

APPENDIX II

WESTBROOK GOALS AND IMPLEMENTATION

There are various options available to the Town of Westbrook for hazard mitigation. Town government officials, boards, commission, and agencies will be the overall responsible parties for educating the public on the need for mitigation and options for reducing damage from natural hazards. The following sections are divided into objectives to meet the goals listed. Listed are the supporting tasks with the board/ commission or individual responsible for implementation and timeline for consideration and the priority of the task. The priority are listed as very high, high, medium, and low based on priorities established by the town during draft review. Modifications made be made after public review and adoption. The primary responsibility will be the application for grant funding and budgeting where appropriate to implement these supporting tasks.

Planning Process: Old Saybrook municipal personnel were interviewed and consulted in the development of each town section for risk, vulnerabilities, municipal challenges, and mitigation objectives as described in the Natural Hazards Mitigation Regional Overview. (pages 34-36). The following documents were referenced to identify existing mitigation strategies and proposed mitigation strategies:

The town will make every effort to include or incorporate the mitigation goals , tasks, and plan into these plans, codes, regulations, and programs.

- Town of Westbrook Subdivision Regulations
- Town of Westbrook Zoning Regulations
- Town of Westbrook Plan of Conservation and Development
- Old Saybrook Inland Wetlands and Watercourses Regulations, rev to1/05
- FEMA Flood Study, Old Saybrook, CT – Jan, 1978
- FEMA Flood Insurance Study Supplement – Wave Height Analysis, Jan, 1984

The individual town review was important for the development of goals and objectives within Old Saybrook. After the supporting tasks were compiled, town personnel evaluated each task using the STAPLEE criteria described in FEMA's "How-to Guide #3: Developing the Mitigation Plan" (FEMA 386-3. The evaluation yielded priority ratings based on the following: (Very High – if the task met 6-7 of the STAPLEE criteria), (High – if the task met 4-5 of the STAPLEE criteria), (Medium – if the task met 2-3 of the STAPLEE criteria), and (Low – if the task met 1 of the STAPLEE criteria)

Prioritization and timelines will be incorporated upon completion of the public hearing/ adoption process

Areas in yellow denote tasks which qualify for Community Rating System reward points. The National Flood Insurance Program's (NFIP) Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from

the community actions meeting the three goals of the CRS: (1) reduce flood losses; (2) facilitate accurate insurance rating; and (3) promote the awareness of flood insurance.

Goal 1. Ensure that public funds are used in the most efficient manner.

Objectives: Prioritize mitigation projects based on available funding starting with sites facing the greatest threat to life, health, and property.

#	<u>Supporting Tasks</u>	<u>Who</u>	<u>Timeline</u>	<u>Priority</u>	<u>Completion Goal</u>	
	Develop a strategy for use of public funding to protect public services and critical facilities through municipal capitol improvement program and regional transportation program	Board of Selectmen/OEM/ Public Works	2006 - 2011	High (example)	2006- 2008	(example)
	Evaluate opportunities for public funding for projects on private property where the benefits exceed the costs	Board of Selectmen				
	Identify and apply for outside sources of funding	Board of Selectmen				
	Promote owner participation in mitigation efforts to protect their own properties.	Board of Selectmen				

GOAL 2: Reduce the loss of life and property and associated economic impacts from floods, high winds, severe winter storms, earthquakes and dam failure.

Objective 1 - Ensure that critical facilities continue to function during a hazard event.

#	<u>Supporting Tasks</u>	<u>Who</u>	<u>Timeline</u>	<u>Priority</u>	<u>Completion Goal</u>	
1	Update the flood zone study for the town to incorporate changed conditions upland and within the floodplain, and an expected sea level rise over the next twenty years.	Board of Selectmen	2006-2011	High		
2	Strengthen existing subdivision and zoning regulations to either optimally prevent road or house construction within the floodplain, or alternatively.	Planning/ Zoning	2006-2011	High		
3	Ensure that flood proof construction standards for roads and structures within the flood plain are strictly enforced	Building Official/ Planning/Zoning/ZBA/ Board of Selectmen	Ongoing	High		
4	Review and revise storage of critical files and electronics at the Town Municipal Center to ensure that flooding will not destroy valuable records. Provide a back up GIS mapping system at the EOC out of the flood zones and surge areas. Provide training to emergency management volunteers and officials on the use of GIS for emergency mapping	Board of Selectmen/ OEM	2006-2011	High		
5	Develop a priority list for road reconstruction and elevation for routes which experience frequent flooding or are integral to evacuation identifying Route 1 and five roads near the high school noted on Map 3 as priority	Board of Selectmen/ Public Works	2006-2012	Very High		
6	Implement strategic enforcement actions to include engineering reports for structural expansion or alterations on properties within the 100 year flood zone.	Building Official	2006-2010	Medium		
7	Access and incorporate regional Geographic Information System (GIS) mapping to coordinate for accuracy with	Board of Selectmen, Planning	2006 – 2008	Medium		

	HAZUS data maintained by the CRERPA GIS system. Update town GIS layers yearly to reflect future property damage, access issues, and evacuation for residents from flooding events.	and Zoning, Assessor				
8	Conduct a full evaluation of dams in conjunction with state review which includes a timeline and allocation of funding for repairs.	Board of Selectmen, Public Works	2006-2011			
9	Implement mapping and monitoring of storm-water outlets and infrastructure. Provide for yearly maintenance programs for storm-water facilities and encourage the update of regulations to provide for no-net runoff from development	Board of Selectmen, Public Works	2006 - 2011			
10	Encourage property owners listed in repetitive loss report to obtain assistance for hazard mitigation funding from DEP/FEMA for elevation of structures and repairs where applicable	Board of Selectmen, Beach Associations	2006-2011			

Objective 2 – Educate the town residents about natural disasters, mitigation activities and preparedness

#	<u>Supporting Tasks</u>	<u>Who</u>	<u>Timeline</u>	<u>Priority</u>	<u>Completed</u>
1	Visit schools and educate children about the risks of floods, hurricanes, and other natural hazards and how to prepare for them	OEM, Police, Fire, Regional OEM board	Yearly		
2	Access existing literature prepare by regional groups and the chamber of commerce and FEMA and display for public distribution in Town Hall and Library	Planning, Zoning, Library	2006-2011		
3	Update town webpage with section on Hazard Preparedness for the public. Include maps of evacuation route, storm surge areas, and shelters. Include options for mitigation for residential structures and business recovery and provide link to FEMA, NOAA, State OEM and CRERPA websites for additional	Board of Selectmen, OEM, RPO, State OEM	Yearly		

	information				
4	Provide pamphlets and refer to web-based information for property owners for hazards listed in this document to show options for obtaining additional insurance, structural alterations to protect against various hazard damage, and emergency procedures for families during a hazard even Include information for contractors and homeowners on the risks of building in hazard prone areas	Building/ Planning/ Zoning	2006- 2011		
5	Identify refuges of last resort for those unable to reach designated shelters	Board of Selectmen/OEM	Annual		
6	Distribute hurricane preparedness information including pet sheltering plans	Board of Selectmen/ OEM	Annual		
7	During vulnerable periods, a system of warnings about campfires and open fires should be posted in public locations.	OEM/ Fire/ Police	Annual		
8	Training and education of new firefighters include brush and forest fires	OEM/Fire	Annual		
9	Create a published hotline for public information and volunteer support: family to family assistance, medical assistance, transportation for evacuees, etc.	OEM/ Selectmen/ RPO			
10	Review established chain of command for hazard mitigation and relief efforts and publish and promote for public knowledge.				

Objective 3 - Institute long term goals to enhance short term – high priority mitigation

#	<u>Supporting Tasks</u>	<u>Who</u>	<u>Timeline</u>	<u>Priority</u>	<u>Completed</u>
1	Advance an assertive open space acquisition plan for unprotected areas that are subject to flooding. Acquire shorefront land for open space	Board of Selectmen/ Conservation Commission	2006- 2011		
2	Implement a Tree Hazard Management Program to	Board of Selectmen/	2006 - 2011		

	encourage responsible planting practices and minimized future storm damage to buildings, utilities, and streets	Tree Warden/ Utilities			
3	Land-use planning that encourages groundwater retention within existing new, and redeveloping areas.	Planning/ Zoning/ Conservation Commissions	2006- 2011		
4	Implement dune restoration and marshland protection techniques	Harbor Management/ Board of Selectmen/ Conservation Commission	2006- 2011		
5	Advance planning for drought to minimize impacts includes frequent updates to town-wide groundwater studies	Board of Selectmen	2006- 2011		
6	Recommendations for future land use patterns including recharge into existing aquifers, including site design to encourage water conservation through such techniques as: strict regulation of vegetative buffers for stream and river corridors, rain gardens for site drainage, and prohibition of wetlands alteration.	Board of Selectmen/ Planning/ Zoning/ Conservation	2006- 2011		
7	Where water supplies are insufficient, new development should include dry hydrants.	Board of Selectmen/ Planning/ Zoning	2006- 2011		
8	During periods of drought, forestry practices should be established that increase the ability of firefighters to access forest fires.	Board of Selectmen/ Fire/ Planning/ Zoning	2006- 2011		
9	Encourage neighborhood preservation/revitalization for wind damage retrofitting	Board of Selectmen/ Planning/ Zoning	2006- 2011		
10	Require the installation of underground/buried utilities for all new residential and	Planning/Zoning	2006- 2011		

	commercial developments				
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Objective 4 – Create opportunities for public involvement and investment in hazard mitigation

#	Supporting Tasks	Who	Timeline	Priority	Completed
1	Develop a list of techniques for homeowner self-inspection especially for those located in coastal areas as listed below	Board of Selectmen/ OEM/ Building	2006- 2011		
2	Adopt regulations and promote low impact development (LID) methods that include storm water on individual lots. Include storm water absorption techniques such as rain gardens, creative use of wetlands, gallery systems to retain water on site for discharge into aquifers	Planning/ Zoning/ Conservation Commissions	2006- 2011		
3	Review mitigation goals and objectives with beach associations at the beginning of each season. Encourage the association's help to educate homeowners	Board of Selectmen/ OEM	2006- 2011		
4	Enlist public participation through public workshops to develop methods for notification of emergencies	Board of Selectmen/OEM/ Police/Fire			
5	Develop business recovery plan cooperatively with other region's towns and distribute to town businesses	Board of Selectmen/Chamber of Commerce			
6	Develop strategy and program for flood prone property owners who request a buyout	Board of Selectmen			
7	Publish materials on additional hazards, earthquake, wildfire, and tornado. Encourage additional insurance				

List of A-Z Strategies for Homeowners of Coastal Properties

- a. Wet floodproofing (Allow water to enter uninhabited areas of the house)

- b. Venting on roofs
- c. Dry floodproofing (Sealing the structure to prevent floodwaters from entering)
- d. Installation of in place shutters for glazed openings
- e. Bracings with struts on walls
- f. Elevation of structures by piers, posts or column
- g. Anchoring and connections in walls
- h. Reinforce entry doors
- i. Install hurricane straps and hurricane clips
- j. Garage doors with stiffer horizontal members
- k. Glider tracks and track supports should be strengthened
- l. Bracing struts pilaster columns in walls perpendicular to freestanding walls
- m. Renail sheathing
- n. Create a secondary water barrier
- o. Provide support for sliding glass doors and double doors opening to outside
- p. Improve anchorage of windows to openings
- q. Add ridge ventilators to reduce uplift of wood sheathing
- r. Strengthen garage doors
- s. Anchor adjacent structures, including fences, pool enclosures, and patio roofs
- t. Improve connections of porch roofs and overhangs
- u. Reinforce entry doors
- v. Buried utilities in new subdivision development and onsite within new commercial developments
- w. Landscaping practices that encourage the planting of species that are less susceptible to damage from ice storms to reduce to probability of damage structures
- x. Plan for inability or assistance needed to evacuate and strategies for pets.
- y. Evaluating dangers of being outside or traveling, the danger of carbon monoxide poisoning in motor vehicles and from portable heaters and power generators in homes, the danger of house fires.
- z. Evaluating danger of hypothermia from prolonged exposure to cold weather