



Putnam Hazard Mitigation Plan Update 2020

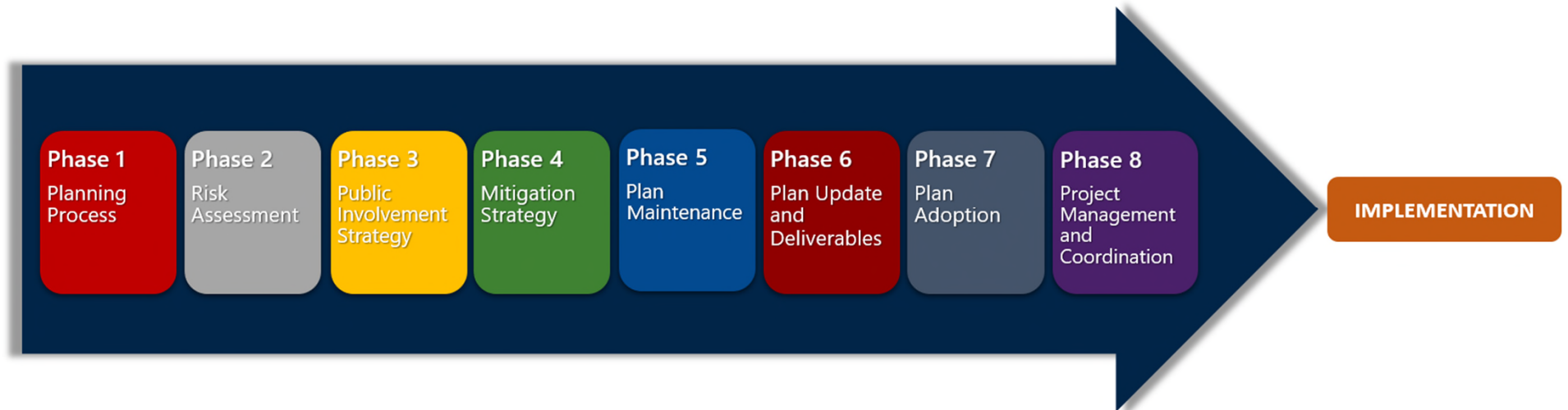
Steering Committee #2 | June 24, 2020

Agenda

- Welcome
- Project Status
- Hazards of Concern
- Confirm Critical Facility Types and Lifelines
- Mission Statement, Goals, and Objectives
- Strengths, Weaknesses, Obstacles and Opportunities Exercise (SWOO)
- Next Steps



Project Status





What's the Status?

- **Data Collection - In Progress**

- ✓ Plan Collection - Complete - Feedback Requested
- ✓ General Building Stock – County Input Complete-RS Means Update in Progress
- Critical Facility Inventory - In Progress

- **Risk Assessment - In Progress**

- Hazard Profile Drafts – Initiated

- **Public Involvement - In Progress, Must Document**

- **Mitigation Strategy**

- Confirm Goals - In Progress
- SWOO - In Progress
- Municipal Annex Updates - In Progress
- Identify Problem Areas - In Progress
- Develop Mitigation Strategy - Pending

Municipal Participation Status

- To date, we have received Letters of Intent to Participate (LOIP) from five out of the nine municipalities.
- Annex Worksheets – slow but steady response from the communities, most likely attributed to COVID-19

	LOIP	Annex Development Status
Brewster		Meeting held, development underway
Carmel	X	Meeting held, development underway
Cold Spring		No contact
Kent	X	In talks to arrange meeting
Nelsonville		Meeting scheduled
Patterson	X	Community working on annex
Philipstown	X	Contact, no progress
Putnam Valley	X	Arranging to meet
Southeast		In talks to arrange meeting, muni working on

Stakeholder and Public Outreach Strategy

- Website
 - Tetra Tech to initiate a project website to update to be linked to the OEM website
- 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
- Surveys (citizen and stakeholder) and information flyer created
 - Next step – distribute and advertise survey links and flyers
 - Links to be distributed to stakeholders
 - Municipalities to post an HMP project link and flyer on their website; press release sent to newspapers
- Outreach: Present key info on HMP process at local meetings



Hazards of Concern

- 2020 Hazards of Concern will include:
 - Disease Outbreak (not included in NYS HMP)
 - Drought
 - Earthquake
 - Extreme Temperatures
 - Flood (riverine/flash flood, ice jam, and dam failure)
 - Harmful Algal Bloom (HAB) (not included in NYS HMP)
 - Severe Storm (hail, wind, lightning, thunderstorms, tornadoes, hurricanes, and tropical storms)
 - Severe Winter Storm (heavy snow, blizzards, sleet, freezing rain, ice storms, extreme cold, and Nor'Easters)
 - Wildfire (NYS HMP notes Putnam as a county most susceptible to wildfire)

Critical Facilities in Putnam County

- What types of facilities are considered critical?
 - Aviation – airports, landing zones
 - Bank
 - Church
 - Communication – broadcast facility, cell tower, radio system
 - Dams (High Hazard Only?)
 - Daycare
 - DPW – DPW, highway garage
 - Electric/Power
 - EOC
 - Fire
 - Gas Station
 - Government – government, municipal hall
 - Grocery
 - Hazmat
 - Hospital/Medical – emergency service, hospital, medical
 - Library
 - Park/Recreation – park, recreation
 - Police
 - Post Office
 - School/Education – school, university
 - Senior Facility
 - Transportation – boat launch, rail bridge, highway bridge
 - Wastewater – wastewater, wastewater treatment
 - Well



Critical Facilities in Putnam County

Facility Type	Facility Count	Facility Type	Facility Count
Agriculture	1	Natural Gas	7
Boat	3	Police Station	9
Bus	1	Potable Water	15
Commercial	6	Rail Bridge	5
Communication	23	Rail Facility	5
Dam	108	Recreation	14
Electric	11	Religion	2
Emergency Center	1	Residential	5
Entertainment	2	School	33
Fire Station	22	Senior	5
Government	47	Transportation	1
Highway Bridge	15	User Defined Facilities	12
Historic	1	Vacant	4
Institutional	5	Wastewater	40
Medical	7	Water Resources	53

Lifelines in Putnam County

- What are lifelines?
 - A lifeline enables the continuous operation of critical government and business functions and is essential to human health and safety or economic security.
 - Lifelines are the most fundamental services in the community that, when stabilized, enable all other aspects of society to function.
 - When disrupted, decisive intervention (e.g., rapid re-establishment or employment of contingency response solutions) is required to stabilize the incident.
- Tetra Tech conducted a preliminary review of the critical facilities and assigned the lifeline categories to each
- The County and each municipality need to identify which of their facilities are considered lifelines.



Mission Statement

A mission statement or guiding principle describes the overall duty and purpose of the planning process and serves to identify the principle message of the plan. It focuses or constrains the range of goals and objectives identified. This is not a goal because it does not describe outcomes.

A mission statement should be broad in scope and provide a direction for the plan and provide an overarching framework for the goals.

Shall a mission statement be included in the 2020 update? What is important-protect life, protect the environment, support a vibrant economy, reduce impacts of natural hazards, increase resilience?

Example :

The mission of the Onondaga County Multi-Jurisdictional Hazard Mitigation Plan is to protect the health, safety, property, environment, and economy of the communities within Onondaga County and to increase resilience by partnering to identify and reduce our future vulnerability to natural hazards in a proactive and efficient manner.

Mission, Goals and Objectives

- Review the Goals from the 2015 plan – update as appropriate
- Do we want to incorporate resiliency into the Mission Statement, Goals, and Objectives
- How do we want to define resiliency?
 - *The ability to prepare for, adapt to, resist, re-build, and thrive natural disaster events?*
 - *The ability to mitigate and re-bounce from natural disaster events?*



Compatibility with Other Planning Goals

Putnam County goals should be compatible with the needs and goals expressed in other available community planning documents as well as the NYS HMP. These goals and objectives should be reasonably in-line with goals established in other related planning documents and mechanisms including:

- 2019 New York State Hazard Mitigation Plan
- 2015 Putnam County Hazard Mitigation Plan
- Other local comprehensive and emergency management plans

2019 New York State HMP

- **Goal 1:** Promote a comprehensive state hazard mitigation policy framework for effective mitigation programs that includes **coordination among federal, state, and local organizations for planning and programs**
- **Goal 2: Protect existing property** including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.
- **Goal 3: Increase awareness of hazard risk and mitigation capabilities** among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.
- **Goal 4:** Encourage the development and implementation of **long-term, cost effective, and resilient mitigation projects to preserve or restore the functions of natural systems.**
- **Goal 5: Build stronger by promoting mitigation actions** that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future

Revisit the 2015 Plan Goals and Update if Needed

- Do the goals and objectives address current and expected conditions?
- Do the goals and objectives reflect current natural hazard risk?
- Did the goals and objectives lead to mitigation projects and/or changes in policy that helped jurisdictions to reduce vulnerability?
- Do the goals and objectives support changes in mitigation priorities?
- Do the goals and objectives reflect updated State goals?
- Do the goals incorporate a focus on resiliency?

What are the basic goals?

- Protect Life?
- Protect Property?
- Protect the Environment?
- Build Partnerships?
- Increase Preparedness?
- Encourage Implementation of Long-Term Mitigation Projects?
- Protect Lifelines?

Review Goals

According to CFR 201.6(c)(3)(i): "The hazard mitigation strategy shall include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards."

Goal #	Goal Statement	Modify, add, or Remove Goal
G-1	Identify and implement mitigation actions and initiatives that address life-safety issues.	
G-2	Protect property, including public and private property, critical facilities and infrastructure. (Modified from NYS 2014 HMP – Goal 2)	
G-3	Increase education and awareness, and promote relationships with stakeholders, citizens, elected officials, and property owners to develop opportunities for mitigation of natural hazards. (Modified from NYS 2014 HMP – Goal 3)	
G-4	Encourage the development and implementation of long-term, cost-effective, and resilient mitigation projects to preserve or restore the functions of natural systems. (NYS 2014 HMP – Goal 4)	
G-5	Enhance or develop programs to build regional, county and local mitigation and related emergency management capabilities.	
G-6	Support comprehensive county and local mitigation through the integration of hazard mitigation planning into related county and local plans and programs.	
Additional Goals?		

Objectives

- **Objectives** are short-term aims which, when combined, form a strategy or course of action to meet a goal. Unlike goals, objectives are specific and *measurable-they answer the question, “How?”*.
- *Objectives were not included during the 2015 planning process. We should determine whether or not objectives should be included in the 2020 update.*

Examples of objectives include:

- Integrate the recommendations of this plan into existing regional and local programs.
- Implement mitigation actions that enhance the capabilities of the County and communities to better profile and assess exposure of hazards.

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

EXERCISE – Strengths, Weaknesses, Obstacles and Opportunities

Thinking about the 2015 hazards of concern and any new hazards for this update...what are some strengths, weaknesses, obstacles and opportunities the County has for each? Complete the online form.

Here are some examples to help brainstorm:

Hazard: Flood

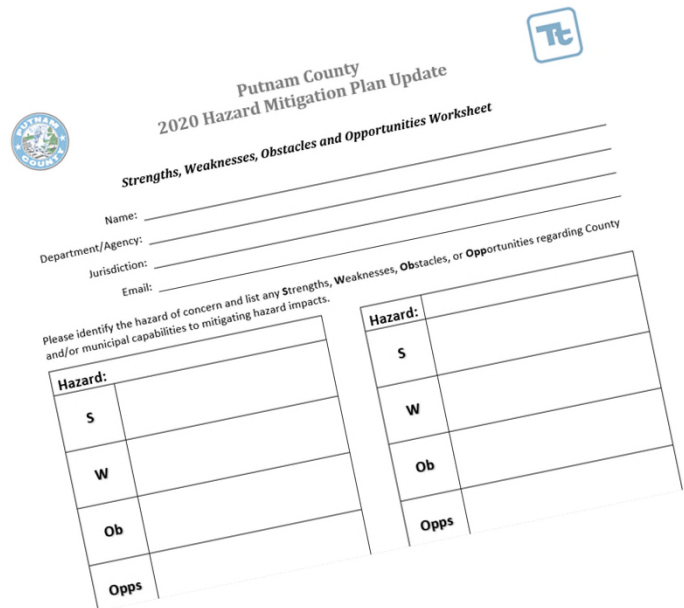
S	Minimal exposure to flood risk
W	Silt and debris buildup in streams can lead to localized flooding
Ob	Funding for culvert and catch basin maintenance
Opps	Installing stream gages

Hazard: Severe Storms

S	Tree trimming programs are in place
W	Aging infrastructure; lack of underground utilities
Ob	Cost to retrofit existing utility infrastructure
Opps	Underground utilities; enhance public outreach program

Hazard: Severe Winter Storm

S	Municipalities have the resources and experience to deal with winter weather
W	Aging equipment
Ob	Funding; limited staff for prolonged events
Opps	Shared services



Putnam County
2020 Hazard Mitigation Plan Update
Strengths, Weaknesses, Obstacles and Opportunities Worksheet

Name: _____
Department/Agency: _____
Jurisdiction: _____
Email: _____

Please identify the hazard of concern and list any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Hazard:	S	W	Ob	Opps

2020 SWOO Discussion/Example

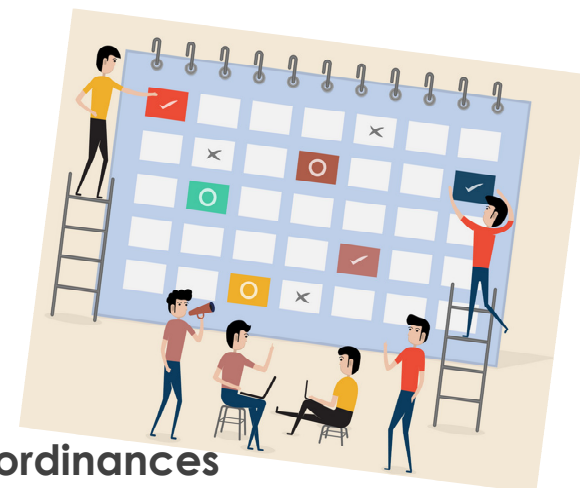
Flood	
Strengths	Weaknesses
<p>What do the County/Communities do well in terms of:</p> <ul style="list-style-type: none">➤ Plans and Regulations<ul style="list-style-type: none">➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans➤ Structure and Infrastructure Projects➤ Natural Systems Protection➤ Education and Awareness Programs?➤ Preparedness➤ Others?	<p>What can the County/Communities do better or what are identified gaps in terms of:</p> <ul style="list-style-type: none">➤ Plans and Regulations<ul style="list-style-type: none">➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans➤ Structure and Infrastructure Projects➤ Natural Systems Protection➤ Education and Awareness Programs?➤ Preparedness➤ Others?

2020 SWOO Discussion/Example

Flood	
Obstacles	Opportunities
<p>What is preventing the County/Communities to implement:</p> <ul style="list-style-type: none">➤ Plans and Regulations<ul style="list-style-type: none">➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans➤ Structure and Infrastructure Projects➤ Natural Systems Protection➤ Education and Awareness Programs?➤ Preparedness➤ Others?	<p>What can the County/Communities implement terms of:</p> <ul style="list-style-type: none">➤ Plans and Regulations<ul style="list-style-type: none">➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans➤ Structure and Infrastructure Projects➤ Natural Systems Protection➤ Education and Awareness Programs?➤ Preparedness➤ Others?

Schedule

- Overview and Milestones
 - Planning Process
 - Steering Committee Meeting #2 – TODAY!
 - Planning Partnership Meeting #2 – July 29th
 - Currently working on reviewing plans, studies, and codes/ordinances
 - Update Risk Assessment
 - Data collection is underway; Confirming building and critical facility inventory
 - Beginning vulnerability assessment for each
 - Public Involvement Strategy – ongoing throughout the planning process
 - Mitigation Strategy
 - Began working with the municipalities after the Planning Partnership kick-off
 - Mitigation Strategy Workshop with FEMA and NYS DHSES – August 2020
 - Draft Plan to Steering Committee by October
 - Final draft plan to NYS DHSES and FEMA by December 2020

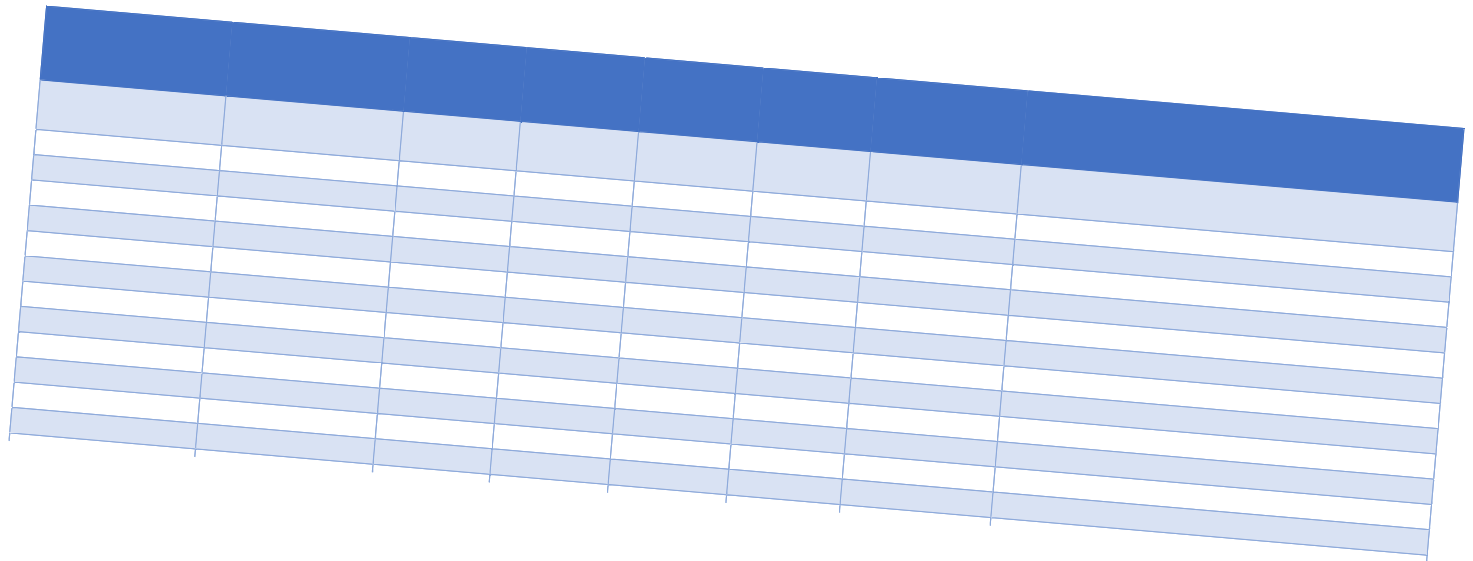


HMP Project Schedule



Public and Stakeholder Outreach

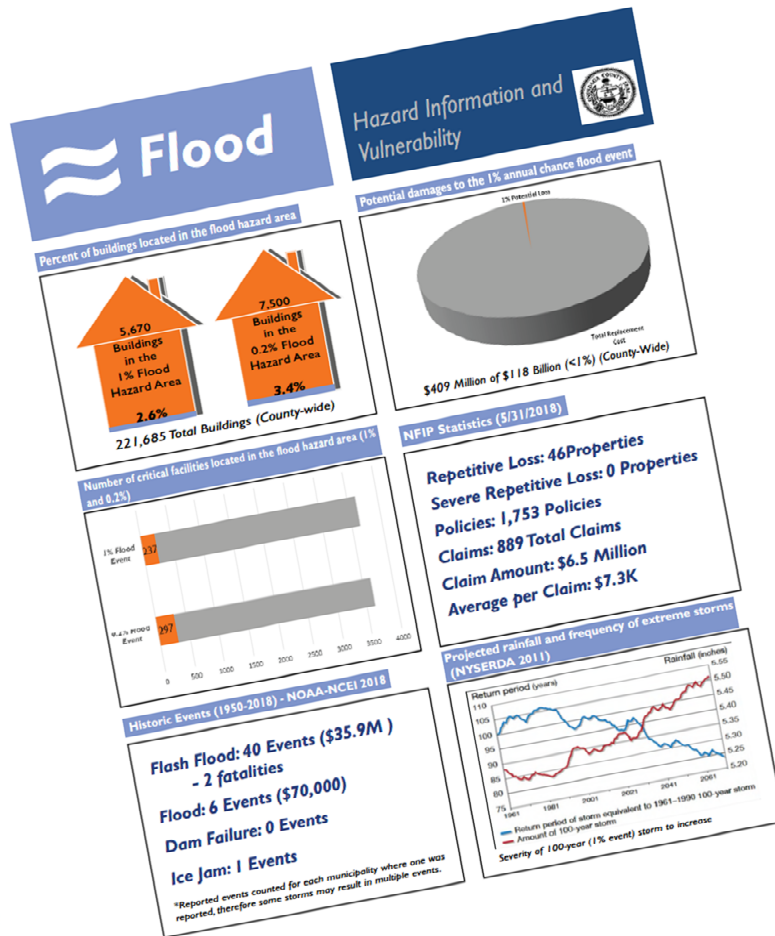
- Forwarded following Steering Committee #1
- Strategy
- Tracking



In-Kind Services

Name of Team Member: _____							
Correspondence Type	Meeting Name, Municipality	Date	Start Time	End Time	# of Hours	Agenda/Sign In?	Notes (include meeting topic, how HMP was discussed, etc.)
Meeting	Chiefs and Fire Advisory Board Meeting	2/26/2020				Yes – sign-in	Discussed the HMP update
Meeting	Town of ?? Board Meeting	3/9/2020	7:00 pm	9:00 pm	2		Discussed the HMP update
Phone Call	Town of ??phone call	3/10/2020			1	No	Spoke with the Town about the HMP process and their responsibilities in participating
Meeting	Town of ?? Board Meeting	3/12/2020	6:30 pm			Yes - agenda	

What is Next? Review Risk and Vulnerability



Next Steps

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



Questions?



The background of the slide is a scenic photograph of a calm blue lake. In the distance, across the water, is a two-story yellow building with a dark roof, surrounded by lush green trees. The sky is clear and blue.

Putnam County Project Contact

Robert Lipton, Deputy Commissioner
845-808-4000 |
Robert.Lipton@putnamcountyny.gov

Tetra Tech Project Contacts

Cynthia Addonizio-Bianco, AICP, CFM
(973) 630-8044 | cynthia.bianco@tetrattech.com

Heather Apgar, CFM
(973) 630-8046 | heather.apgar@tetrattech.com

Thank
You!