

Broome County - Levee Flood Hazard Identification

City of Binghamton

Village of Port Dickinson

Village of Johnson City

Town of Union

Village of Endicott

Town of Vestal

Local Levee Partnership Team (LLPT) Meeting 3

June 20th , 2018



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Today's Goal

1	2	3	4
Review Levee Flood Hazard	Discuss Draft Levee Plan	Review Levee Plan Comments and Levee Discussion Topics	Questions?
			



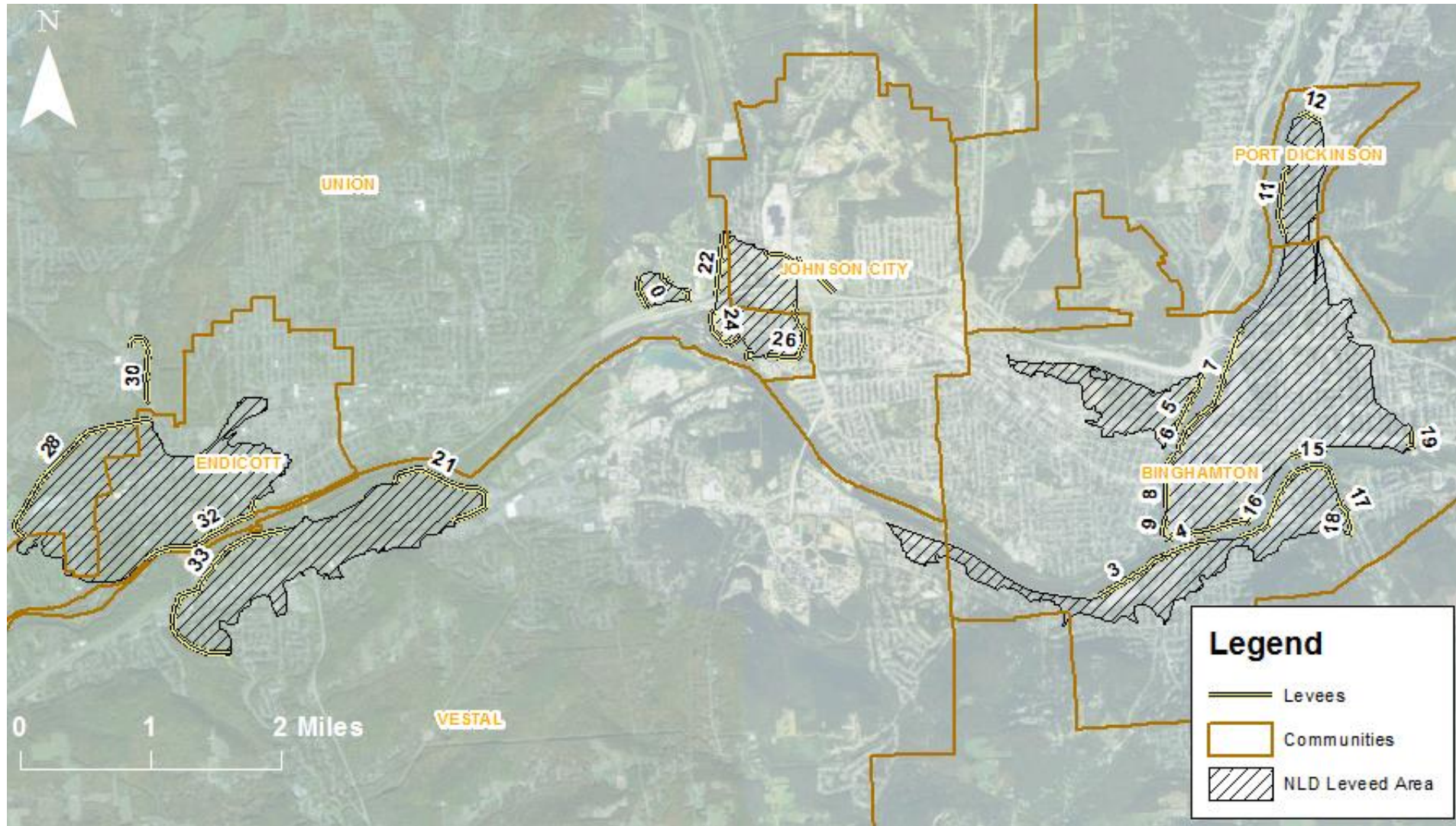
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Review Levee Flood Hazard



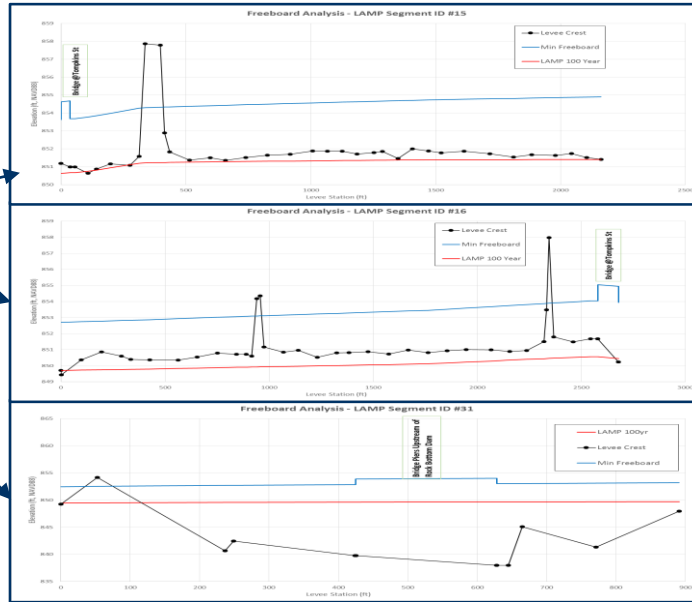
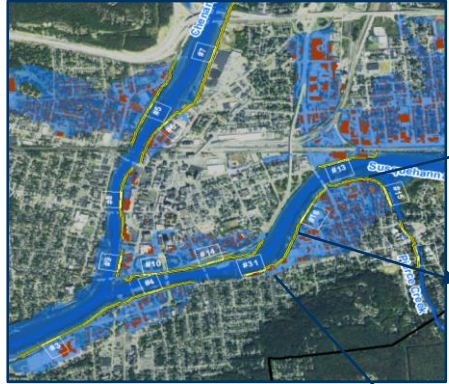
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Levee Systems

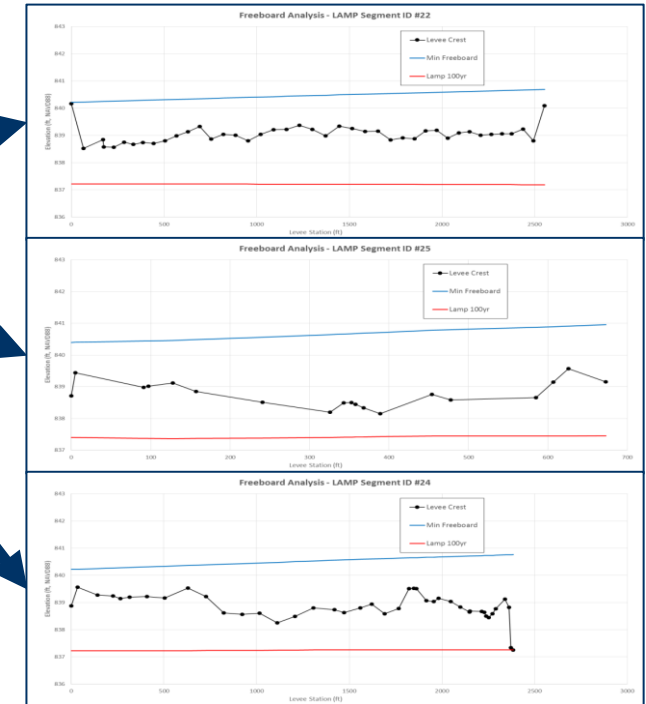
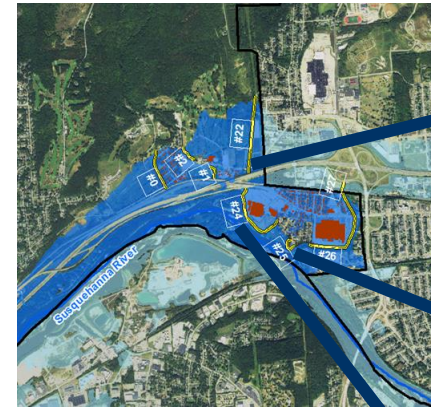


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Freeboard Analysis



Example1: City of Binghamton



Example 2: Town of Union

Levee Flood Hazard Identification Project Engagement



Initial Stakeholder Engagement Meeting – July 26th, 2016

- Introduction to Levee Flood Hazard Identification Project
- Local Levee Partnership Team (LLPT) Formation



LLPT Meeting 2 (Part 1) – February 15th, 2017

- Review results of Initial Data Analysis – Natural Valley Procedure

LLPT Meeting 2 (Part 2) – May 14th, 2018

- Review results of Initial Data Analysis – Natural Valley Structure Based Inundation Procedure



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Discuss Draft Levee Plan

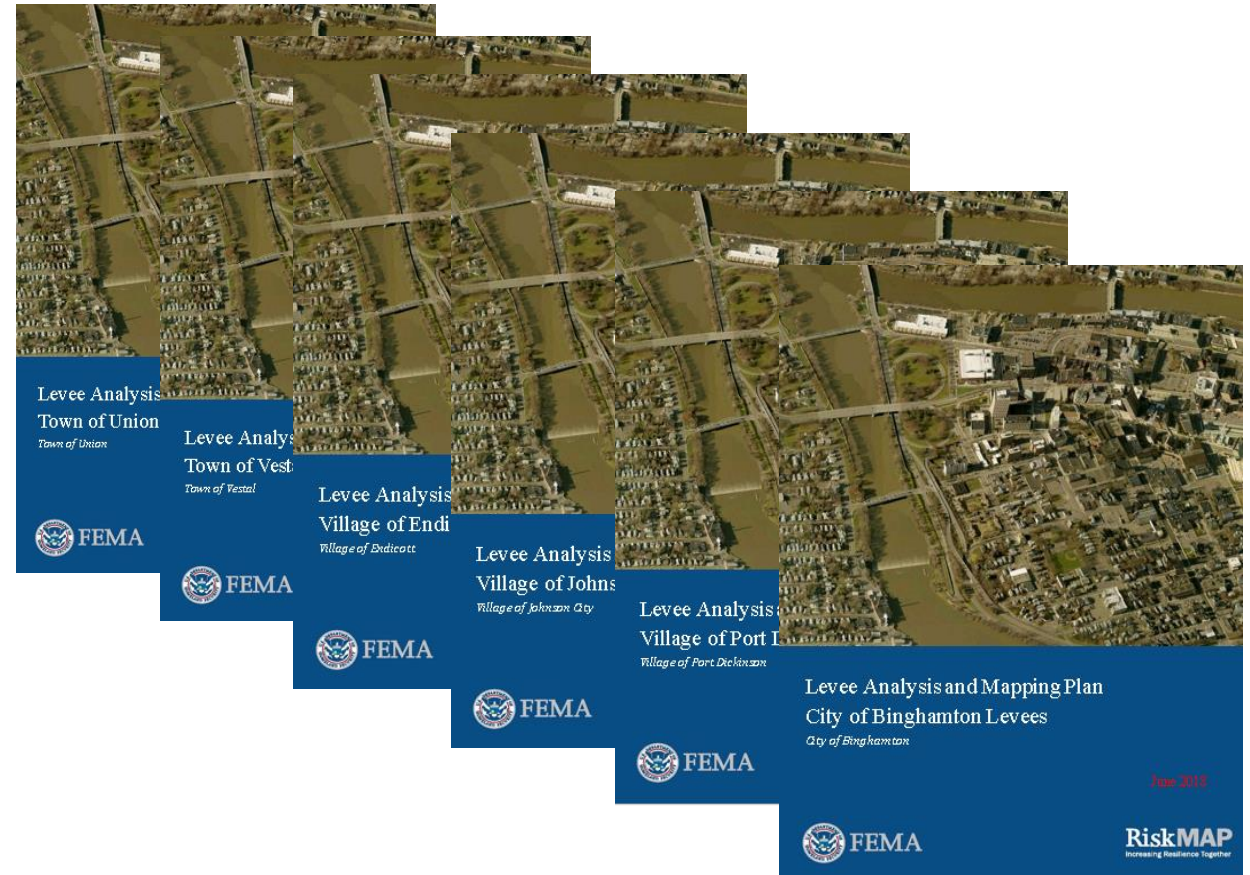


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Levee Analysis and Mapping Plan

Levee Analysis and Mapping Plan includes the following:

- Levee Overview
- Levee Analysis and Mapping Procedure Background
- LLPT and Stakeholder Engagement
- Freeboard Profile Comparison
- Initial Data Analysis and Findings
- Supporting Data (meeting notes, collected data, analyses)



Review Reach and Study Procedures



Applicable

Natural Valley Procedure

Structural-Based Inundation Procedure

- Levees do not have known vulnerabilities or history of breaching



Potentially Applicable

Freeboard Deficient Procedure

- 44 CFR 65.10 compliant documentation required, except for freeboard
- Levee crest must be at or above BFE

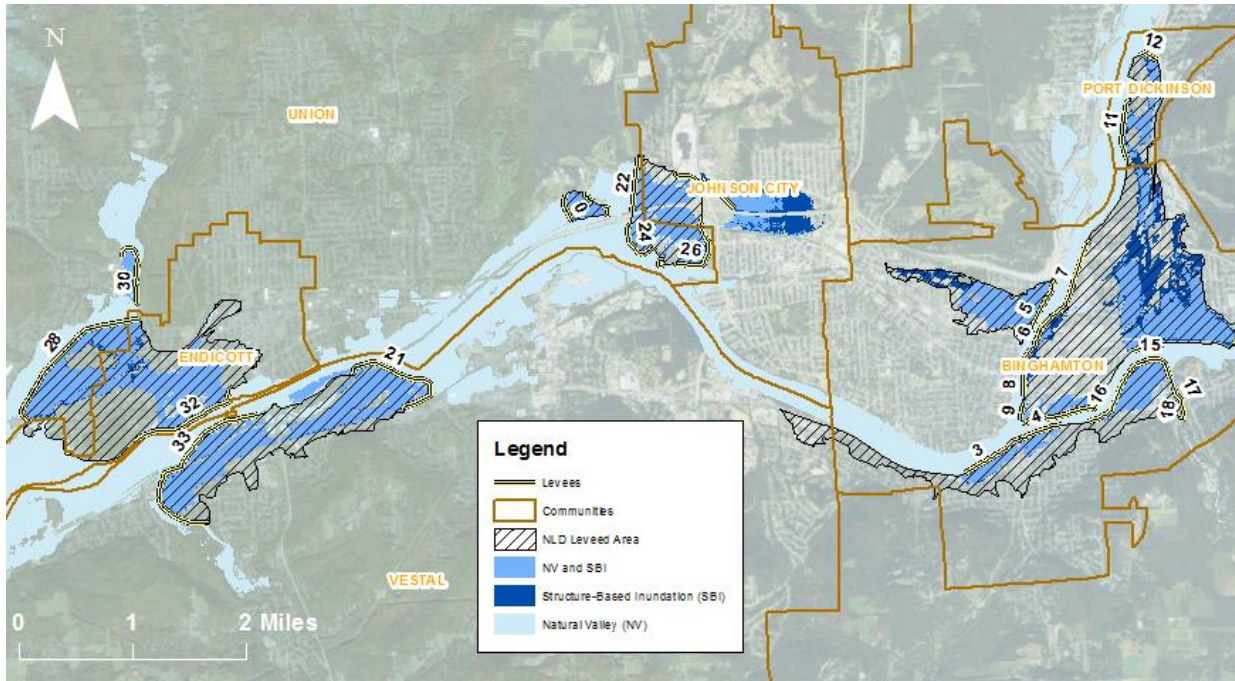
Overtopping Procedure

- 44 CFR 65.10 compliant documentation required, except for freeboard & $BFE < \text{Levee crest}$

Sound Reach Procedure

- Not applicable to single reach of non-accredited levee system
- 44 CFR 65.10-compliant documentation required

Reach Analysis Procedure Comparison



increasing data requirements

Natural Valley Procedure

- No additional data requirements

Structural-Based Inundation

- Best available levee crest data used

Overtopping, Freeboard Procedures

Sound Reach Procedure

Review Levee Plan Comments and Community Questions



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Levee Plan Comments

- Draft plan shared with meeting minutes
- Initial feedback received from NYSDEC
 - Recommendation for clarifying language on the path forward
- Are there any comments to share now or to be expected?

Levee Discussion Topics

Future FEMA Studies

- Levee Analysis and Mapping Plan will be revisited whenever mapping updates occur
 - Not expected for near future
- Modeling will incorporate new data since the last update (2009)

Village of Nichols Webinar

- First levee in New York State to successfully address 44CFR65.10 Mapping of Areas Projected by Levee Systems
- Levee system will be mapped as accredited on future Flood Insurance Rate Map
- Recorded March 13, 2018 webinar will be available for future reference.

Additional Considerations

- Hazard Mitigation Plan Updates
- Emergency Action Plan Updates

Next Steps

- Address comments received on Draft Levee Analysis and Mapping Plan from LLPT
- Finalize Plan and Distribute

Contacts

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Thank You

Challenges, Innovation, The way forward