA has greatly expanded their scrutiny of "participation"...

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7/14/2020

How Do You Participate?

- . Submit Letter of Intent to Participate
 - If you haven't returned it yet, please do so ASAP!
- · Assist with the development of your jurisdictional annex
- * Attend planning partnership meetings/workshops like this one!
- . Provide data and information in a timely manner
- . Support public and stakeholder outreach in your jurisdiction
- Review and provide feedback on Draft and Final Plan documents
- . Facilitate the adoption process governing body must pass an Adoption Resolution
- . Implement and Maintain the Plan

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If you have not fully decided who should be on your municipal team, the following can provide you a better idea on who to invite:

- · NFIP Floodplain Administrator
- Building Code Official
- Engineer
- · Land Use Planner
- · Clerk
- Mayor/Administrator
- Municipal CFO/Fiscal Representative
- · Public Works Superintendent/Director
- · Police/Fire Official



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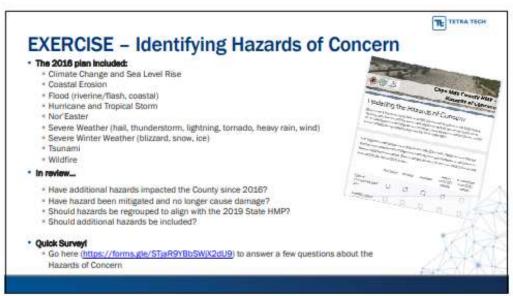


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7/14/2020

What We Need From You!

- In order to complete everything from the previous slides, we need your help!
- Tetra Tech will be sending out each of you a municipal annex that has been pre-populated from the last plan. You will also receive instructions on who to update each section.
- Review the annex and update/revise accordingly.
- SAVE THE DATE!
 - We will be hosting online workshops to help guide you through updating the annex. Stay tuned for details!



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We Need YOU Engaged and Involved!

- Update your Municipal webpage and link to County's HMP webpage (https://www.capemaycounty2020hmp.com/)
- Social Media Blasts Tetra Tech will provide you with content and graphics
- Local Announcements of HMP Update local papers, newsletters, etc.
- Local public meetings
- · Draft Plan Review
- Document each and every time this done!

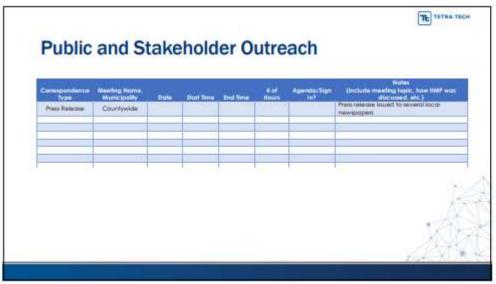
- . Why conduct outreach?
 - Informs and educates about hazards and risks
 - Invites interested parties to contribute their views and ideas for mitigation
 - Identifies conflicts and incorporates different perspectives and priorities early in the process
 - Provides data and information that improves overall quality and accuracy of the plan
 - . Ensures transparency and builds trust
 - Maximizes opportunities for implementation through greater consensus and acceptance

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7/14/2020



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Data Collection Status

- Letters of Intent to Municipalities Email to to all supervisors, mayors, and clerks Marty sent out on June 24th
 - Municipalities received a kick-off letter, letter of intent to participate, and an invitation to attend the July 15th kick-off meeting
- Critical Facility Inventory (County has provided initial data) and Tetra Tech is working with county departments to get all information needed.
- * Reports and Plans Tt has begun compiling reports, plans, and codes available online
- Regulatory Flood Maps: FEMA 2017 DFIRMs
- . Collected initial Data for Annex will finalize with Municipal Input
- Capability Assessments In progress
- Mitigation Strategy Updates In progress

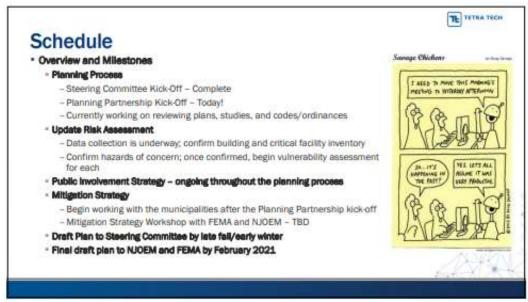
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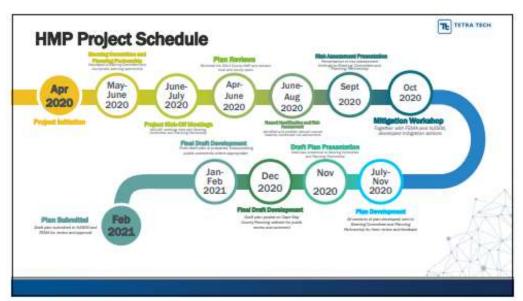




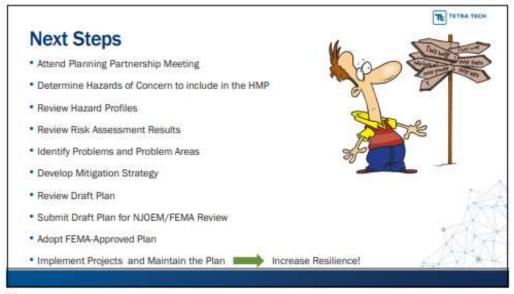
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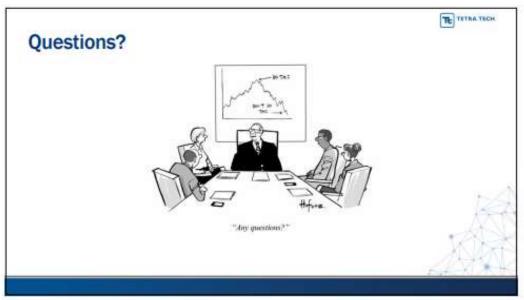




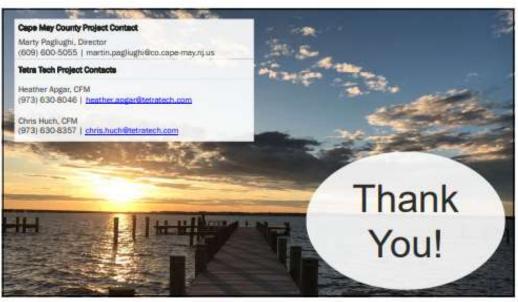
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Figure C-7. Steering Committee Meeting #2 Agenda



CAPE MAY COUNTY HAZARD MITIGATION PLAN UPDATE Steering Committee #2 – AGENDA
MEETING DATE/TIME: August 12, 2020 – 10:00 am – 11:30 am



- 2. Project Status
 - Where are we in the process/schedule
 - Municipal engagement
 - Data collection status
 - Public outreach
 - Tracking in-kind hours
- 3. Initial Stakeholder Feedback
- 4. Confirmation of Hazards of Concern
- 5. Critical Facilities Identification/Confirmatio

 - Definition
 Lifeline Crosswalk
- 6. Update/Revise Mission Statement and Goals/Objectives
- 7. SWOO (Strengths, Weaknesses, Obstacles and Opportunities) Exercise
 Initial feedback received to date
- 8. CRS what we should be doing
- 9. Schedule
- 10. Next Steps
- 11. Other Items and Questions All
- 12. Project Contacts

Cape May County Project Contacts Marty Pagliughi, Director

Cape May County OEM (609) 600-5055 | Martin.Pagliughi@CO.CAPE-MAY.NJ.US

Tetra Tech Project Contacts Heather Apgar, CFM

6 Century Drive, Parsippany, NJ 07054 (973) 630-8046 | heather.apgar@tetratech.com

Chris Huch, CFM 6 Century Drive, Parsippany, NJ 07054 (973) 630-8357 | chris.huch@tetratech.com

Brian Kempf, AICP, CFM 498 7th Ave., 15th Fir., New York, NY 10018 (212) 615-3720 | brian kempf@tetratech.com





Figure C-8. Steering Committee Meeting #2 Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting



Location of Meeting: Microsoft Teams Date/Time of Meeting: August 12, 2020 - 10:00am to 11:00am Marty Pagliughi, Cape May OEM Thomas Thornton, Mott MacDonald John Edwards, Cape May OEM Thomas H. Heist, IV, Tom Heist Insurance Kevin Thomas, Director Cape May County Health Department Robert Church, Cape May Public Works & Engineering Tom Quirk, NJ Coastal Coalition Ed Mahaney, NJ Coastal Coalition Vicki Clark, Cape May County Chamber of Commerce Andrew Lewis, Journalist Joseph Lomax, Lomax Consulting Group Heather Apgar, Tetra Tech Lenore Tedesco, Director of the Wetlands Institute Chris Huch, Tetra Tech Jody Alessandrine, Cape May MAC Brian Kempf, Tetra Tech Meghan Wren, NJ OPA

Purpose of Meeting: Steering Committee Meeting #2

Joe Martucci, Press of Atlantic City

Agenda Update Steering Committee on project status; discuss Hazards of Concern, Mission Statement, and Goals and

tem No.	Description	Action By:
1	Stetus Update H. Apgar provided a status update. Hazard profiles are in progress Confirming goals/objectives, SWOO Communities undertaking municipal annex on their end Updating General Building Stock H. Apgar reviewed the needs for the CRS update Municipal Status Update: reviewed what municipalities are working on. Draft annexes under construction	Tetra Tech to send out a list of plans
2	Stakeholder and Public Outreach Te undertaking outreach through a website, press release/social media, and surveys	SC to discuss/post link to HMP Tt to send social media tools
3	Mission Statement/ G&O L Tedescor recommended breaking up the mission statement Suggestion to add resiliency component to Goal 3 (Leslie) Add resiliency instead of sustainability Andrew Lewis suggested adding community groups/organizations to #6 Lenore- #5- concern about sustainable construction Marty- Goal 3 to talk about supply chain for stores and supplies Chris: "promote resiliency, awareness, and continuity of operations" Remove references to all hazards in objectives Newly-worded goals: Goal 3: Promote Resiliency, Preparedness, and Continuity of Operations between Government, Businesses, and Community Groups and Organizations Goal 5: Protect Open Space, the Environment, and Natural Resources Through Short and Long-Term Actions Focused on Preservation and Sustainability.	Tt to re-send modified mission statement, goal and objectives. Steering Committee to review and confirm mission statement, goals and objectives
4	Hazards of Concern - Received 23 responses to Hazards of Concern - Geological hazards included/non-included. Lenore expressed that there were mitigation options for subsidence-water conservation. Rood reduction.	Tt to make changes to HOC based on SC input. Tt will

Page 1 of 2

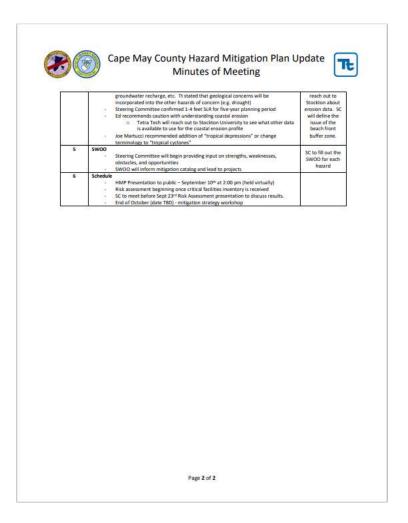




Figure C-9. Steering Committee Meeting #2 Presentation

8/20/2020



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8/20/2020

Status Update

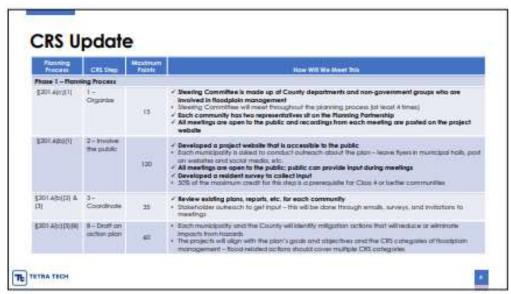
- · Data Collection In Progress
 - ✓ Plan Collection Complete Feedback Requested
 - ✓ General Building Stock County Input Complete-RS Means Update in Pragress
 - Critical Facility Inventory In Progress - municipalities each received a list at critical facilities in their municipality to review and update
- Risk Assessment In Progress
 - o Hazard Profile Drafts Initiated

- Public Involvement In Progress, Must Document
- Mitigation Strategy
 - a Confirm Goals In Progress
 - o SWOO In Progress
 - Municipal Annex Updates In Progress
 - Identity Problem Areas In Progress
 - Develop Mitigation Strategy -Pending



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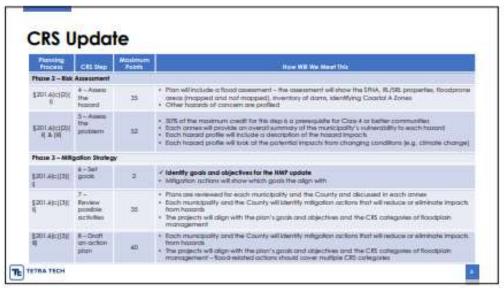
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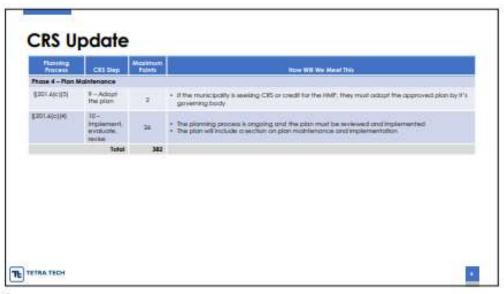
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Municipal Participation Status

- Annex Development Workshops taking place on August 11 and August 13 (postponed due to tropical storm and damages last week)
- Municipalities are now working to fill out and update their draft annexes
 - History of past hazard event impacts
 - Capabilities
 - Review of 2015 mitigation actions
 - · Identification of "problem areas"



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Stakeholder and Public Outreach Strategy

- Website
 - Tetra Tech created a project website and provided tink to the Steering Committee and Planning Partnership. OEM to include link to project website on their department site.
- + Press Release and Social Media
 - Tetra Tech has provided sample press release and will provide social media posts for the County and municipalities to use.
 - The County submitted the press release yesterday and it appeared in the Cope May County Herald (online)
- Surveys (resident and stakeholder) and information flyer created
 - Next step distribute and advertise survey links and flyers Tetra Tech will send out graphics and text for municipalities to use we need you, the Steering Committee, to past about the HMP tool
 - Stakeholders and neighboring counties to receive email explaining the plan update and links to the surveys created to collect input
 - Municipalities to post an HMP project link and flyer on their website; press release sent to newspapers
- + Outreach: Present key Info on HIVP process at local meetings

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Mission Statement, Goals and Objectives Exercise · The Steering Committee was asked to provide message of the plon input on the mission statement, goals, and objectives. As of August 10th, we received General guideline seven responses - THANK YOU! on what is to be achieved The following summarizes the responses received involving suggested changes to the goals and objectives and the addition of a Measurable shortterm actions mission statement. Implementable actions TE TETRA TECH

Mission Statement

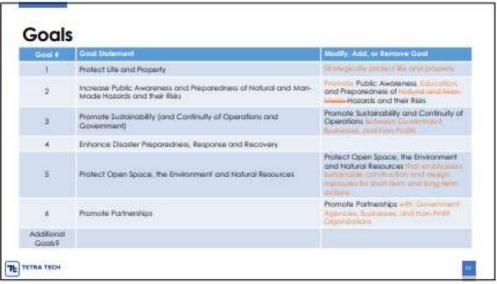
- The 2015 HMP did not have a mission statement. However, a mission statement provides the overall purpose and message of the HMP for the County.
- We asked the Steering Committee to provide input on what the mission statement should be.
 Based on feedback, we suggest the following:

The mission of the Cape May County Multi-Jurisdictional Hazard Mitigation Plan, through partnerships and careful planning, is to identify and reduce the vulnerability to natural disasters in order to protect the general health, safety, welfare, quality of life, environment and economy, and to support increased community resiliency throughout Cape May County.

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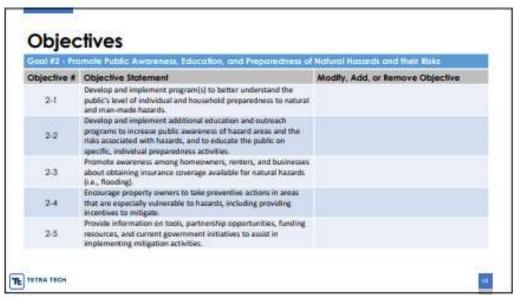
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	Strategically protect the and property	
STREET, STREET	Objective Datement	Hodly, Add or Remove Objective
10	Freiheld efficial facilities and Whartuches.	
1.0	Addes repetitive and severe repetitive suspressed in:	
1-0	Incrusings the extraordiment of policies to help ensure the prioritization and implementation of origination continue projects designed to benefit essential focalities, revivoles and inhumberties.	
7947	Frace a high planty on addresing more julyabal to otherwest. Hat may jested the freey and effective evacuation.	
94	Identify and implement measures that extracts the capabilities of the County to better profile and asset reposers to refusal and man-made hazards and develop appropriate also reduce that strategies.	
164	Better characterize food/starre-derivated event, by constuding additional funcion studies and identify indisequate starre-derivatives and poorly distinct area.	
14.	Develop, maintain, ittergifien and provide enforcement of archanice, regulations, plans and other in echanisms that facilitate facilitate mitigation.	
140	tringrate the recommendations of the pronting entiting occupangeme.	
100	Draws that development's dame soccording to readent and appealable mandards, wickloding the consideration of todard hazard list in tund use planning and building design approval process.	Draws that development is done property ty modern comparate, and was rate transacts, including the complete of matural fraction his in bandule planning and fishting design approved process.
1-10	stentify and pursue funding apportunities to address secretarities	
3-01	steriffy and pursue funding apportunities to develop and implement local and sounly militarities activities.	

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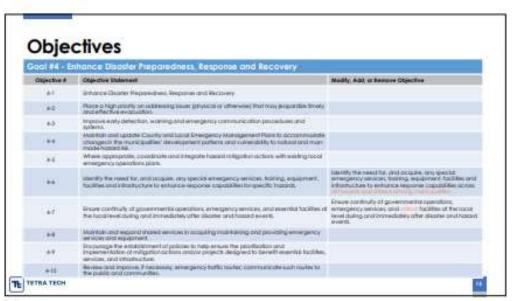






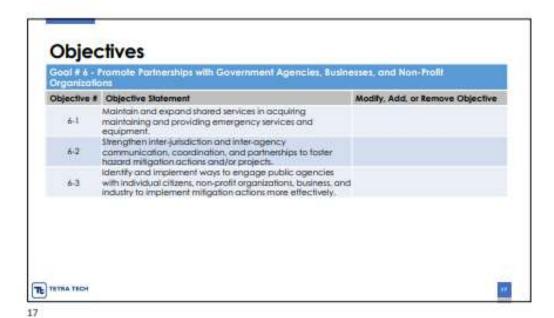
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Soot # 3 - P Notes	romote Sustainability and Continuity of Operations Between Gr	overnment Businesses, and Non-
Objective #	Objective Siglement	Modify, Add, or Remove Objective
3-1	Fromote the development of government and business continuity plans.	Fromote the development of government to a not construct to the construction of the co
3-2	Encourage the intrahibrerist of policies to help ensure the prioritization and implementation of miligation actions and/or project designed to benefit esential facilities, services, and intrahilucture.	
3-3	Ensure continuity of governmental operations, emergency services, and essential facilities of the local level during and immediately after deaster and hozard events.	Ensure confinuity of governmental operations, emergency services, electric activities to collect a the local level during and immediately after disoster and hazard events.
3-4	Develop and maintain adequate services and utilities to serve the County's population, businesses, and touten.	Develop and maintain adequate services and utilities to serve the County's population businesses.



15

	By the need for, and acquire, any special emergency services, hairin, sparse capabilities across of houseds and shared among municipable	
Objective #	Objective Statement	Modify, Add, or Remove Objective
5-1	Protect and preserve environmentally sensitive and critical areas.	
5-2	hotect and restore natural lands and features that serve to mitigate sous (including beaches; dones, willtands, floodgibers, shear conidors, maine flad mashes, and the back boy areas). Such lands should be dearly mapped and identified for protection.	
5-3	Confinue to preserve, profect and acquire open space, particularly in high hazard orest. Include hazard considerations into the prioritization schema for land acquisition.	
5-4	Incorporate coasta hazard consisterations into land-use planning and natural resource management.	
5.5	Promote sustainable land development practices.	Promote sustainable and coultains land development practices.
5-6	Maintain National Hillanc Landmark status of municipalities within the County through preservation of historic and architecturally lightfooth status.	



HOC Exercise Results

The survey was sent out to the Steering Committee and Planning Partnership - 23 responses

Nearly all respondents noted an increase in most types of hazards

The majority of respondents did not respondents did not



Hazards of Concern

Based on the responses received, the 2020 Hazards of Concern will include:

- Climate Change and Sea Level Rise
 - We typically look at sea level rise between 1 foot and 4 feet – does the Steering Committee feel this is acceptable?
- Coastal Erosion
 - Our GIS staff recommends using the shareline with a 120-foot buffer to conduct the exposure area.
 - If data is available, we could potentially use data collected for Stockton University's beach profiles
- Disease Outbreak (COVID-19, influenza, masquifo-borne, and fick-borne)

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- Drought (to include discussion on saltwater intrusion)
- o Flood (flash/riverine, coastal, dam failure)
- Hurricane and Trapical Storm
- o Nor'Easter
- Severe Weather (hail, wind, lightning, thunderstorms, tornadaes, extreme temperatures)
- Severe Winter Weather(heavy snow, blizzards, sleet, freezing rain, and ice storms)
- Tsunami
- o Wildfire

*

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Critical Facilities and Lifelines • Municipalities have been supplied their lists of critical facilities for review. The lists must be returned by August 24th in order for any updates to be incorporated into the risk assessment. • Municipalities are also using this list to identify their lifeline facilities. | Manual Companion | Ma

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Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

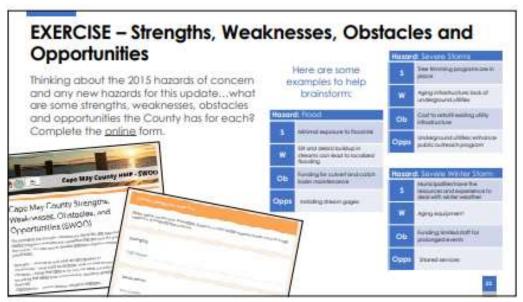
The purpose of the SWOO is to identify mitigation strategies and capabilities that will meet the goals and objectives of the plan update. It is also used to develop potential mitigation actions for the participating jurisdictions.

- · Strengths what we do well
- Weaknesses what could we do better
- Obstacles things that stand in the way, and either prevents you from doing something or something that need to be overcome
- Opportunities used to develop mitigation strategies

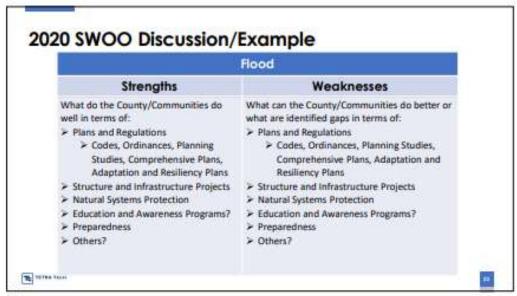


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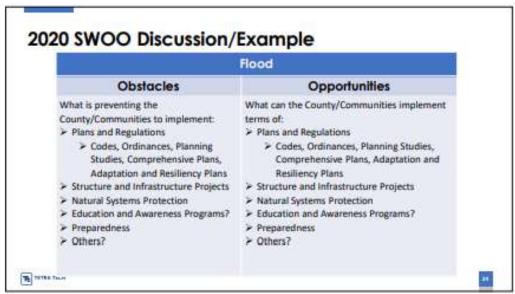
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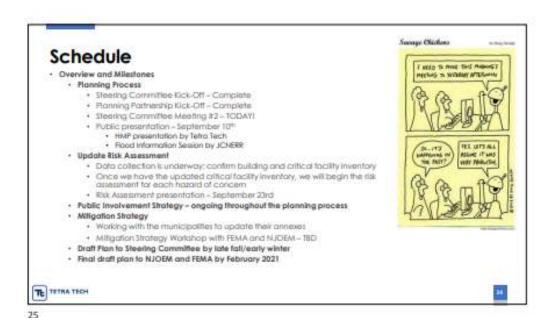


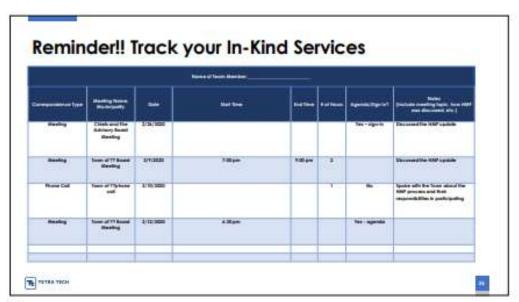


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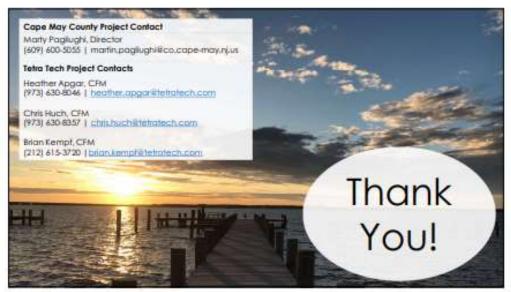


Next Steps Review Hazard Profiles Review Risk Assessment Results Identify Problems and Problem Areas Develop Mitigation Strategy Review Draft Plan Submit Draft Plan for NJOEM/FEMA Review Adopt FEMA - Approved Plan Implement Projects and Maintain the Plan Increase Resilience!

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Figure C-10. Hazard Mitigation Plan Public Presentation

12/10/2020







What is Hazard Mitigation?

- Hazard mitigation describes actions taken to help reduce or eliminate long-term risks caused by hazards or disasters.
- There are several steps a community can take to help mitigate hazards – developing a Hazard Mitigation Plan (HMP) is one of them.

provides the blueprint for reducing the potential losses identifies in the risk assessment, based on existing authorities, policies, programs and resources, and local shifty..." (CFR)



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What is a Hazard Mitigation Plan?

- Mitigation is most effective when it is based on a comprehensive, long-term plan that is developed BEFORE a disaster occurs.
- A Hazard Mitigation Plan (HMP) is used to identify policies and actions that can be implemented to reduce risk and future losses from hazards and disasters.
- It is a community-driven, living document that encourages communities to integrate mitigation into their day-to-day operations and decisions.



4



Why Prepare an HMP?





- An HMP provides a strategy to reduce or eliminate damages from disaster and break the cycle of disasters and damages.
- Reduces the risk to people and property and reduces the cost of disaster recovery.
- Identifies ways communities can become more resilient and disaster-resistant.
- Communities remain eligible for FEMA predisaster mitigation funding.

5

Why Update the Current Plan?

- Every five years, FEMA requires a County's HMP to be updated.
- . The mitigation plan update will:
 - Help the County prepare for and mitigate the effects of disasters
 - Continue to allow the county and participating partners to be eligible for preand post-disaster mitigation funding
 - Support CRS participation/rating of municipalities

	TE 11
Silpard	\$100.5 million
Coastal Food	\$321.3 million
kird/Wind Chill	10
rought	50
SCHOOL PART	10
Rood/Flash Flood	\$5.7 million
168	10
Navy Rain	\$150,000
tign Staff	\$42.03 million
turniane/ Tropical Sterm/ Popical Depression	\$6.8 million
ightning/Thursdenstern	\$1.4 million
formedo/Funnel Cloud	\$802,750
Mind	\$216.7 million.
Ninter Weather	\$2.8 million
Wildhie	\$10,000
109AL	\$696 million+

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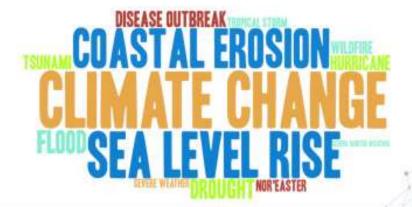


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How Can I Provide Input?

- Visit the HMP website https://www.capemaycounty2020hmp.com/
- Attend meetings meeting information is posted on the website
- Take the survey https://www.surveymonkey.com/r/CMC2020HMP
- Review the draft plan a draft should be posted by the end of the year; check the website for updates

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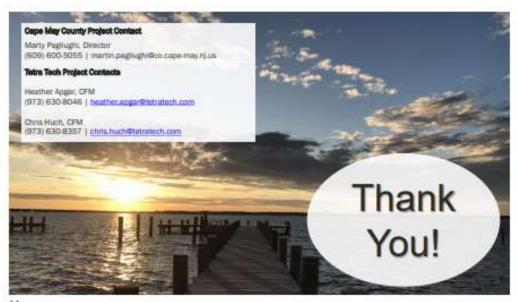


What's Next?

- Upcoming meetings
 - *Risk Assessment Presentation September 23, 2020
 - *Mitigation Strategy Workshop October 28, 2020
- Public outreach ongoing

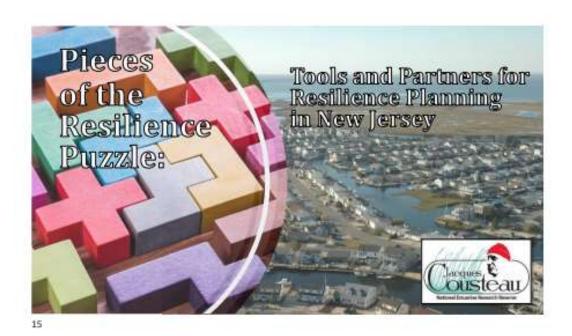


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What is resilience?



"bouncing forward"

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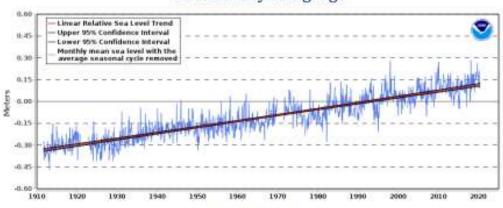






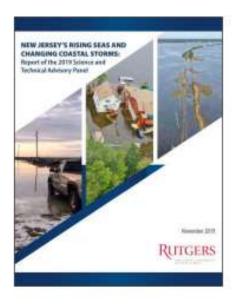


Atlantic City tide gauge



4 mm/year 1.35 feet over last 100 years

22



23

How Much Will Sea-Level Rise in New Jersey?

Table 3. New Jersey Sea-Level Rise above the year 2000 (1991-2009 average) baseline (ft)*

		2030	2050	2070		2100		2150					
		Emissions											
	Chance SLR Exceeds			Low	Mod.	High	Low	Mod.	High	Low	Mod.	High	
Low End	>95% chance	0.3	0.7	0.9	1	1.1	1.0	1.3	1.5	1.3	2.1	2.9	
Likely Range	> 83% chance	0.5	0.9	1.3	1.4	1.5	1.7	2.0	2.3	2.4	3.1	3.8	
	~50 % chance	0.8	1.4	1.9	2.2	2.4	2.8	3.3	3,9	4.2	5.2	6.2	
	<17% chance	1.1	2.1	2.7	3.1	3.5	3.9	5.1	6.3	6.3	8.3	10.3	
High End	< 5% chance	1.3	2.6	3.2	3.8	4.4	5.0	6.9	8.8	8.0	13.8	19.6	

*2010 (2001-2019 average) Observed = 0.2 ft

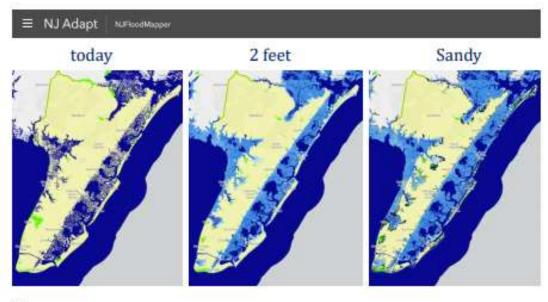
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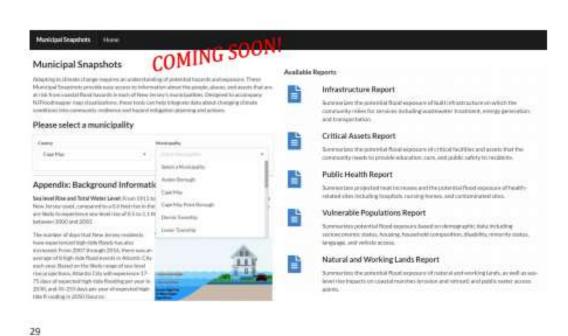
FEMA Flood Zones

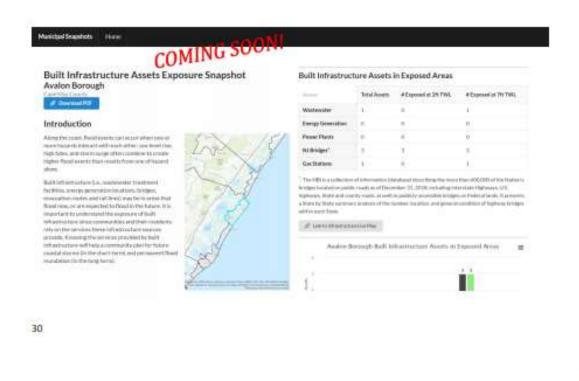


Many map layers to choose from











Getting to Resilience

31

ENABLING COMMUNITIES TO BE PREPARED AND MORE RESILIENT.



ASSESS Q

Use the ordine mapping tools to help visuelize your community's exposure to correct and future hazards.

PLAN 🖵

Complete an ordine assessment of your municipal preparedness, planning and public outseach activities around flood hazands.

IMPLEMENT O

Utilize the resilience recommendations to prioritize next steps and future municipal actions.

Section 1
The A William State Assessment

Section 3
Planning Integration

Section 4
The allow Propositions and Recovery

Section 5
Harved Historical Implementation

Linkages

See your times to other proporties

Risk & Vulnerability Assessments

While this entire New Jersey shore is vulnerable to roped at tozando, the Wellincop and assessing of trease hazando winter depending upon a continuity's paragraphy and the integrity of its natural backs. This and vulnerabley assessments can intern municipal affoliate of primarise populations. It is an account that in a population of the continuity of the paragraphy and continuity of the continuity of the

Girota	m	*	88.	Holes	-
CF - New year community discount analysis therefore president county becomes and discount?	-		-	sens	0
6.5.5 Has your common only documented provinces a coccus frame this and discourse through shifteness and are reported, selected appearance or reported, since the appearance of the posterior of the province	,			MIC.	0
1.2 Hely year community disfraud housed posteriolity, frequency magnitude, and start lend	,			water	0



Integrating Vulnerable Populations into Resilience Planning





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Plan integration Master Plan Ali-Hazards Mitigation Plan Floodplain Management Plan Evacuation Plan Emergency Response Plan Continuity of Operations Plan Disaster Recovery Plan Open Space Plan Stormwater Management Plan



Community Rating System

Sustainable Jersey

Hazard Mitigation Planning

34





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36

















FEMA







37

State Climate Change Resilience Strategy













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Figure C-11. Steering Committee Meeting #3 Agenda



CAPE MAY COUNTY HAZARD MITIGATION PLAN UPDATE Steering Committee #3 – AGENDA MEETING DATE/TIME: September 21, 2020 – 10:00 am – 11:00 am



Virtual Meeting

Dial-In Phone Number: +1 213-357-2812; Conference ID: 155 017 089# Join by Meeting: https://bit.lv/35CvRwt

- 1. Opening Remarks
- 2. Project Status where we are in the process, public outreach, Survey discussions
- 3. Risk Assessment Overview
 - Hazards of concern risk ranking
 - Results of each risk assessment for each hazard
 - How will this information be used in the HMP
- 4. Feedback and Input
- 5. Next Steps
- 6. Adjournment

Cape May County Project Contacts

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Tetra Tech Project Contacts

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6 Century Drive, Parsippany, NJ 07054 (973) 630-8357 | chris.huch@tetratech.com

Brian Kempf, AICP, CFM

498 7th Ave., 15th Fir., New York, NY 10018 (212) 615-3720 | <u>brian.kemof@tetratech.com</u>





Figure C-12. Steering Committee Meeting #3 Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting



10000	oose of Meeting: Steering Committee Meeting #3 tion of Meeting: Microsoft Teams		
Date/T	ime of Meeting: September 21, 2020 – 10:00am to 11:00am		
Attendees	Stewart Farrell Leslie Gimeno, Cape May Planning Kevin Thomas, Director Cape May County Health Department Joseph Lomax, Lomax Consulting Group Jody Alessandrine, Cape May MAC Meghan Wren, NJ OPA Joe Martucci, Press of Atlantic City Scott Wahl, Avalon Jason Downie	Thomas Thornton, Mott M. Thomas H. Heist, IV, Tom H. Vanessa Dornish, JC NERR Tom Quirk, NJ Coastal Coal Ed Mahaney, NJ Coastal Co Heather Apgar, Tetra Tech Chris Huch, Tetra Tech Brian Kempf, Tetra Tech	leist Insurance lition alition
Summary	Update Steering Committee on risk ranking data and hazard rank	ings for the County and mu	20000000
Item No.	Project Overview - Next meeting is Risk Assessment to Planning Partnership, then mitigation strategy - More than 200 responses to citizen survey		Action By:
2	New tool to drop pin on a map for vulnerable areas Risk Assessment	3	0
3	County Ranking Hurricane, severe weather, flood, climate change/SLR, severe winter weather: high Nor'easter, disease outbreak, coastal erosion, tsunami, wildfire, drought — medium Tom Heist: seems that nor'easter would have more damage; is climate change able to be quantitatively ranked as being high? It's based on impact to population, property, economy. Insurance claims demonstrate seriousness of nor'easters Joe Martucci: I believe it would be helpful to differentiate from flooding due to the tides (like we've had this weekend) and flooding from rain. Coastal flooding is more important to the county than rainfall flooding, historically. Ed Mahaney: Surprising that nor'easter wasn't ranked higher. Benchmark storms are nor'easters Stew Farrell: FEMA CRS program has been having multiple communities seeking a "Class 4" for watershed management plan. In 2017 FEMA added SLR impacts to individual communities. CMC, CMP, WCM, Upper in progress for WMP. Sea Isle, SH and Avalon completed Preliminary ranking for municipal assumed some changes		Communities to send watershee management plans to Tetra Tech to incorporate WMPs into Volume 1 Re-rank nor'easter to high
4	Hazard Ranking		CHARLES AND A STATE OF
	 CC/SIR: looking at over 7,366 people exposed to 3-foot SI temperature across NJ since end of 1890s. More than 9,6 3-foot SIR 	THE RESERVE OF THE PROPERTY OF	Steering Committee to provide feedbar on hazards

Page 1 of 1



Figure C-13. Steering Committee Meeting #3 Presentation

9/21/2020



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Project Schedule Review √ August 2020 Kick-Off Meetings August - September Data Collection September 21, 2020 Risk Assessment Presentation to Steering Committee -September 23, 2020 Risk Assessment Presentation to Planning Partnership □ September – October Update Hazard Profiles - in Progress October 28, 2020 Mitigation Strategy Workshop □ October – November Develop Problem Statements with Municipalities and County ☐ November-January 2021 Plan Development ☐ January 2021 Review Draft Plan ☐ February 2021 Plan Submitted to FEMA and NJOEM TETRA TECH

Municipal Participation Status following up with indistrict departments W1W2000 hesson (E) Avnes in progress . To date, we have received Letters of Ames in progress Intent to Participate (LOIP) from all but Received critical facilities input three municipalities. Armes in progress Next Step for Annex Completion includes confirmation of Risk Ranking Ames in progress Assessment, status updates on previous Annex in progress mitigation projects from the 2016 HMP Americ progress Armes in progress and identifying new projects for the na History (8) Ames in progress 2020 Update. Annex'm progress Arnes in progress aut Cope May (E) Upcoming steps include problem Emplied on 9/10/2020 - how not statement brainstorming and mitigation heard from Arrise in progress project identification. Annex in progress TE TETRATICH Arous in progress

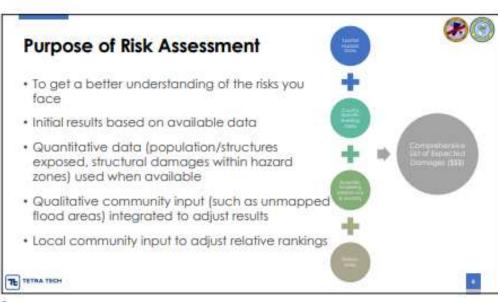
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Risk Assessment





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Preliminary Hazard Ranking How are the rankings calculated?

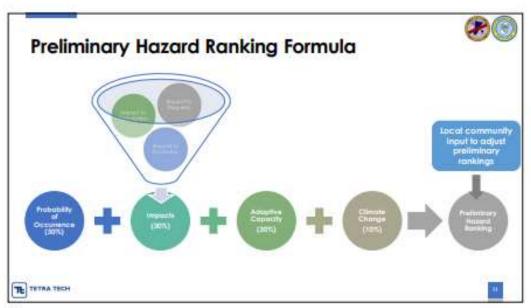
Preliminary Hazard Ranking Methodology



- The calculated probability of a hazard occurring based on historical data
- Impacts to people, property, and the economy based on GIS data and analysis of exposure.
- The degree to which <u>climate change</u> will affect future occurrences based on best available data.
- Capability- the ability of your community to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness.



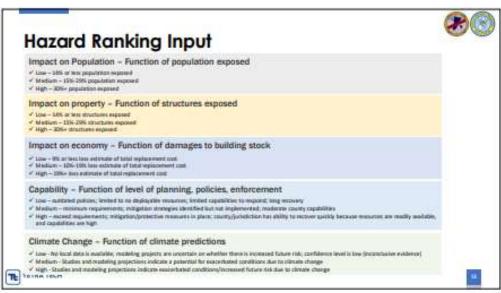




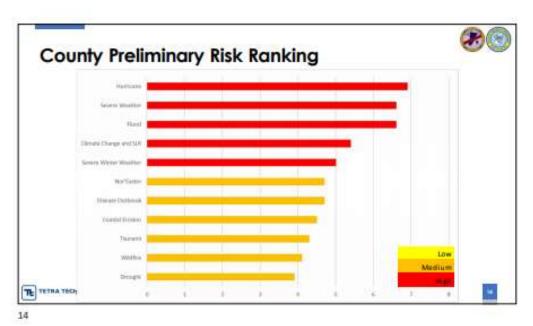
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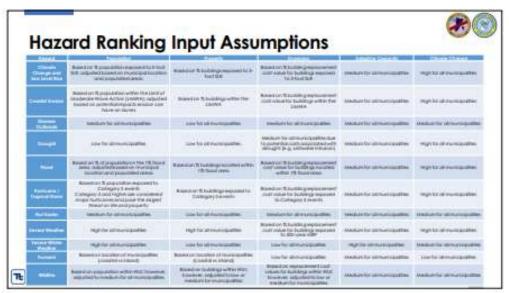


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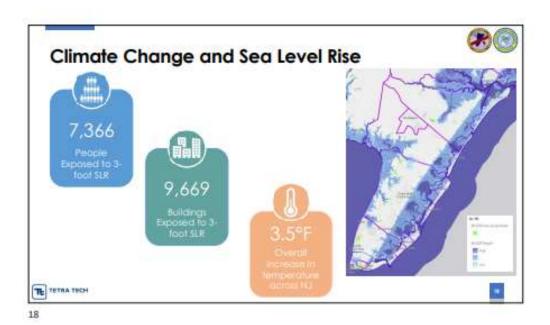


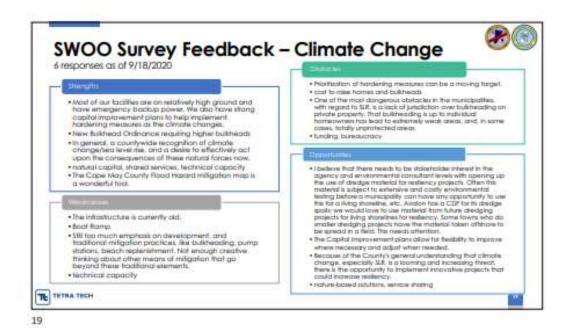
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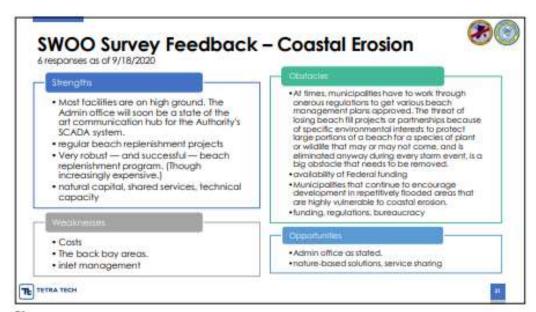


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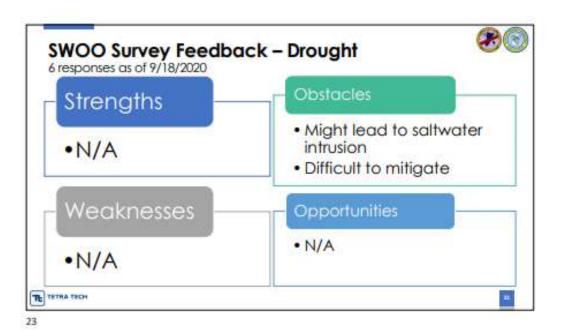


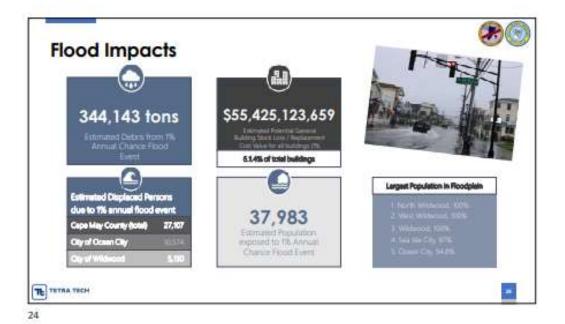


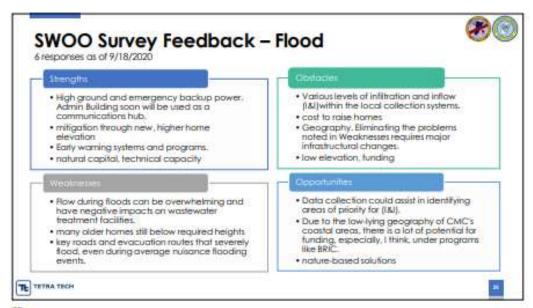


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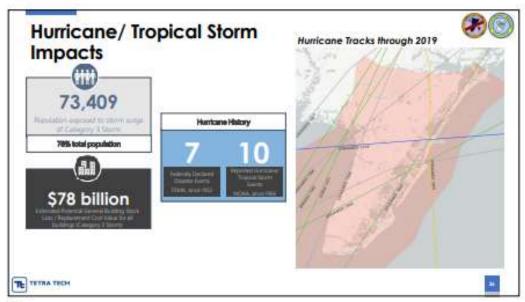


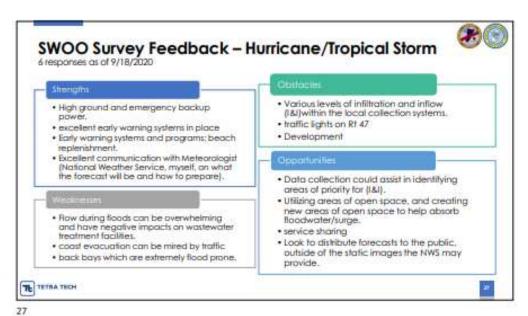






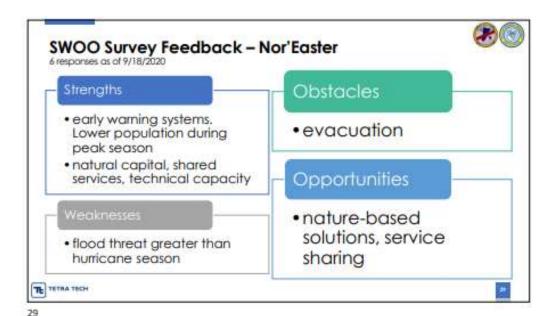
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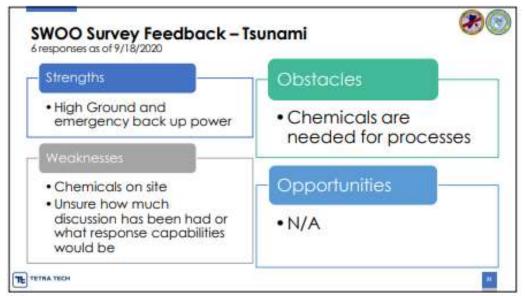




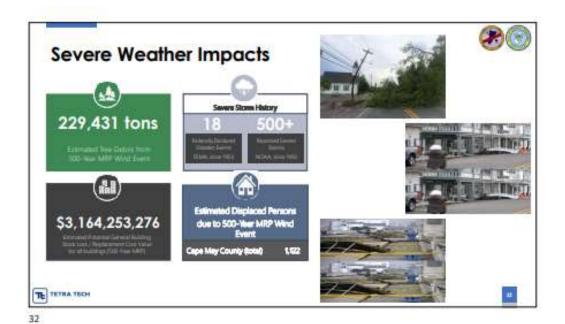
Tsunami

While all coastal areas are vulnerable to tsunami events, Cape May County has a relatively low threat of tsunamis.

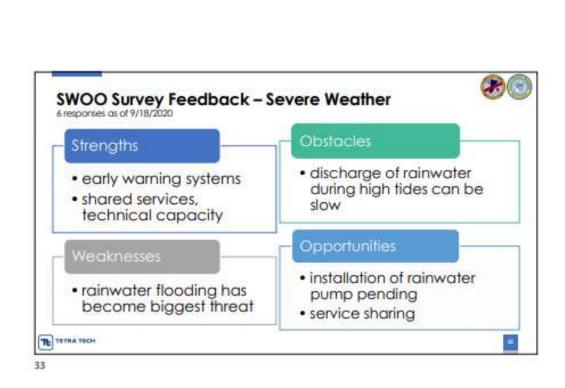
Most recent tsunami event to occur in the County was an July 15, 2018 and it was classified as a meteotsunami.

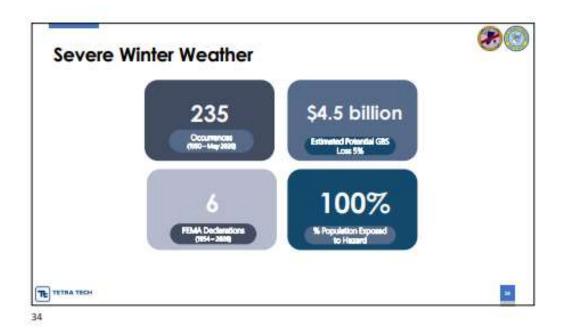


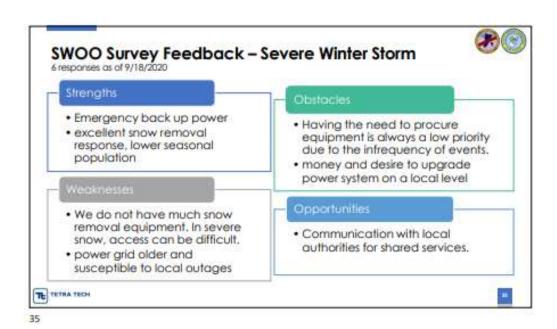
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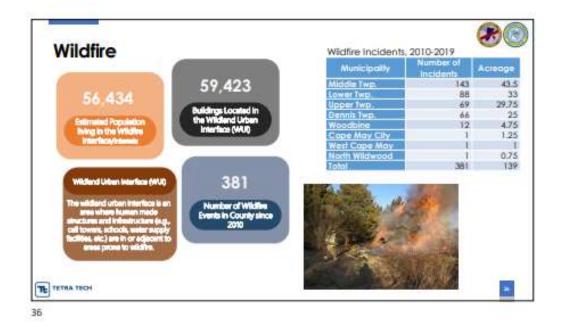




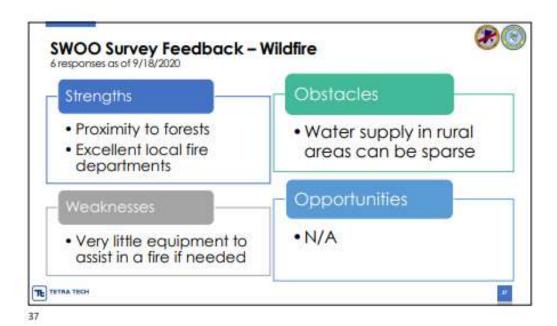


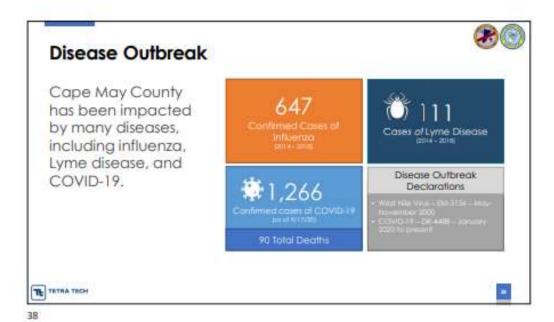






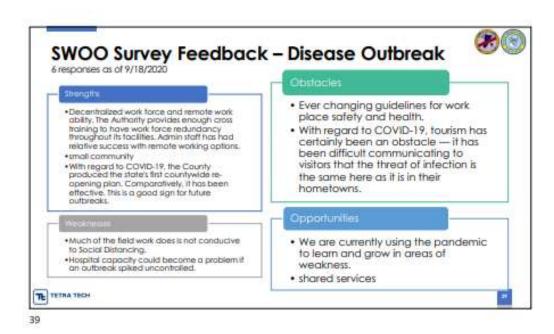












Mission Statement, Goals, and Objectives



Mission Statement, Goals and Objectives • The following provides the outcome of Steering Committee and Planning Partnership input on the Mission Statement, Goals and Objectives. The mission of the Cape May County Multi-Jurisdictional Hazard Mitigation Plan is to protect the general health, safety, welfare, quality of life, environment and economy, and to support increased community resiliency and mitigation throughout Cape May County. The plan will accomplish this mission through reducing the vulnerability to natural disasters (particularly coastal flooding) through partnerships and careful planning.

HMP Goals Update

Goal # Goal Statement

1 Strategically protect life and property

2 Promote public awareness, education, and preparedness of hazards and their risks

3 Promote Resiliency, Preparedness, and Continuity of Operations between Government, Businesses, and Community Groups and Organizations

4 Enhance Disaster Preparedness, Response and Recovery

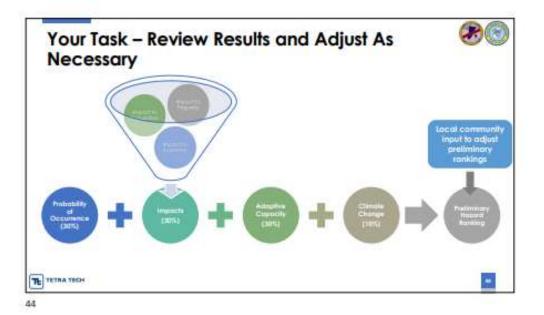
5 Protect Open Space, the Environment, and Natural Resources Through Short and Long-Term Actions Focused on Preservation and Sustainability

6 Promote Partnerships Government, Businesses, and Community Groups and Organizations



Looking Ahead

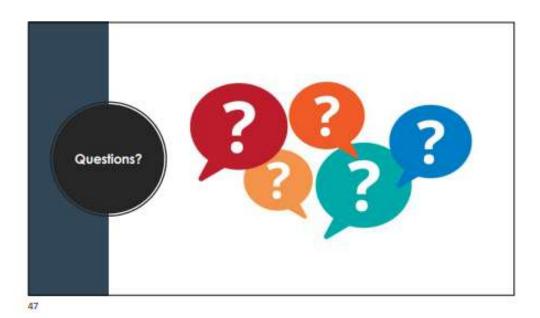
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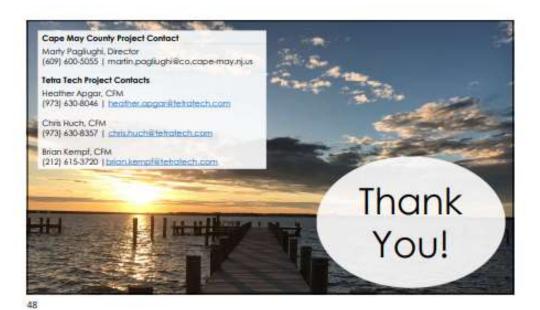




Figure C-14. Planning Partnership Meeting #2 Agenda



CAPE MAY COUNTY HAZARD MITIGATION PLAN UPDATE Planning Partnership #2 – AGENDA MEETING DATE/TIME: September 23, 2020 – 10:00 am – 11:30 am



Virtual Meeting
Dial-In Phone Number: +1 213-357-2812; Conference ID: 549 575 712# Join by Meeting: https://bit.lv/2Fux5mo

- 1. Opening Remarks
- 2. Project Status where we are in the process, public outreach
- 3. Risk Assessment Overview
- 4. Preliminary Hazard Ranking
- 5. Next Steps upcoming meetings, next step for annexes
- 6. Questions
- 7. Adjournment

Cape May County Project Contacts

Marty Pagliughi, Director Cape May County OEM (609) 600-5055 | Martin.Pagliughi@CO.CAPE-MAY.NJ.US

Tetra Tech Project Contacts

Heather Apgar, CFM 6 Century Drive, Parsippany, NJ 07054 (973) 630-8046 | heather.apgar@tetratech.com

Chris Huch, CFM

6 Century Drive, Parsippany, NJ 07054 (973) 630-8357 | chris.huch@tetratech.co

Brian Kempf, AICP, CFM 498 7th Ave., 15th Fir., New York, NY 10018 (212) 615-3720 | <u>brian.kempf@tetratech.com</u>





Figure C-15. Planning Partnership Meeting #2 Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting



2003	ose of Meeting: tion of Meeting:	Planning Partnership Meeting #2 Microsoft Teams	
Date/T	ime of Meeting:	September 23, 2020 – 10:00am to	11:00am
Attendees:		, Cape May County OEM	Avalon: Scott Wahl, Tom Thornton, Ed Dean
	John Edwards, (Cape May County OEM	Cape May City: Louis Belasco
	Leslie Gimeno,	Cape May County Planning	Cape May Point: Anita VanHeeswyk
	Kevin Thomas,	Director Cape May County Health	Lower: Unidentified Caller
	Department		Middle: Sean McDevitt; Sal DeSimone; Rachel Shephard
			N Wildwood: Ron Simone
	Ralph Cooper, (Cape-Atlantic Sustainable Jersey	Ocean City: Frank Donato, Mike Koochembere
	Hub		Sea Isle City: Neil Byrne, Michael Jargowsky
	Tom Quirk, Ed I	Mahaney- NJ Coastal Coalition	Upper: Scott Morgan, Paul Dietrich
	Chris Testa, NJC		Stone Harbor: CPO Jonathan LaKose, Kim Stevenson, Rai
	Stewart Farrell.	NUCRC	Poudrier
	Vanessa		West Wildwood: Jackie Ferentz
	Josh Palombo, (Cape May County MUA	Woodbine: Bruce Graham; Tax Collector
	609 364 3849 (Unknown Number)	Heather Apgar, Tetra Tech
	609 231 8129 (Unknown Number)	Cynthia Bianco, Tetra Tech
	609 668 4397 (Unknown Number)	Michael Fowler, Tetra Tech
	856 364 3849 (Unknown Number)	Brian Kempf, Tetra Tech

Item No.	Description	Action By: Tetra Tech to distribute survey results to municipalities	
1	Welcome and Outreach M. Pagliciphi welcomed everyone and thanked participants for their participation H. Apgar reviewed public outreach efforts and discussed the online tool to capture vulnerable areas Survey responses were reviewed, including residents' proposed projects		
2	Risk Assessment • H. Apgar reviewed risk and how risk was calculated, including the ranking methodology • Includes quantitative and qualitative assessments • The hazard, exposure, vulnerability, adaptive capacity, and climate change were all factors used to calculate the preliminary ranking • The hazard ranking formula consisted of probability of occurrence, impacts (people, property and economy), adaptive capacity, and climate change • Assumptions needed to be made for some hazards (e.g., hazards where spatial data is limited) • B. Kempf reviewed to pievel hazard findings and what assumptions were made for each hazard • Climate Change and Sea Level Rise: looking at over 7, 366 people exposed to 3-foot SLR. 3.5 degree increase in temperature across N since end of 1890s. More than 9,600 buildings exposed to 3-foot SLR	Tetra Tech to distribute risk rankin worksheets Municipalities to review risk ranking worksheets and fill out sheets	

Page 1 of 2

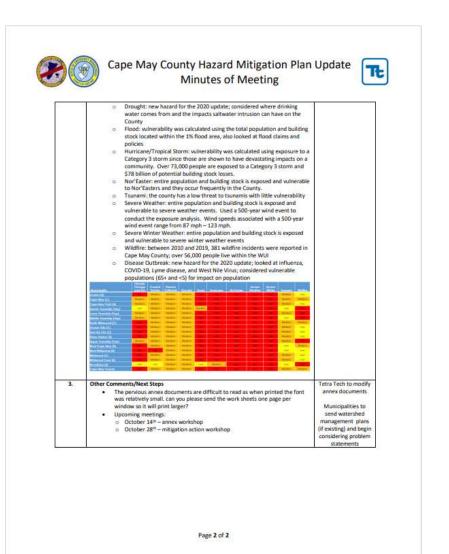




Figure C-16. Planning Partnership Meeting #2 Presentation

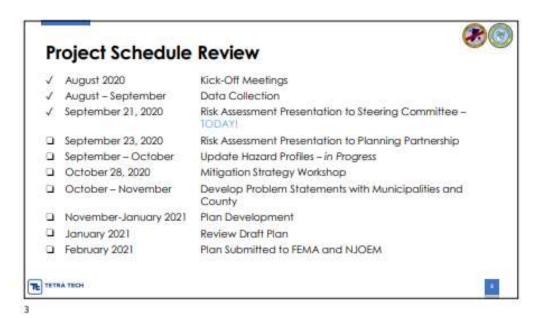
9/23/2020



1



2



Municipal Participation Status following up with individual departments W1W2000 Armes in progress To date, we have received Letters of Armes in process Intent to Participate (LOIP) from all but Received critical facilities input three municipalities. Next Step for Annex Completion Armes in progress includes confirmation of Risk Ranking Assessment, status updates on previous rth Wildwood (CI Annex in progress mitigation projects from the 2016 HMP Americ progress and identifying new projects for the Ames in progress 2020 Update. Annux'in progress Ames in progress Upcoming steps include problem Errolled on 9/10/2000 - hove not heard from statement brainstorming and mitigation Arrise in progress project identification. Annex in progress TE TETRATICH Armes in progress

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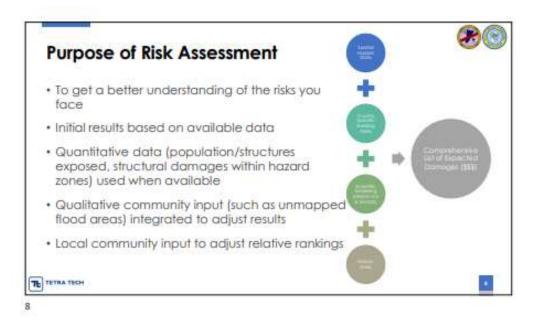


Risk Assessment

б









Preliminary Hazard Ranking How are the rankings calculated?

Preliminary Hazard Ranking Methodology



- The calculated probability of a hazard occurring based on historical data
- Impacts to people, property, and the economy based on GIS data and analysis of exposure.
- The degree to which <u>climate change</u> will affect future occurrences based on best available data.
- · Capability- the ability of your community to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness.

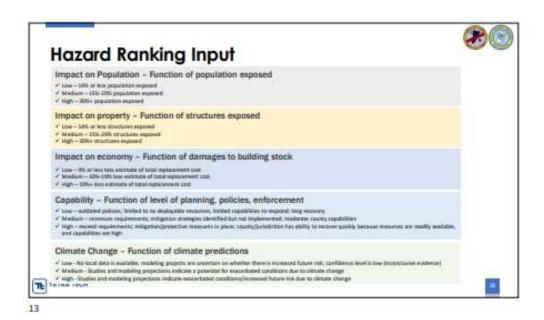


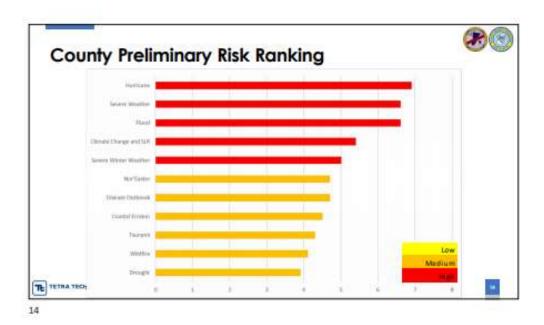


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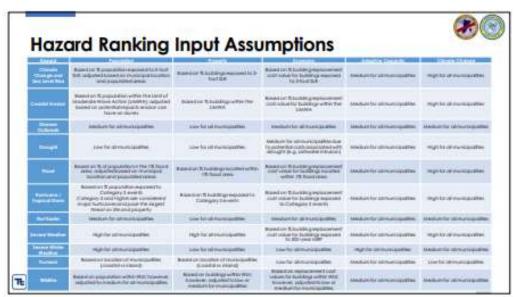




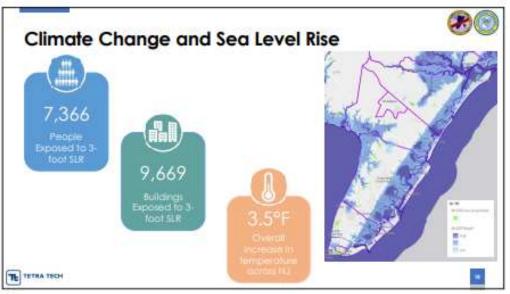


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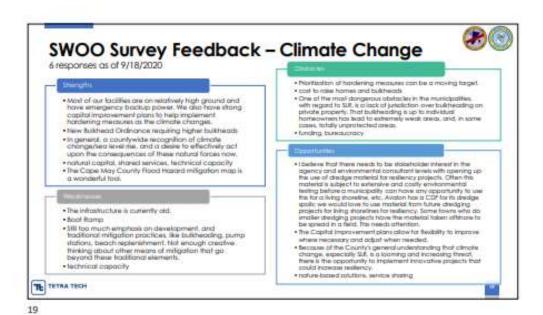


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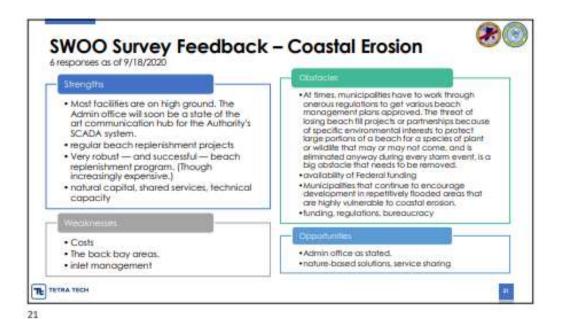
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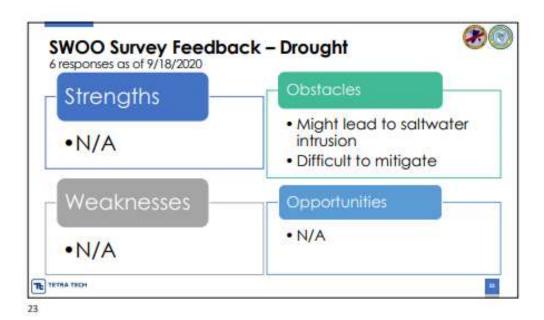




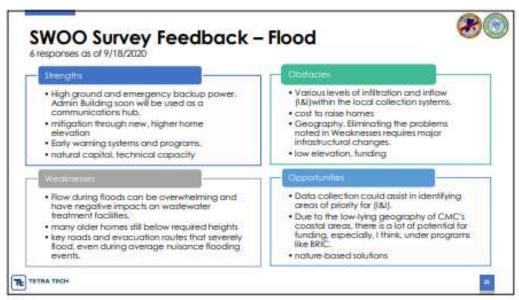
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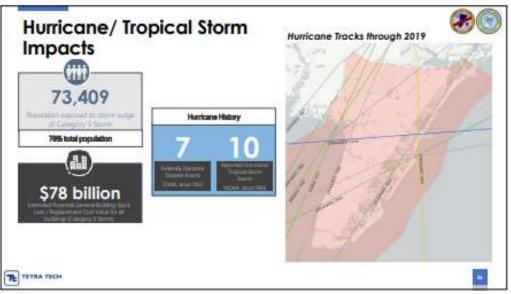
Drought Number of fame Drought conditions can lead to water supply shartages, impacting both groundwater and surface water suppries. \$9.8 M Drought conditions can exacerbate the rate of saltwater intrusion. In Cape May County, the southern end of the County has been impacted by saltwater intrusion. Dry conditions and lack of rain can impact forms and the agricultural economy. Cape May County is home to numerous vineyards, farms, and produce stands. THE TETRA TECH

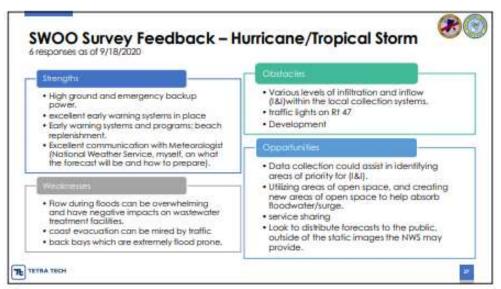




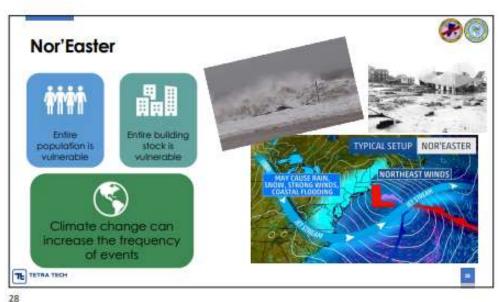


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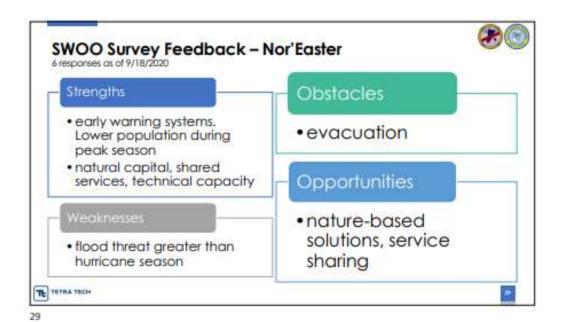


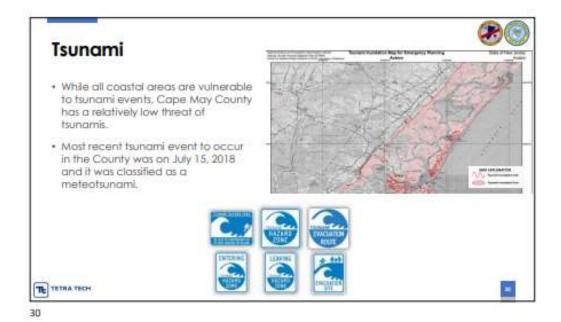


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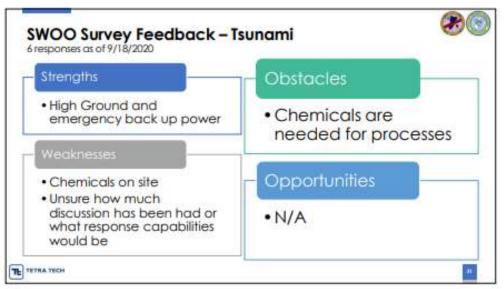




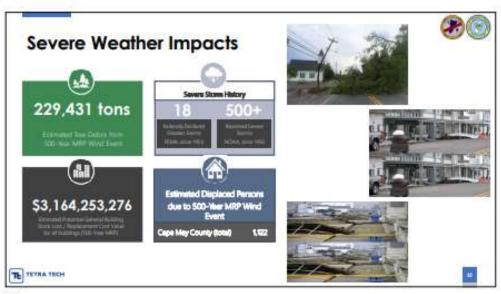


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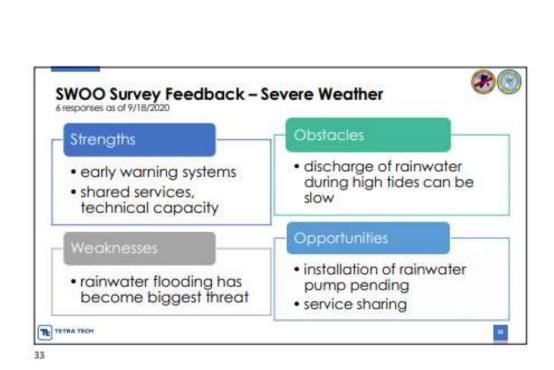


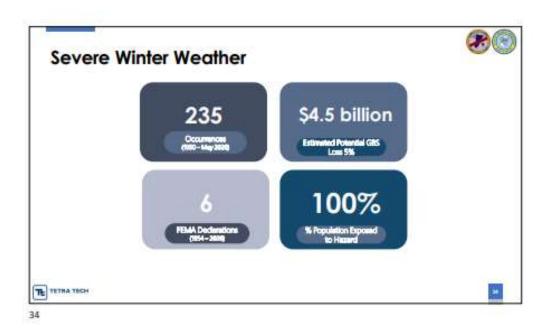


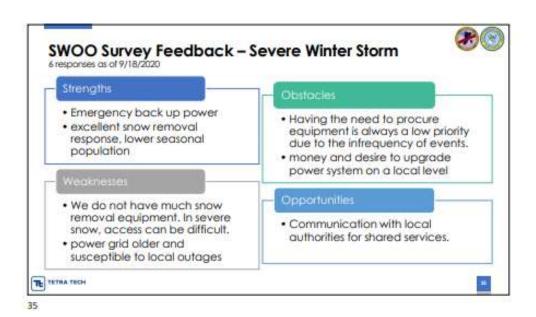
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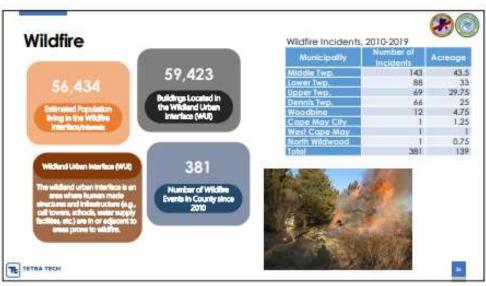






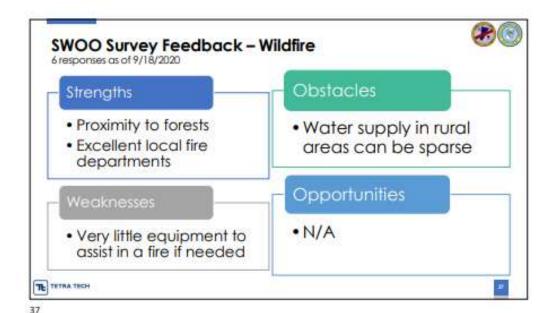


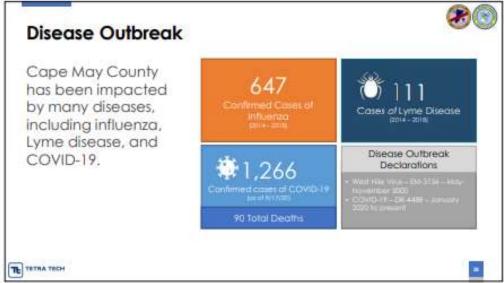


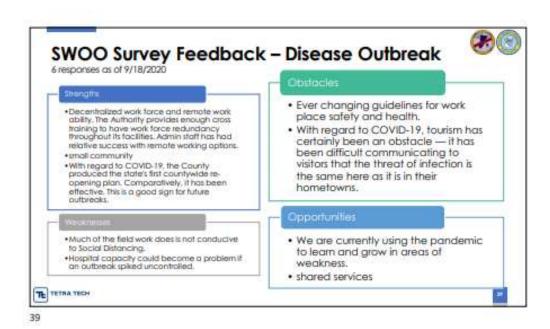


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Mission Statement, Goals, and Objectives



Mission Statement, Goals and Objectives • The following provides the outcome of Steering Committee and Planning Partnership input on the Mission Statement, Goals and Objectives. The mission of the Cape May County Multi-Jurisdictional Hazard Mitigation Plan is to protect the general health, safety, welfare, quality of life, environment and economy, and to support increased community resiliency and mitigation throughout Cape May County. The plan will accomplish this mission through reducing the vulnerability to natural disasters (particularly coastal flooding) through partnerships and careful planning.

HMP Goals Update

Goal & Goal Statement

1 Strategically protect life and property

2 Promote public awareness, education, and preparedness of hazards and their risks

3 Promote Resiliency, Preparedness, and Continuity of Operations between Government, Businesses, and Community Groups and Organizations

4 Enhance Disaster Preparedness, Response and Recovery

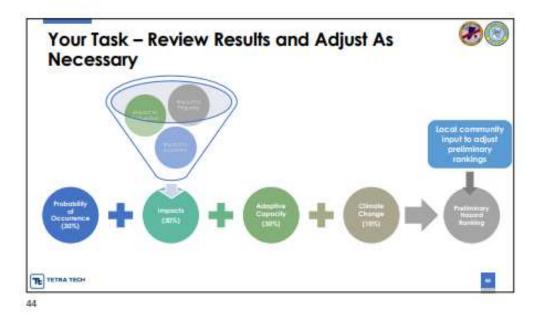
5 Protect Open Space, the Environment, and Natural Resources Through Short and Long-Term Actions Focused on Preservation and Sustainability

6 Promote Partnerships Government, Businesses, and Community Groups and Organizations



Looking Ahead

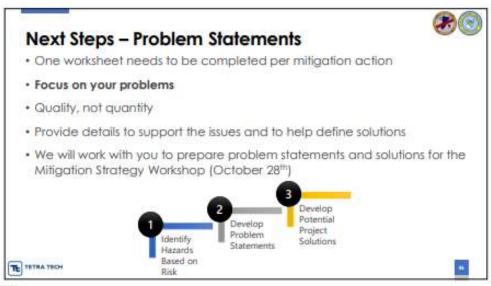
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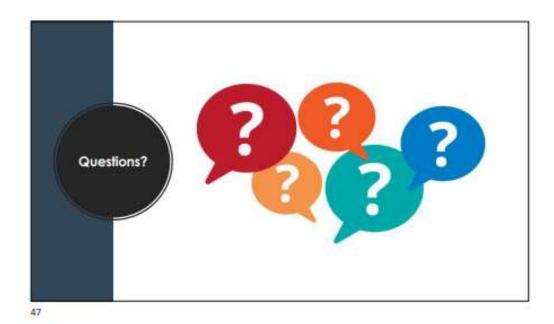


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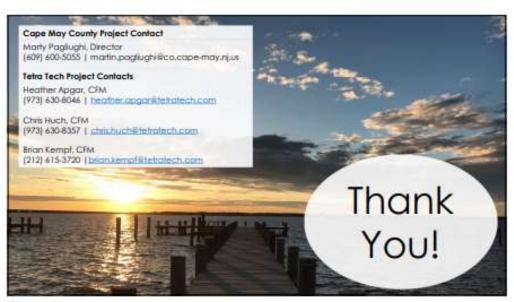




Figure C-17. Annex Support Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting

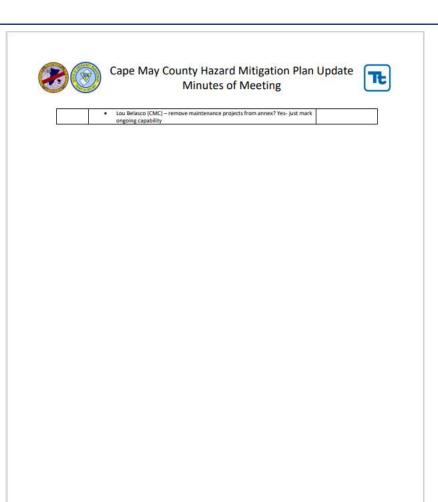


Purpose of Meeting: Annex Support Meeting Location of Meeting: Microsoft Teams Date/Time of Meeting: October 14, 2020; 1PM-Marty Pagliughi, Cape May County OEM
Kevin Thomas, Director Cape May County Health Avalon: Tom Thornton, Ed Dean Cape May City: Louis Belasco, Clarence Lear Cape May Point: Anita VanHeeswyk Ralph Cooper, Cape-Atlantic Sustainable Jersey Lower: Jennifer Dowe Middle: Sean McDevitt; Torn Quirk, Ed Mahaney- NJ Coastal Coalition Ocean City: Frank Donato Stewart Farrell, NJCRC Sea Isle City: Michael Jargowsky Upper: Scott Morgan, Paul Dietrich Stone Harbor: CPO Jonathan LaKose, Kim Stevensor West Wildwood: Carl O'Hara Unknown Numbers: 609 425 5391 Wildwood: Dan Dunn and Steve Booy Wildwood Crest: Constance Mahon Woodbine: Jos (Art) Barrodin Chris Huch, Tetra Tech Heather Apgar, Tetra Tech Brian Kempf, Tetra Tech

Agenda The Planning Team answered questions about the annex and introduced the mitigation strategy development and action worksheets.

Item No.	Description	Action By:
1.	Chris Huch reviewed hazard mitigation broadly and the importance of pursuing mitigation C. Huch reviewed public outreach, noting 194 citizen survey responses and that information is available on the website	Munis to help distribute survey; social media
2	Risk Reduction- aiming for self sufficiency - Manipulate hazard - Reduce volinerability (retrofit) - Increase capability (perparation, technical enforcement) - Mitigation Strategy Requirements - Quality not quantity remove generic - For past projects- if project is unfished but still priority, include in new HMP; - remove general projects, remove maintenance remove ongoing capabilities - Minimum of two quality projects- high ranked hazards need a mitigation - action - RL/SRL-need action w specifics (street or neighborhood names) - Complete AW's for FEMA-eligible projects - Brainstorming- turn gape/dostacle into action, examine historic impacts - Look at risk assessment results	Review Risk Ranking to confirm hazard ranking for high. Focus on diversity and variety of actions, not just structures Return brainstorming sheet by Oct 21* Completing AW's to be discussed \$10/28—attendance is required, will need to submit completed action worksheets.
3.	Questions Ed Dean-FEMA coastal re-study Nov 13th	

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Figure C-18. Mitigation Strategy Workshop Agenda



CAPE MAY COUNTY HAZARD MITIGATION PLAN UPDATE Mitigation Action Workshop – AGENDA
MEETING DATE/TIME: October 28, 2020 – 10:00 am – 11:30 am



Virtual Meeting
Dial-In Phone Number: +1 213-357-2812; Conference ID: 545 690 636# Join by Meeting: https://bit.ly/3kwGARo

- 1. Opening Remarks
- 2. Project Status where we are in the process, public outreach
- 3. Identifying and Developing Mitigation Strategies FEMA and NJOEM
- 4. Developing Action Worksheets
- 5. Next Steps upcoming meetings, next step for annexes
- 6. Questions
- 7. Adjournment

Cape May County Project Contacts

Marty Pagliughi, Director
Cape May County OEM
(609) 600-5055 | Martin.Pagliughi@CO.CAPE-MAY.NJ.US

Tetra Tech Project Contacts

Heather Apgar, CFM 6 Century Drive, Parsippany, NJ 07054 (973) 630-8046 | heather.apgar@tetratech.com

Chris Huch, CFM 6 Century Drive, Parsippany, NJ 07054 (973) 630-8357 | chris.huch@tetratech.com

Brian Kempf, AICP, CFM 498 7th Ave., 15th Fir., New York, NY 10018 (212) 615-3720 | brian.kempf@tetratech.com





Figure C-19. Mitigation Strategy Workshop Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting



Locati Me Date/Tii	eting: Microsoft Teams eting:	
Attendees:	Marty Pagliughi, Cape May	
	County OEM	Avaion: Tom Thornton, Ed Dean, Scott Wahl
	John Edwards	Cape May City: Patricia Gray Hendricks, Clarence Lear, Lou Belasco
	Leslie Gimeno	Cape May Point: Anita VanHeeswyk, Lou Belasco
		Lower: Jennifer Dowe
	Tom Quirk, Ed Mahaney- NJ	Middle: Sean McDevitt;
	Coastal Coalition	North Wildwood: Ron Simone
	Ed Mahaney	Ocean City: Frank Donato
	Stewart Farrell, NJCRC	Sea Isle City: Michael Jargowsky, Neil Byrne
	Tom Heist	Upper: Scott Morgan, Paul Dietrich
	Vanessa Dornisch	Stone Harbor: CPO Jonathan LaKose, Kim Stevenson, Ray Poudrier, Marc
	Megan Wren	Deblasio
		West Cape May: Lou Belasco
	Chris Testa	West Wildwood: Carl O'Hara
	NJOEM	Wildwood: Dan Dunn and Steve Booy
	Kelly Pflicke	Wildwood Crest: Constance Mahon
	Jason Downie	Woodbine: Jos (Art) Barrodin
	Josh Palombo	
	Lenore Tedesco	
		Chris Huch, Tetra Tech
	Unknown Numbers:	Heather Apgar, Tetra Tech
	(609) 231-3719 Anonymous	Brian Kempf, Tetra Tech

Item No.	Description	Action By:
1	M. Pagliughi welcomed municipalities H. Apgar reviewed the planning process and current progress on various parts of the plan INSERT TIMELINE	Munis to help distribute survey; social media Munis to continue working with Tt on annexes
2	Mitigation Strategy Table Action worksheets needed for any grant eligible project Mitigation actions for any high ranked hazard Quality not quantity If project not finished and still a priority, include in 2020 HMP Remove maintenance projects/general projects. Remove ongoing capabilities Repetitive and SRI- need an action with specifics. Chris Testa (NJOEM) State has pre-permit process for stockpilling storm debris Be minful that this is the community's tax base	Communities need a minimum of two quality projects (generator can be a third) Kelly to distribute link to funding resource: https://www.fema.cov/sites/default/files/2020 03/fema.resion-03.mitisation-funding: resource-suide_new-iersev_09-24-2020.pdf



Cape May County Hazard Mitigation Plan Update Minutes of Meeting



	- This is not "Dear Santa" time- prioritize feasible and cost-effective projects Kelly Pficike (FEMA) - Looking at technical assistance (e.g. land use initiatives) - MS does not need to solely focus on FEMA funding-also consider other state and federal funding sources. FEMA has put together a guide and will send a link - FEMA expectation- not a wish list, just think carefully about mitigation actions	
3.	Action Worksheets Training- C. Huch Look at diversity of actions Be sure to describe maintenance or other studies Action Worksheets will need to be completed for ANY project that can be funded by FEMA HIMA grants. Not every action requires an Action Worksheet – but most of the information needed for the Action Worksheet is needed for all identified actions. Start with the Mitigation Deveopment Worksheet and examine historic impacts, lifelines, and other vulnerabilities for ideas	Munis to begin developing action worksheets C. Huch and B. Kempf to assist Action worksheets to be completed for any project eligible to be funded for HMA/FMA Sample action worksheet due 10/29 Munis to refer to attached action worksheet instructions or reach out to Tetra Tech for assistance with filling out AW's
3.	Questions K. Pflicke- regarding nature-based solutions—FEMA has updated its policy on how ecosystem service benefits are considered and updated the benefit cost analysis to encourage nature based solutions M. Pagliughi offered that policy has changed for NFIP data—municipalities need to reach out to Marty and have routine use letter.	K. Pflicke to send link regarding nature based solutions Munis to submit at least one action workshee by Thursday, October 29 th Munis to finalize annexes as soon as possible

Page 1 of 2



Figure C-20. Mitigation Strategy Workshop Presentation

12/10/2020



Cape May County Hazard Mitigation Plan Update 2020

Mitigation Strategy Workshop | October 28, 2020

1

Agenda



- Introduction
- · Planning Status Update
- Developing Mitigation Strategies NJOEM and FEMA
- Development of:
 - · Mitigation Strategy/Actions/Projects
 - Action Worksheets using the Mitigation Action Development Worksheets
- Next Steps
- Questions









Why Update?



- Every five years, FEMA requires a County's HMP to be updated.
- The mitigation plan update will:
 - Help the County prepare for and mitigate the effects of disasters
 - Continue to allow the County and participating communities to be eligible for pre- and post-disaster mitigation funding
 - Support CRS participation/rating of municipalities



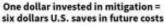


Why are you spending time on this? Because Mitigation Works!



- For every \$1 spent on hazard mitigation, the U.S. saves \$6 in future disaster costs!
- The County has been leveraging FEMA funding for years – receiving millions of dollars to help communities elevate homes, install flood control measures, and update this plan!









5



Schedule



✓ August 2020 Kick-Off Meetings
 ✓ August – September Data Collection
 ✓ September 21, 2020 Risk Assessment Presentation to Steering Committee
 ✓ September 23, 2020 Risk Assessment Presentation to Planning
 ✓ September – October Update Hazard Profiles – in Progress

✓ October 14, 2020 Annex Workshop – developing mitigation actions

□ October 28, 2020 Mitigation Strategy Workshop – TODAY!

□ November 20, 2020 Completed Action Worksheets returned to Tetra Tech
 □ November-January 2021 Plan Development

☐ December-January 2021 Annexes and Sign-Off Sheets Completed

☐ January 2021 Review Draft Plan

☐ February 2021 Plan Submitted to FEMA and NJOEM

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Annex Progress

- · Looking ahead...
 - · Confirm risk ranking assessment
 - Status updates on previous mitigation actions
 - Identify new mitigation actions for the 2020 Update
 - Complete Action Worksheets
 - Finalize annexes by December/January

	Demis (16-27/2000)
Cape May Cassily	Met with several departments, continuing to work on arrise
Avelor (II)	Apriles in progress
Stor May(C)	Arnes in progress - droff submitted following up
Cope May Feld (E)	Annes in progress
tennis Townstep (Two)	Annes In progress
over Township (Twp)	Armes in progress
Adda Townson (Fee)	Annex to progress – droff submitted tolowing up
on Missesof (C)	Annex in progress; need miligation development worksheet
Comm City (C)	Areas in progress - droft submitted following up:
olds CIV(C)	Armes in progress – draft submitted following up
tone (timber (8)	Armes in progress - droft submitted tolowing up
pper Township (Fee)	Annes in progress - draft submitted: tolkowing up
est Cope May (8)	Armes in progress
and Millianced (N)	Annes in progress; need instigration development worksheet
Mdwood (C)	Armes in progress
tress Cert(II)	Arries in progress; need militarion development worksheet
Socialis (II)	Arrise in progress, need nitigation development worksheet



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Public Outreach and Engagement

- · All meetings are open to the public
- All meeting presentations and agendas are up on the plan website (https://www.capemaycounty2020hmp.c om/)
- Social media and municipal websites
- Citizen Survey 195 responses (as of 10/27/2020) – https://www.surveymonkey.com/r/CMC20 20HMP



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Citizen Survey Responses



What do the responses look like?

- Received responses from nearly all municipalities, except for West Cape May and Woodbine.
 Majority of the responses were from those that live in Ocean City (34%) and Sea Isle City (34%).
- · Over 95% of respondents own their home.
- Nearly 50% have lived in the County for 20+ years.
- · Where do residents get their disaster-related news from?
 - . TV News, Internet, Social Media, and Mass Notification Systems
- Hazards most experienced: Coastal Storm, Flooding, Hurricanes/Tropical Storms, Severe Storms, and Severe Winter Storms
- 60% of respondents feel they are somewhat prepared to be without power/natural gas for up to five days





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Citizen Survey Responses





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Mitigation Strategy



2020/2021 HMP Hazards of Concern



- Climate Change and Sea Level Rise
- Coastal Erosion
- Disease Outbreak
- Drought
- Flood
- Hurricane/Tropical Storm

- Nor'Easter
- Severe Weather
- · Severe Winter Weather
- Tsunami
- Wildfire



12





Risk Reduction



- How do you reduce risk for a hazard?
 - Manipulate the Hazard
 - · Structural flood control
 - Reduce/Eliminate Exposure
 - Acquire floodprone properties
 - Reduce Vulnerability
 - Retrofit
 - Increase Capability
 - \$, preparation, technical assistance, planning enforcement





13

Using Your Mitigation Strategy to Reduce Risk



- What is a Milligation Strategy?
 - · A group of projects or actions to reduce the impacts of the hazards of concern on your community
 - · Plans and Regulations
 - Structure and Infrastructure Studies and Projects
 - · Natural Systems Protection Studies and Projects
 - Education and Awareness Programs
- · Terms to describe the Mitigation Strategy include:
 - Mitigation Action Plan or Action Plan
 - · Mitigation Projects or Initiatives or Actions

Your Mitigation Strategy table is included in your annex. Action Worksheets are needed for grant-eligible projects (e.g. elevations, acquisitions, generators, etc.)







Requirements for the Mitigation Strategy Update



- · Quality not quantity
- · 2016 projects
 - · If a project is not finished and still a priority, include in 2020 HMP
 - Remove general projects or make more specific
 - · Remove maintenance
 - · Remove angoing capabilities
- · Minimum of 2 quality projects (a generator can be a 3rd project)
- High-ranked hazards need a mitigation action
- · Repetitive and Severe Repetitive Loss Properties need an action with specifics (street or neighborhood names, not specific addresses)
- · Action Worksheets are needed for any projects that can be funded by FEMA HMA grants.



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Connecting to the Mitigation Strategy

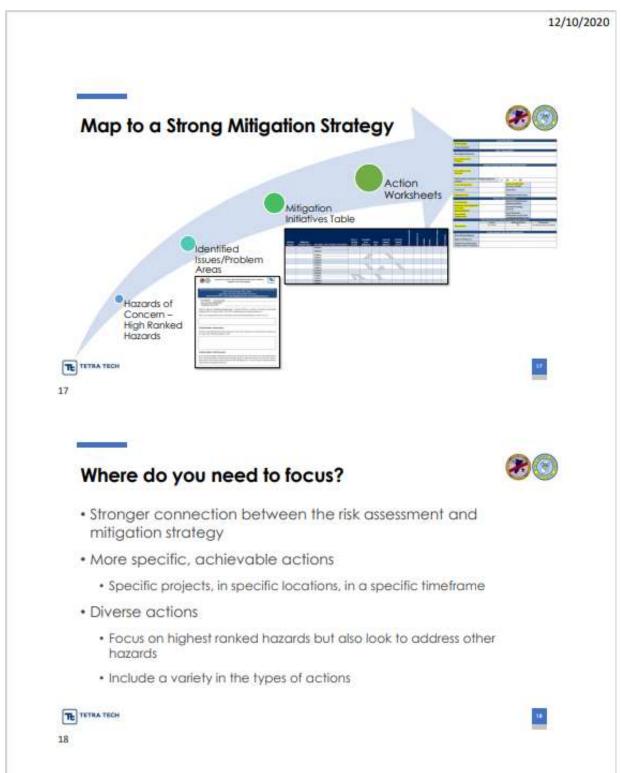


- Need a clear connection between vulnerability and proposed mitigation actions.
- Capability assessment provides insight into challenges and opportunities for the mitigation strategy.
- Provides the factual basis for activities proposed in the mitigation strategy.







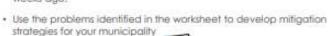




Use Your Mitigation Action Development Worksheet



 Mitigation Action Development worksheets were sent out a couple weeks ago.









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How do you fill in the Action Worksheets?



The entire worksheets needs to be filled in; however, Tetra Tech will assist with this. We ask that each municipality fill in (at least) the highlighted cells.

- · Description of the Problem
 - What is the problem?
 - What is the risk?
 - Where is the problem accurring?
 - . Who is the problem impacting?
 - · Have there been past damages?
 - · How frequently does the problem occur?





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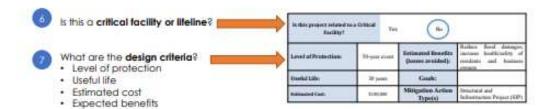






Filling in the Action Worksheet





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Filling in the Action Worksheet



- Is this a high or medium priority project?
- When will the project will be complete?
- What is the project duration?
- How will it be funded?

 What department/agency will be
- responsible?
- Any plans, codes, or ordinances will support this project?

Pinclin Implementation					
Prioritization.	шуь	Desired Timelrane for Implementation	- 10		
Estimated Time Required for Project Implementation	0	Petential Familing Sources	Municipal Balgot (IAM: P, BRS:		
Responsible Organisation	Tonn Floodplain Administrator, Town Engineer	Local Warning Weckenions to be Stord in Implementation if any.	Floriant Militagemen Plan		

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Filling in the Action Worksheet





What are the alternative projects considered?

- No action
- · Alternative #1
- Alternative #2





Congratulations! You made it to the finish line!!
You have completed your Action Worksheet!

×

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25



Update the Mitigation Strategy

- Action Type:
- Initiative Toble
 - Actions
 - Projects



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Update the Mitigation Strategy



- Review the Goals and Objectives of the HMP
- Start with problems (use the Mitigation Development Worksheet!)
 - Turn challenges/obstacles/gaps into mitigation actions
 - Examine historic impacts
 - Review the risk and capability assessment results
 - RL/SRL properties
 - · Stormwater/urban flooding areas
 - Critical facilities and lifelines located in a hazard area (if feasible)
 - Additional areas of vulnerability
 - Previous FEMA HMA submitted projects – awarded/unawarded

- Identify new Mitigation Actions/Projects/Strategies
- Modify 'carry-over' projects from the 2016 HMP
 - More specific or to address different aspects of the original problem



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Mitigation Action Types



Plans and regulations include government authorities, policies, or codes that encourage risk reduction, such as building codes and state planning regulations. This may also include planning studies.



Structure and infrastructure projects involve modifying existing structures and infrastructure or constructing new structures to reduce the impact of hazards.



Natural systems protection projects minimize losses while also preserving or restoring the function of natural systems.



Education and awareness programs include long-term, sustained programs to inform and educate citizens and stakeholders about hazards and mitigation options. This category could also include training.











Range of Mitigation Actions



 For CRS credit, flood-related actions should cover a range of CRS categories:



 Primary types of miligation actions to reduce long-term vulnerabilities include;



21

29

Proposed Action Table



- Each municipality will need to complete the Proposed Hazard Miligation Initiatives table in their annex (Table 9.X-16)
- Each column needs to be filled in. If you are unsure, Tetra Tech will assist you with completing.
- Action Worksheets will need to be completed for ANY project that can be funded by FEMA HMA grants.

in Rock or	Militarian Addalan	Description of the Problem and Limites	Name or Garden		Good
ACMTS Accordants Miles	Aspertium inst Asperty Outwach	Products Trans are 100 reportive bus programms occased in the Abruagh, According to WF claims records, these properties have experienced extensive	Easting	Rood Sween Intern, Humanien/ Ropical Storm	A

			of the propertie				
lend and Suspen Agentine	Patrolia Teaching Teaching	1	I.	1	1	100	100
Municipat Roadplain Administratio Paparety Owner	Marriagh Madget (for outer size); ARAM PARK or VINELP (for orthogotion chemister)	increase realizace of structure crist Acrospin decrease flood stamage	distanta cubrach natigation costs view dispensing on project	the year for mitroich, it years for entiquena members	Hat	EAP, SIF	m.n

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Next Steps



- Action Worksheets
 - Action Worksheets will need to be completed for ANY project that can be funded by FEMA HMA grants.
 - Not every action requires an Action Worksheet but most of the information needed for the Action Worksheet is needed for all identified actions
 - Please submit at least one filled in action worksheet to Tetra Tech by COB October
 29th
- Work with your assigned Tetra Tech Planner (Chris Huch or Brian Kempf) to complete your annex and mitigation actions



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Figure C-21. Steering Committee Meeting #4 Agenda



CAPE MAY COUNTY HAZARD MITIGATION PLAN UPDATE
Plan Update and Maintenance Meeting – AGENDA
December 29, 2020 – 1:00 PM



Virtual Meeting

Join by Computer: https://bit.ly/2WR6HIr

Or

Dial-in Phone Number: 1-646-751-8477 (Toll) Conference ID: 103 073 09#

- 1. Welcome
- 2. Project Schedule
 - Plan Status
 - Upcoming meetings
- 3. Plan Updates
 - . Plan maintenance how will we maintain the 2021 HMP
 - BAToolsM what is it and how will it be used
 - Countywide actions summary and overview
- 4. Next Steps
 - Tetra Tech will send countywide actions to the Steering Committee
 - Draft sections of plan will be posted as they become available
 - Next Steering Committee meeting January 6th at 10 am draft plan presentation





Figure C-22. Steering Committee Meeting #4 Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting







Cape May County Hazard Mitigation Plan Update Minutes of Meeting



	 No actions for prevention (e.g. codes and ordinance); however, this is usually done at the local level and many of the municipalities have actions that fall in the prevention category. 	
5.	Next Steps/Questions - Question from R. Cooper about wildfire with regard to community capacity building; Tetra Tech will review the actions to determine if the wildfire-related actions fall into the community capacity category.	Steering Committee #6 Meeting- January 6, 2021

	pose of Meeting: Plan Maintenance	
Loca	ation of Meeting: Microsoft Teams	
Date/	Time of Meeting: December 29, 2020 – 1:00-1:30 pm	
Attendees:	Leslie Gimeno, Cape May County Planning Jason Downie, Cape May County GiS Josh Palombo, Cape May County MUA Meghan Wren, NJOPA Joseph Lomax, Lomax Consulting Group Andrew Lewis, Journalist Edward Mahaney, NJ Coastal Coalition	a Tech Tetra Tech Tetra Tech rra Tech
	ummary: The Tetra Tech team reviewed Plan Maintenance procedure	es and proposed County actions
Item No.	Description	Action By:
1.	Welcome Marty gave opening remarks, thanks, and holiday wishes	-
2.	Project Schedule Draft Plan Presentation: January 6, 2021 Next public meeting: January 11 th Draft plan public review period- January 18 th -February 18 th Submitted to NJOEM and FEMA by end of February	Tetra Tech to send out meeting invitation for the January 6 th meetin
3.	Plan Maintenance - Annual status of mitigation projects - Use of Tetra Tech BAT tool - Plan needs to be updated every five years - At month 12 of each year, CMC OEM distributes annual properties. - BATool®— this program will be used the first year of annual reporting. It will contain all identified mitigation actions ide 2021 plan. Every jurisdiction can go in and review action star progress and conduct evaluation, integrate with existing/fut mitigation programs - The County can access all mitigation actions. - The County can send out reminder emails through remind municipalities to provide status updates. - Municipalities can record new actions	brogress status; BATool™ status; BATool™ training for the tus to monitor ure hazard sure hazard status to monitor ure hazard sure hazard
4.	County Actions Review 46 total actions: including 5 non-road/bridge projects (saltw feasibility, seawall for MUA facility in Ocean City, public heal building, county radio acquisitions, communication tower re planning projects (Capital Improvement Plan, neighborhood planning, design standards) and 38 structural/planning projecounty roads/bridges o Tetra Tech will send out the table of actions for the Committee to review and comment. Comments du The actions identified cover all hazards of concern identified HMP.	Ith capacity ttrofits), 3 dadaptation ects pertaining to e Steering ue by January 4 th . Ith capacity Tetra Tech to send out county actions, Steering Committee to review County actions by 1/4/2021

Page 2 of 2

There is more diversity in types of action for high ranked hazards.



Figure C-23. Steering Committee Meeting #4 Presentation

12/29/2020

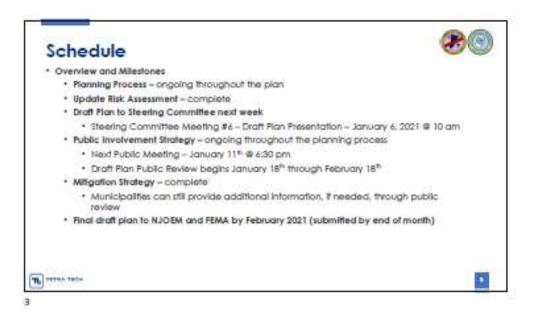


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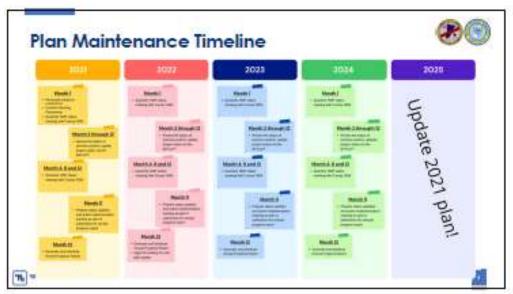








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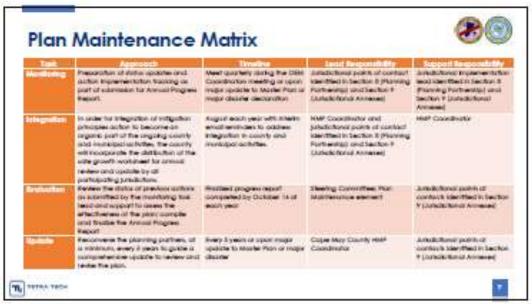
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Hazard Mitigation Plan Update - Cape May County, New Jersey



May 2021



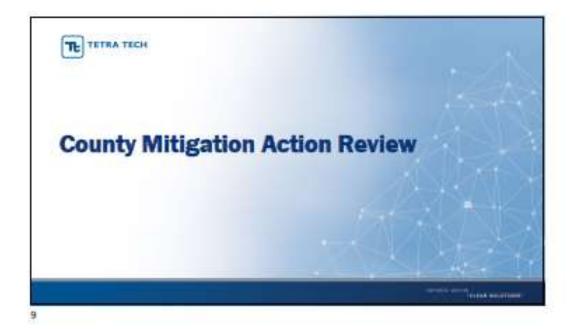


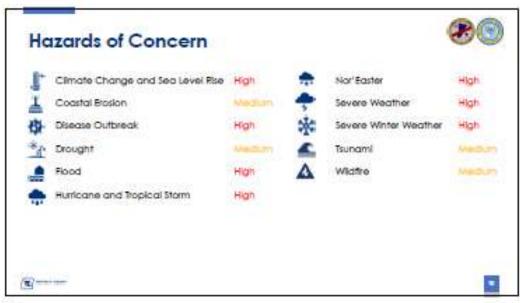
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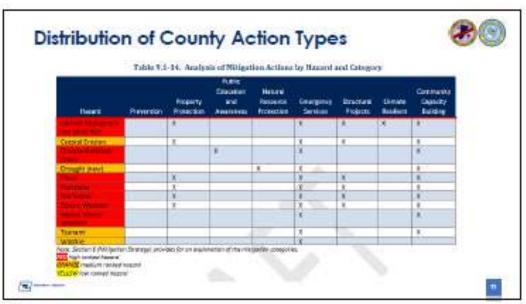
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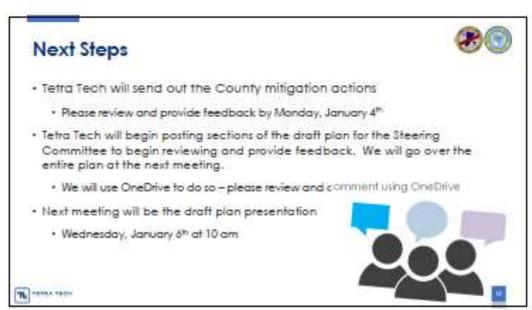








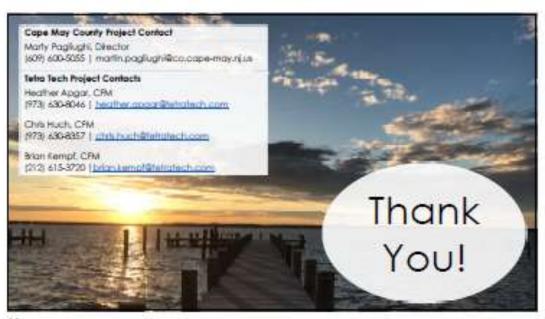
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Figure C-24. Draft Plan Presentation Agenda



CAPE MAY COUNTY HAZARD MITIGATION PLAN UPDATE Draft Plan Review Presentation – AGENDA January 6, 2021 – 10:00 am



Virtual Meeting

Join by Computer: https://bit.ly/34V2LLf

Or

Dial-in Phone Number: 1- 646-751-8477 (Toll) Conference ID: 298 231 378#

- 1. Welcome and Opening Remarks
- 2. Draft Plan Review
 - . What is new for the 2021 Update
 - Section-by-section content overview
 - i. Sections 1 through 9, appendices
 - Finalizing the plan
 - · Information gaps to address
- 3. Next Steps
 - Upcoming meeting public presentation of plan January 11th at 6:30 pm
- 4. Questions



Figure C-25. Draft Plan Presentation Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting





Cape May County Hazard Mitigation Plan Update Minutes of Meeting



	Entire plan posted for public review by Monday, January 25 th	
3.	Questions	
	 Vicki Clark- question w/r/t public meeting on January 11th- confirmed. Monday, January 11th at 6:30 	
	 Anita van Heeswyk, Deputy Mayor of Cape May Point thanked the team 	

Location of Meeting: Microsoft Teams Date/Time of Meeting: January 6, 2021; 10:00AM-10:45AM		
Attendees:	Marty Pagliughi, Cape May County OEM John Edwards, Cape May County OEM Kevin Thomas, Cape May County Health Department Vicki Clark, Cape May County Chamber of Commerce Stewart Farrell, Stockton CRC Thomas Heist, Thomas Heist Insurance Agency Joseph Lomax, Lomax Consulting Group Edward Mahaney, NJ Coastal Coalition Joe Martucci, Press of Atlantic City Christopher Testa, NJOEM Howard Wolfe, NJOEM Thomas Thornton, Mott Macdonald Vanessa Dornisch, JCNERR Chris Huch, Tetra Tech Heather Apgar, Tetra Tech	Avalon- Ed Dean Cape May- Lou Belasco Cape May Point- Anita van Heeswyk Lower- Jennifer Dowe Middle- Sean McDevitt Ocean City- Frank Donato Sea Isle City- Michael Jargowsky Stone Harbor-, Kim Stevenson, Ray Poudrier Upper- Paul Dietrich West Wildwood- Carl O'Hala Wildwood- Daniel Dunn, Steve Booy Wildwood Crest- Ron Harwood (609) 494-4249 (Unknown Number) DeBlasio and Associates- Matthew Aromando

tem No.	Description	Action By:
1.	Plan Updates	500
	 Chris Huch reviewed the separate plan sections 	
	 Plan featured an updated critical facility inventory 	
	New hazards of concern	
	 Climate change impacts/adaptative capacity discussed 	
	 Enhanced oversight of planning process 	
	 Jurisdictional annex- updated mitigation actions, new action worksheets, annex sign of sheets to document participation 	
	Plan Maintenance	
	 The BATool was reviewed for communities to indicate progress about mitigation actions 	
	The County has access to all actions	
	 Communities can add or edit existing actions 	
	 Plan maintenance timeline: intend to meet quarterly to maximize CRS points 	
	Volume II	
	 Annexes were reviewed and updated 	
	 NFIP data remains a focus 	
	 Municipalities adjusted rankings 	
	Appendices	
	 Various appendices provide information that was not included in the first two volumes (e.g. participation documentation, CRS supplementary data) 	
2.	Review Procedures	Review sections o
	 Plan will be available for review prior to the public review period Plan will be uploaded to OneDrive where comments/suggestions can be made 	or before Monday January 18th

Page 1 of 2





Figure C-26. Draft Plan Presentation

1/6/2021



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What's New in the 2021 Update?

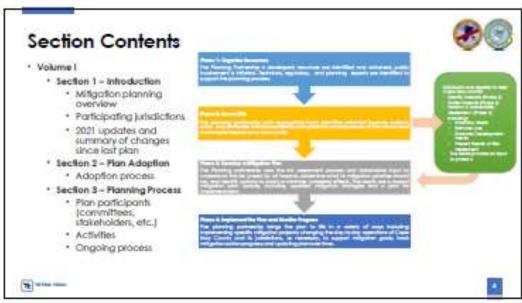


- · Critical facilities updated inventory and included community lifelines
- Hazards of concern incorporated new hazards, concise hazard profiles, included recent events
- Climate change impacts and adaptive capacity to reduce vulnerability used in hazard ranking
- Jurisdictional annexes each municipality and the County have their own 'chapter'
 - · Enhanced capability assessment including integration
 - · Fewer but more detailed mitigation actions
 - Mitigation action worksheets one for every FEMA HMA grant eligible project
 - · Annex sign-off sheets to document participation by each municipality



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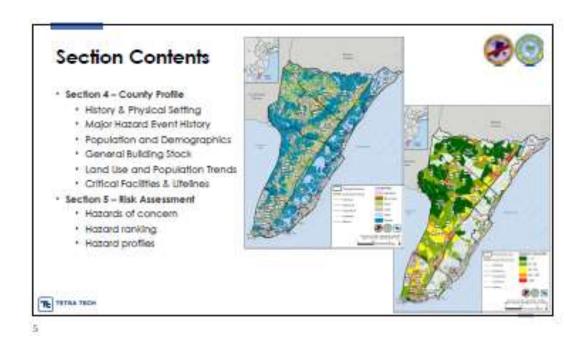
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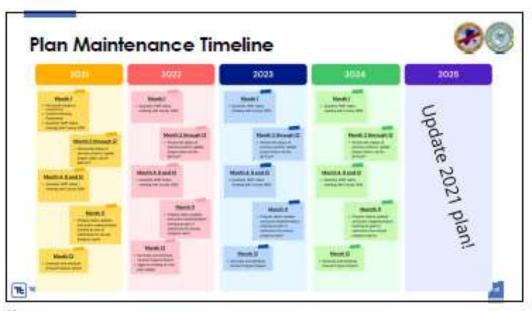
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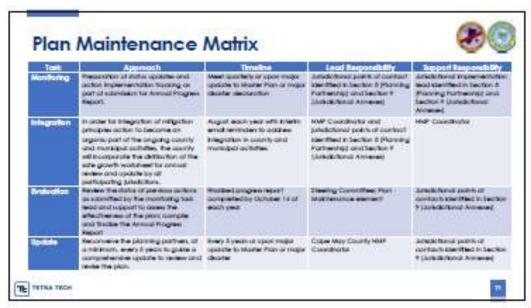




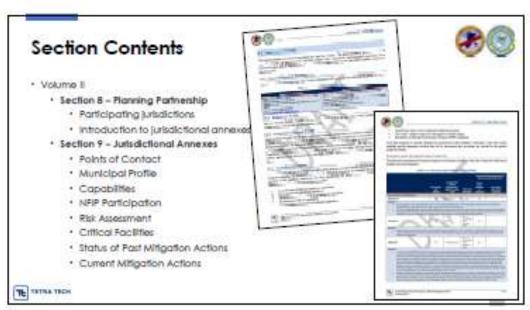


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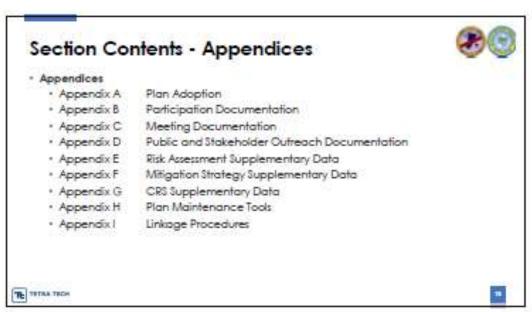




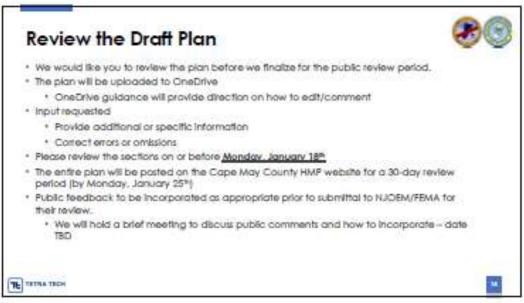
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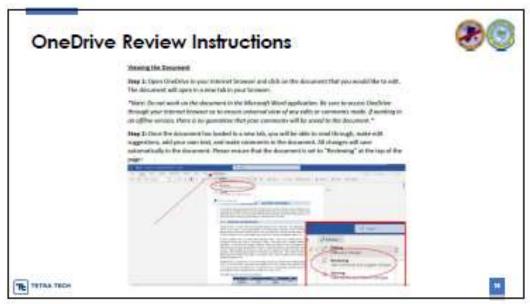




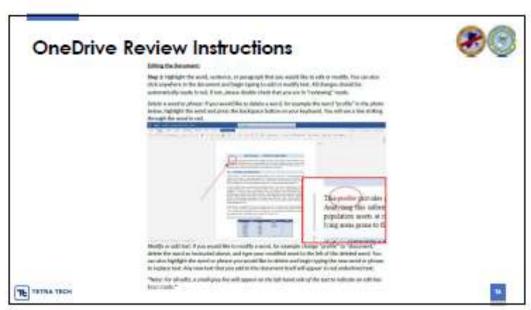
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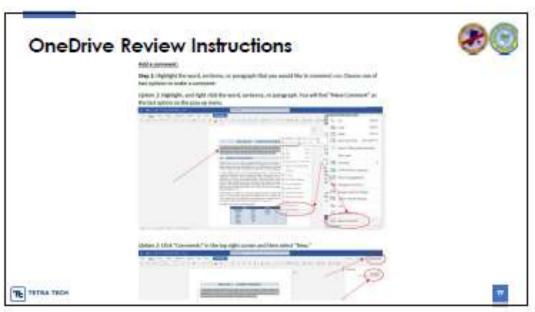


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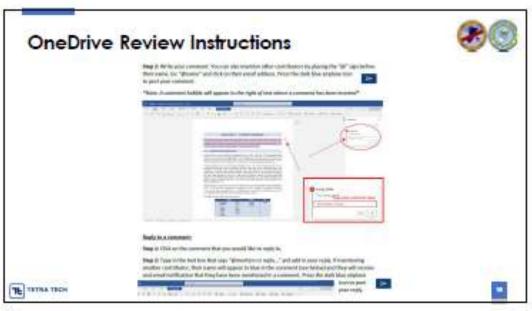








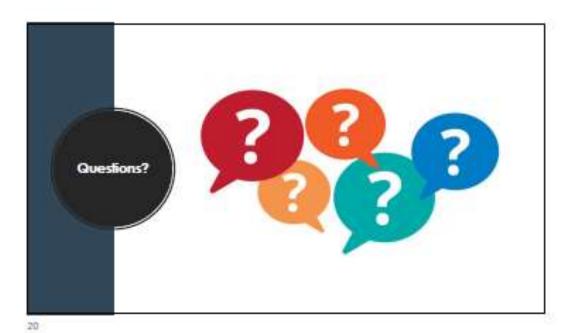
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Next Steps • Finalize Jurisdictional Annexes – by January 15th • Steering Committee Plan Review – Now through January 18th • Update Plan Based on Steering Committee Feedback • Draft Posted for Public Review and Comment – 30 Days • Submit to NJOEM and FEMA – by end of January 2020 • Estimated 45-day review period • BAToolSM Webinar to Review Plan Maintenance • Plan Adoption by County and Participating Municipalities • Leverage the plan to create mitigation principles in Cape May County!

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Hazard Mitigation Plan Update - Cape May County, New Jersey

May 2021







Figure C-27. Draft Plan Public Presentation Meeting Minutes



Cape May County Hazard Mitigation Plan Update Minutes of Meeting





Cape May County Hazard Mitigation Plan Update Minutes of Meeting



Public Webinar	Next Steps
Microsoft Teams January 11, 2011 (6:30PM-7:30PM)	- Municipalities finalizing jurisdictional annexes by January 15 th - Planning Partnership reviewing plan through January 18 th - Draft Posted for Public Review and Comment for 30 days beginning January 25 th
Cape May County OEM 1 Tech (609) 425-1163 (etra Tech (609) 884-0806	- Capemaycounty/2020hmp.com - Submit to NIOEM and FEMA by end of February 2020 (estimated 45-day review period) - Plan adoption by County/municipalities estimated April/May 2021
tra Tech (609) 367-2420 (609) 465-4877 (609) 465-4877 (609) 388-4497 (609) 388-44	Questions - Q: Please clarify the Planning Partnership. A: County and stakeholders who make decisions about the plan (includes municipal representatives) - Q: What is the difference between Statewide and County HMP? A: Statewide HMP accounts for State Actions/Concerns. County HMP deals with the County's purview - Documents available for review: https://www.capemaycounty2020hmp.com/.

Date/	Time of Meeting: January 11, 2011 (6:30PM	-7:30PM)	
Attendees:	Marty Pagliughi, Cape May County OEM		
	Chris Huch, Tetra Tech	(609) 425-1163	
	Heather Apgar, Tetra Tech	(609) 884-0806	
	Brian Kempf, Tetra Tech	(609) 367-2420	
		(609) 465-4877	
	William Connor, Avalon	(609) 388-4497	
	Vincent Conti, Middle	Unknown-Lyn	
	Patricia Hendricks, Cape May	Unknown-Guest	
	Nancy Hudanich		
	David Heller, Vineland		
	Mark & Lee Kampf, Ocean City		
	Joe Martucci, Press of Atlantic City		
	NBC 10		
	Loretta Pregartner		
	Annemarie Ricco		
	Joe Segrest, West Wildwood		
	Peter Sollimo		
	Thomas Winnick, Stone Harbor		
	Kathleen C. Wyatt, Cape May		
	Jennifer Zglenski, Wildwood Crest		

Item No.	Description	Action By:
1.	Introduction - M. Pagliughi thanked attendees and noted the plan has been expanded since 2016	200 00000000000000000000000000000000000
2.	Draft Plan Review C. Huch introduced the hazard mitigation planning cycle and the purpose of preparing the HMP New focus on critical facilities and lifelines- facilities that remain open before, during, and after an event Added two new hazards (disease outbreak and drought) Hazard profiles became more concise Climate change impacts and adaptive capacity to reduce vulnerability used in hazard ranking Jurisdictional annexes- enhanced capability assessment, fewer but more detailed mitigation actions, mitigation action worksheets for FEMA HMA grant-eligible projects Annex sign off sheets to document participation	
3.	Hazards and Ranking C. Huch reviewed the hazard ranking Climate Change/Sea Level Rise, Disease Outbreak, Flood, Hurricane/Tropical Storm, Nor'easter, Severe Weather, Severe Winter Weather- High Coastal Erosion, drought, tsunami, wildfire- medium	

Page 1 of 2







Figure C-28. Draft Plan Public Presentation

1/21/2021

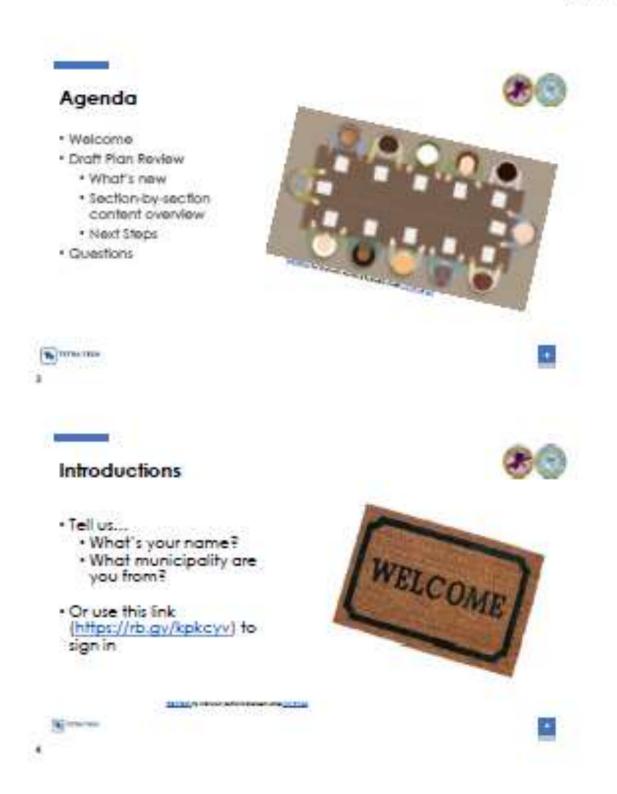




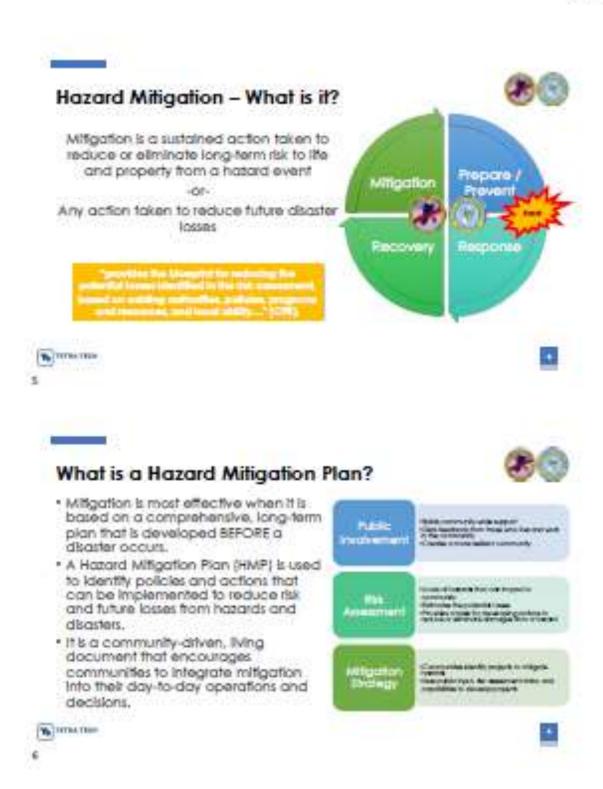


May 2021











Why Prepare an HMP? An HMP provides a strategy to reduce or eliminate damages from disaster and break the cycle of disasters and damages. Reduces the risk to people and property and reduces the cost of disaster recovery. identifies ways communities can become more resilient and discister-resistant. Communities remain eligible for FEMA pre-disaster mitigation funding. To THE PERSON

What's New in the 2021 Update?



- Critical facilities updated inventory and included community lifelines
- Hazards of concern incorporated new hazards, concise hazard profiles, included recent events, added 2 new hazards – disease outbreak and drought
- Climate change impacts and adaptive capacity to reduce vulnerability used in hazard ranking
- Jurisdictional annexes each municipality and the County have their own 'chapter'
 - Enhanced capability assessment including integration.
 - + Fewer but more detailed miligation actions.
 - Mitigation action worksheets one for every FEMA HMA grant eligible project
 - Annex sign-off sheets to document participation by each municipality













THE PERSON NAMED IN





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Section Contents

- · Section 7 Plan Maintenance
 - HMP Coordinator
 - Ongoing Planning Partnership meet quarterly to discuss HMP
 - Monitoring
 - Continuous evaluation and progress reports
 - FEMA action worksheets and BATool™
 - Updating
 - Integrating the HMP with existing and future programs
 - · Continued public involvement





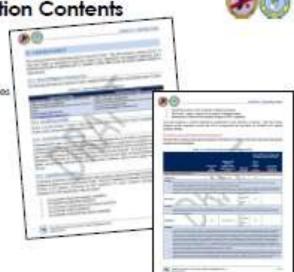
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Draft Plan Review - Section Contents

- Volume II
 - Section 8 Planning Partnership
 - Participating jurisdictions
 - · Introduction to jurisdictional annexes
 - Section 9 Jurisdictional Annexes
 - . Point of Contact
 - Municipal Profile
 - Capabilities
 - NFIP Participation
 - Risk Assessment
 - Critical Facilities
 - . Status of Past Mitigation Actions
 - · Current Mitigation Actions
 - Future Needs







Section Contents - Appendices



- Appendices
 - Appendix A Plan Adoption
 - Appendix 8 Participation Documentation
 - Appendix C Meeting Documentation
 - Appendix D Public and Stakeholder Outreach Documentation
 - Appendix E Risk Assessment Supplementary Data
 - Appendix F Mitigation Strategy Supplementary Data
 - Appendix G CRS Supplementary Data
 - Appendix H Plan Maintenance Tools
 Appendix I Linkage Procedures
 - Appendix J Summary of Plan Reviews



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Next Steps



- Municipalities are finalizing their Jurisdictional Annexes by January 15th
- Planning Partnership is reviewing the plan now through January 18th
- Draft Posted for Public Review and Comment for 30 Days starts January 25th (be sure to check the HMP website for the plant)
 - https://www.capemaycounty2020hmp.com/
- Submit to NJOEM and FEMA by end of February 2020
 - Estimated 45-day review period
- Plan Adoption by County and Participating Municipalities estimated April/May 2021











