Memorandum of Meeting

To: Becky Curran, Hazard Mitigation Plan Implementation/Monitoring Team

CC: Carl Simons

From: Craig Pereira

Date: 12/19/2012

Re: Public Workshop regarding the Hazard Mitigation Plan Update

The Horsley Witten Group conducted a Public Workshop on Wednesday December 5, 2012 in the Abbot Public Library to introduce/announce the project to the general public, provide an overview of hazard mitigation planning, discuss the existing 2004 Plan (Risk and Vulnerability Assessment, Hazard Index, Mitigation Measures, and Report Card), and to solicit comments from the general public. Approximately 20 members of the community were in attendance, including a mix of municipal officials and residents. An attendance/sign –in sheet and PowerPoint Presentation are attached. The following is a summary of the Public Workshop presentation and comments received:

- Craig Pereira (Consultant Horsley Witten Group) opened the workshop with introductions and the Town's need for continued hazard mitigation planning. Mr. Pereira also recognized Ms. Marybeth Groff, CFM Hazard Mitigation Planner – Massachusetts Emergency Management Agency (MEMA) attendance at the meeting.
- Mr. Pereira followed with an overview of the plan update process, followed by a review of
 the status of the 2004 Plan action items, then concluded with recent accomplishments above
 and beyond what was included in the 2004 Plan by municipal department interviews
 conducted in late Fall.
- The following questions were received from the public following the completion of the presentation:
 - o Is there a significant change in the new FEMA Flood Plain Mapping?
 - o Will the plan take into consideration what the schools (shelters) need?
 - Are you aware that in addition to the closure of the Causeway (isolating residents on the Neck), that Fort Sewall also gets cut off occasionally?
 - Will you be mapping coastal shoreline erosion changes that have happened over time?
 - The Town is too complacent because they haven't experienced an event large/strong enough to really impact the community.
- Following the Q&A session, participants were provided the opportunity to mark up townwide maps identifying specific problem areas. The following comments were included on the mapping:
 - Erosion at Fort Sewall
 - Acquisition of property of Gerry's Island
 - O Sea wall along the coast at the terminus of Gingerbread Hill Road
 - Wall and fence at coast along Front Street (Franklin Street terminus)
 - o Brick pavers and sea wall at Clark's Landing experiences sinkholes every year

- O Pleasant St. and Curtis St. drainage project approved at Town Meeting 5/12
- o Address small area of Causeway sea wall that still overtops in storms
- o Potential for flood damage at Devereux Beach
- o Tower School experiences flooding
- o Recent waterfront acquisition north of Wyman Woods Conservation Area
- o Wave issues along the coast east of Bass Rock

Marblehead Hazard Mitigation Plan Update

Public Workshop

Abbot Public Library 235 Pleasant Street

December 5, 2012 – 7:00 PM

Agenda

- 1. Hazard Mitigation Planning Overview
- 2. 2004 Plan
 - a. Risk and Vulnerability Assessment
 - b. Hazard Index
 - c. Mitigation Measures
 - d. Report Card
- 3. Next Steps
- 4. Public Comments

Town of Marblehead Natural Hazards Mitigation Plan December 2004 - Update

Public Workshop December 5, 2012 7:00 pm Abbot Public Library



Why Hazard Mitigation Planning?

Disaster Mitigation Act of 2000, Interim Final Rule, 44 CFR Parts 201 and 206 states, "All communities must have an approved Multiple Hazards Mitigation Plan in order to qualify for future federal disaster mitigation grants".

Reduction or elimination of long-term risk to life, property, and the environment.



Marblehead Hazard Mitigation Plan Implementation/Monitoring Team

- · Rebecca Curran, Town Planner
- Jeff Chelgren, Town Administrator
- · Chuck Cerrutti, Emergency Management Director
- Jason Gilliland, Fire Chief
- Bob Picariello, Police Chief
- ${\color{red} \boldsymbol{\cdot}} \ Chuck\ McCollum,\ Superintendent\ Water/Sewer\ Dept.$
- Amy McHugh, Assistant Superintendent Water/Sewer Dept.
- · Willy Lanphear, Town Engineer/Conservation Commission
- · William Conly, Historic Commission
- Bob Ives, Building Commissioner
- · Craig Pereira, Consultant Horsley Witten Group



Mitigation Process

- · Assess Risks
- Establish Goals
- Identify Projects/Actions
- · Update/Maintain Plan



Assess Risks..

Risk and Vulnerability Assessment

Natural Hazard:

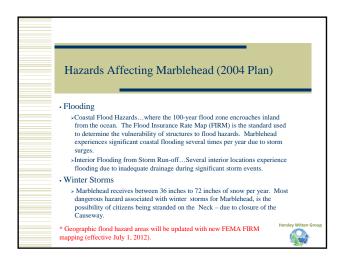
"Any event or physical condition that has the potential to cause fatalities, injuries, property damage, infrastructure damage, and agricultural loss, damage to the environment, interruption of business, or other types of harm and/or loss".



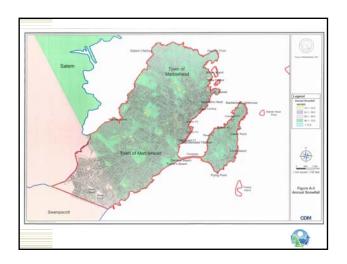
Hazards Affecting Marblehead (2004 Plan)

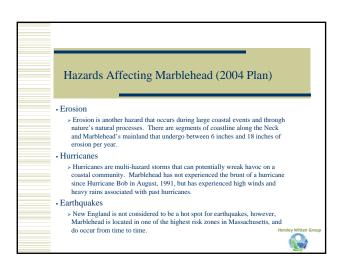
- · Flood-Related
 - > Coastal Storms/Nor'easters/Thunderstorms/Winter Storms
 - > Erosion
 - > Hurricanes
- > Interior Flooding from Storm Run-off · Wind-Related
- > Hurricanes
- > Coastal Storms/Winter Storms
- Fire-Related > Urban Fires
- Geologic
- > Earthquakes
- * Hazards affecting Marblehead will be updated to include climate change and sea level rise

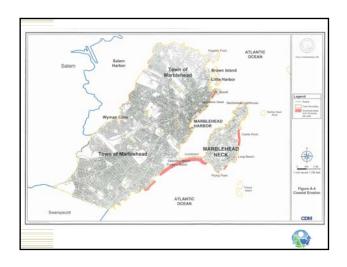


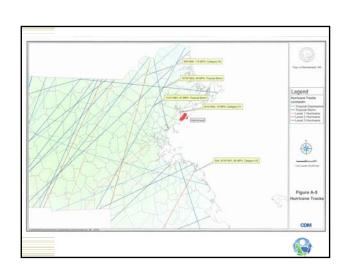


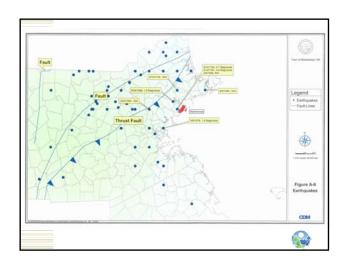


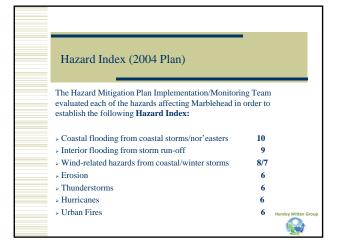










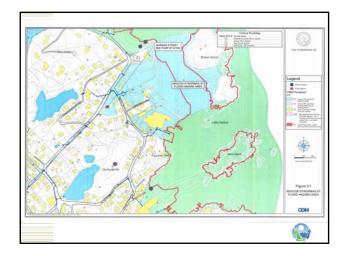


High Hazard Areas (2004 Plan)

Flood related hazards (coastal due to storm surge and inland due to stormwater collection deficiencies) are the major issues of natural hazard risk to the Town of Marblehead, resulting in the identification of the following coastal-hazard area profiles:

- » Beacon Street/Norman Street
- > Front Street/Doaks Lane
- > Devereux Beach/Tucker's Beach
- > Front Street/Ferry Lane
- » Boston Yacht Club
- > The Causeway
- > Foster Street/Sean Way
- » Sargent Road/Ocean Avenue





High Hazard Areas (2004 Plan)

Second only to coastal flooding, interior flooding caused by deficiencies in the Town's storm water collection system resulted in the development and approval (June 2012) of the *Pleasant Street Drainage Project* to remedy some of the remaining interior flooding issues associated with multiple residential and commercial structures, public utilities, and municipally-owned properties.

Other previously identified interior flooding issues have been reduced or eliminated through the installation of larger drain pipes, and new outfalls, cleaning of existing drain lines, replacement of defective pipes, adding additional inlet capacity and redirecting flow to other areas and/or outfalls.



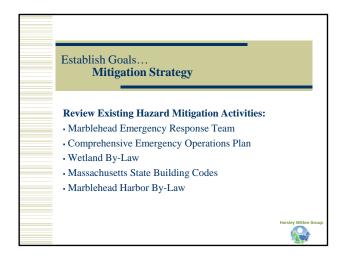
Assess Risks... Risk and Vulnerability Assessment Identification of Assets • Economic Assets • Businesses/major employers • Tourist destinations • Social Assets • Vulnerable populations • Cultural locations • Natural Resources • Lifeline and utility systems • Wetlands

> Conservation and recreation lands

Assess Risks... Risk and Vulnerability Assessment Identification of Assets • Essential Buildings and Critical Facilities • Municipal buildings • Hazardous facilities • Roadways One hundred and twenty seven (127) critical facilities have been identified by the Massachusetts Emergency Management Agency (MEMA, 2004) and Town officials, with only a portion located in high hazard areas.

Assess Risks... Risk and Vulnerability Assessment Identification of Assets There are an estimated (2004) 280 residents living in 70 properties within the main coastal flood hazard area in Marblehead, and approximately 23 commercial properties and 10 wastewater pump stations located within these flood hazard profile areas. A detailed listing of the structures considered vulnerable to coastal flooding is estimated at \$112.5 million . FEMA reports a total of 18 structures that have had at least two flood insurance claims (Repetitive Loss Structures).

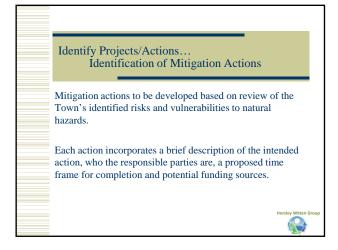




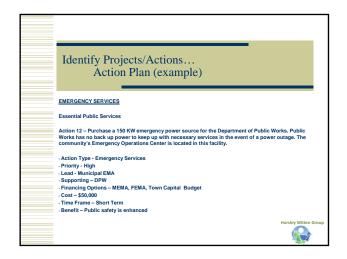


Establish Goals... Mitigation Measures Planning and Prevention Property Protection Natural Resource Protection Structural Projects Emergency Services, and Public Education and Awareness Proposed approach to reconfigure the format/layout of the updated plan.



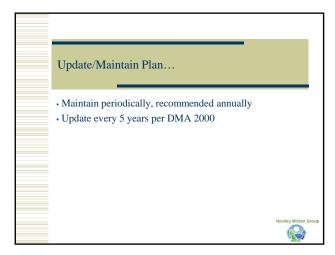


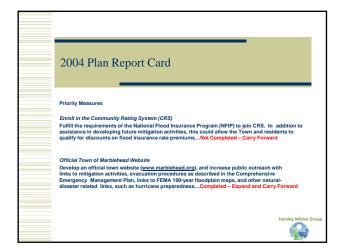




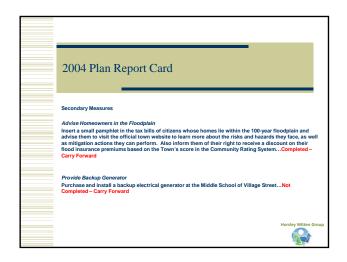


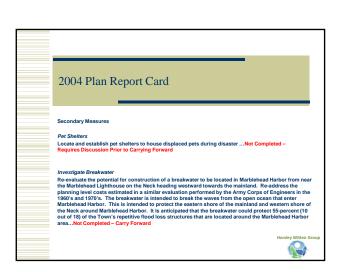
Mitigation Process - Assess Risks - Establish Goals - Identify Projects/Actions - Update/Maintain Plan

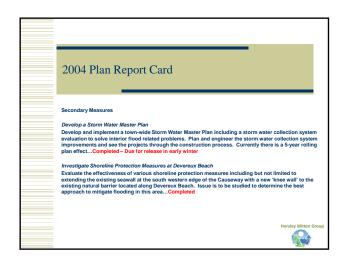


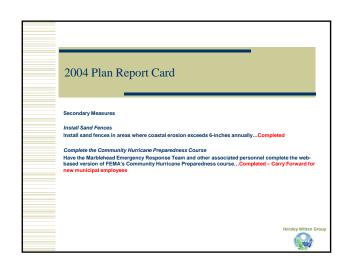














Marblehead Hazard Mitigation Plan Update Public Workshop

Sign in Sheet

Abbot Public Library 235 Pleasant Street

December 5, 2012 - 7:00 PM

Name	Email Address	Phone
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Kyle Wiley	Wileykemarblehel.org	631-0000

