Plan adopted August 5, 2014
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INTRODUCTION AND PURPOSE

The purpose of this plan is to assist the Town of Readsboro in identifying all of the hazards facing the town and to identify strategies to begin reducing risks from identified hazards.

Hazard mitigation is any sustained action that reduces or eliminates long-term risk to people and property from natural and human-caused hazards and their effects. Based on the results of previous Project Impact efforts, FEMA and state agencies have come to recognize that it is less expensive to prevent disasters than to repeatedly repair damage after a disaster has struck. This plan recognizes that communities have opportunities to identify mitigation strategies and measures during all of the other phases of Emergency Management – preparedness, response and recovery. Hazards cannot be eliminated, but it is possible to determine what the hazards are, where the hazards are most severe and identify local actions that can be taken to reduce the severity of the hazard.

Hazard mitigation strategies and measures alter the hazard by eliminating or reducing the frequency of occurrence, averting the hazard by redirecting the impact by means of a structure or land treatment, adapt to the hazard by modifying structures or standards or avoid the hazard by stopping or limiting development, and could include projects such as:

- Flood-proofing structures
- Tying down propane/fuel tanks in flood-prone areas
- Elevating furnaces and water heaters
- Identifying and modifying high traffic incident locations and routes
- Ensuring adequate water supply
- Elevating structures or utilities above flood levels
- Identifying and upgrading undersized culverts
- Proactive land use planning for floodplains and other flood-prone areas
- Proper road maintenance and construction
- Ensuring critical facilities are safely located
- Establish and enforce appropriate building codes
- Public information

WINDHAM REGION GEOGRAPHY

The Region includes the towns of Athens, Brattleboro, Brookline, Dover, Dummerston, Grafton, Guilford, Halifax, Jamaica, Londonderry, Marlboro, Newfane, Putney, Rockingham, Stratton, Townshend, Vernon, Wardsboro, Westminster, Whitingham, Wilmington, and Windham in Windham County; the neighboring towns of Readsboro, Searsburg, and Winhall are in Bennington County; and Weston is in Windsor County. Situated in Vermont's southeastern corner, the Region is bordered by Bennington and Windsor Counties to the west and north, Massachusetts to the south and New Hampshire to the east. The Region's area is nearly 600,000 acres, or over 900 square miles.

The topography is generally hilly, with steep slopes on the river valleys on the east slopes on the Green Mountains. The Connecticut River Valley contains areas of relatively flat and gently rolling land. The Green Mountains form the western edge of the region with a landscape of ridges and mountain peaks with narrow stream valleys. Stratton Mountain is the highest point in the region at 3,936 feet. The lowest point is along the Connecticut River in Vernon at 200 feet.

In addition to the Connecticut, other major rivers of the region are the Deerfield, Green, North, Saxtons, West, and Williams, all tributaries of the Connecticut. There are two major flood control reservoirs on the West River, Ball Mountain and Townshend, and two major storage reservoirs for hydropower generation on the Deerfield River, Somerset and Harriman.
READSBORO GEOGRAPHY & TOWN PROFILE

The Town of Readsboro is located in the southeastern corner of Bennington County on the Massachusetts state line. The Town is bordered by six towns: Searsburg, Woodford and Stamford in Bennington County; Whitingham and Wilmington in Windham County; and Monroe in Franklin County, Massachusetts. State Routes 100 and 8 are the main roads serving the community. The Town is located 35 miles from Brattleboro and I-91, 24 miles from Bennington, 14 miles from Wilmington, and 17 miles from North Adams Massachusetts; making these cities and towns the most convenient and accessible places for the residents of Readsboro to work and shop. The Town is somewhat removed from the Route 100 ski corridor, being approximately 25 miles from the Mt. Snow/Haystack area.

The Green Mountains are the principal element of the physical geography of the Town of Readsboro. Much of the northern portion of the Town is part of the Green Mountain National Forest. The Town is located in the southeastern portion of the Green Mountain spine with the terrain consisting of many low mountains and hills. The Green Mountain National Forest owns approximately 36 percent of the land in Readsboro. The highest point in Readsboro is 3,119 feet above sea level.

The Deerfield River Watershed is also an important physical feature of the town. The Village of Readsboro is located at the confluence of the West Branch of the Deerfield River and the Deerfield River. The South Branch of the Deerfield River also flows through the southern part of the town. Route 100 follows the West Branch, making this river a visible and important scenic part of the Readsboro landscape. Land use in Readsboro is characterized by large rural areas. Compact settlement exists chiefly in the Village section of Readsboro, which is served by municipal sewer and water. Another small settlement exists in Heartwellville. Both of these settlements are located in the Deerfield River Valley.

The Town of Readsboro is geographically isolated from surrounding towns. Being aware of their remote location, Readsboro states in their Town Plan, Goal 4 the need for emergency management planning (Section 3.4). Some of their priorities for action include; holding a community meeting on emergency preparedness, and to adopt an all-hazards mitigation plan. The closest healthcare facility, North Adams Hospital, and healthcare professional are 17 miles away. Additionally, cellular service is most often not available in town, forcing emergency communication to be dependent on land lines. There is also a lack of Internet service. Police presence is provided on an as-needed basis by the Brattleboro and Shaftsbury Barracks of VT State police. Because of the distance, the town is concerned with response times.

Route 100 is the main highway leading in either direction in and out of Readsboro. If it were closed down, Readsboro would be cut-off, as an island, from any resources. The town also has many dead end roads. The people living on those roads would have no access in and out of their homes if their road were shut down. When the use of large construction vehicles or snow plows are necessary on dead end roads, the issue of turning around at the end poses a problem because it interferes or may have a negative impact on private property.

Development in town does not occur because the village is already very restricted in terms of available space. Most new development takes place in rural residential. Readsboro’s population has not fluctuated much in the last 10 years. However, people living in Readsboro have noticed a definite increase in kayakers on the Deerfield River. Although Readsboro is not on the road that leads to Mt. Snow, it is on the tourist map for fall foliage, there is an annual snowshoe race, part of the Catamount Trail goes through town and they have an annual arts festival in summer.

The Village area functions as the center of civic and commercial activity in Readsboro. Lot sizes are varied in the Village. There is a diversity of densities in housing and commercial activities. While several single-family homes remain, many of the larger homes have been divided into apartments and several businesses have created apartments in their buildings. The combination
of residential and commercial in close proximity have helped spur renewed investment and interest in the village.

The majority of residential development has occurred as low-intensity residential development along Readsboro’s secondary roads. Some small-scale commercial activity is co-located with this residential development. These commercial activities are generally categorized as some sort of home occupation.

As of the winter of 2011, there are no appreciably large scale residential or commercial developments slated for permitting or construction. In recent years, the Planning Commission has issued permit approvals for only a handful of projects. The map below is the most recent and the information is current. Building permits issued in the last two/three years totals five.

2010 Town Plan Map Series
Town of Readsboro, Vermont
prepared for the Readsboro Planning Commission
by Windham Regional Commission, Brattleboro, Vermont

Map series contains:
- Title Map (with insets for Transportation System and Community Facilities & Utilities)
- Transportation System
- Community Facilities and Utilities
- Natural Areas and Wildlife & Water Resources
- Existing Land Use
- Proposed Land Use

Transportation System - Inset
Town of Readsboro, Vermont

Community Facilities and Utilities - Inset
Town of Readsboro, Vermont
PREREQUISITES

Adoption by the Local Governing Body

Certificate of Adoption
Town of Readsboro, VT
Board of Selectmen

A Resolution Adopting the Single Jurisdiction Hazard Mitigation Plan, for the Town of Readsboro, VT

WHEREAS, the Town of Readsboro, VT has worked with the Windham Regional Commission to identify natural hazards, analyze past and potential future damages due to natural disasters, and identify strategies for mitigating future damages; and

WHEREAS, the Town of Readsboro, VT Hazard Mitigation Plan analyzes natural hazards and assesses risks within the community; and

WHEREAS, the Town of Readsboro, VT Hazard Mitigation Plan recommends the implementation of action(s) specific to the community to mitigate against damage from natural hazard events; and

NOW, THEREFORE BE IT RESOLVED that the Town of Readsboro, VT adopts the Hazard Mitigation Plan for the Town of Readsboro, VT.

Duly adopted this 5th day of August, 2014.

Board of Selectmen:

David Marchegiani, Chair

Helyn Strom-Henriksen

(Vacant)

ATTEST

Amber Holland, Town Clerk
PLANNING PROCESS

Planning Participation

Town residents who took part in the planning process for developing the Hazard Mitigation Plan for Readsboro tend to be affiliated with more than one association for the town. In rural areas of Vermont, it is typical that people who are most interested in the safety, health and welfare of their community will preside on more than one board, as well as hold the role of Fire Chief, school teacher, or be a small business owner, in addition to owning personal property in the town. Therefore, although the meeting may not have as many in attendance, as in a more populated community, those present at the meeting are representing not only a variety of roles, but many roles that would be held by individuals in a more populated town or city.

The Town of Readsboro has a mutual aid agreement with the surrounding towns of Whitingham, Wilmington, and Stamford, Vermont. Additionally they include the adjacent town of Florida, Massachusetts. Readsboro also contracts out to North Adams, MA for North Adams Ambulance. Since Readsboro is such an isolated community, they are very aware of the need to involve those neighboring communities in the emergency and hazard planning process.

Readsboro’s hazard mitigation plan was provided by email to the Town Officials in its adjacent communities of Whitingham, Wilmington and North Adams for an opportunity to comment.

The following communities/agencies were invited to participate in, and were notified of the January 5, 2012 Hazard Mitigation Public Hearing. They were notified on December 14, 2011 by email with confirmed receipts of email on same day.

- Town of Whitingham, VT
- Town of Searsburg, VT
- Town of Stamford, VT
- Town of Bennington, VT
- Town of Woodford, VT
- Kitty Sweet, Executive Assistant, Secretary’s Office, Commissioner’s Office, Agency of Commerce and Community Development Department of Economic, Housing and Community Development
- Julie Keliher, General Counsel for the Department of Economic, Housing and Community Development

For the update of this plan to a Single Jurisdiction Hazard Mitigation Plan, the town again informed their neighboring communities giving them an opportunity to view the plan online at the town’s website https://readsborovt.org/ and make any comments. This was done by sending email announcements to Town Offices of the above listed towns and ACCD, to include; Kitty Sweet, Ron Higgins in Woodford, Josie Kilbride in Searsburg, Mike Shaughnessy at the Windham Regional Commission, and Lori Shepherd in Stamford.

The following people attended the emergency planning meeting(s) for the Town of Readsboro. See Appendix A for sign in sheets.

<table>
<thead>
<tr>
<th>Committee Member</th>
<th>Affiliations</th>
<th>Home</th>
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<tbody>
<tr>
<td>Mark Shea</td>
<td>Town Administrator</td>
<td>Winchendon, MA</td>
</tr>
<tr>
<td>Craig Bartosewcz</td>
<td>Selectman Town of Readsboro Barkus Ex</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>Teddy Hopkins</td>
<td>Selectboard Town of Readsboro</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>Raymond Eilers</td>
<td>Selectboard Town of Readsboro Fireman</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td></td>
<td>Owner Eilers Bros. Trk &amp; Exc.</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Position</td>
<td>Location</td>
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</tr>
<tr>
<td>Susan Bailey</td>
<td>Planning Commission, Chair Development Review Board</td>
<td>Readsboro, VT</td>
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<tr>
<td></td>
<td>Hometown Redevelopment Commission</td>
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<tr>
<td>Carl Marchegiani</td>
<td>Fire Chief</td>
<td>Readsboro, VT</td>
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<tr>
<td>Michael R. Boisvert</td>
<td>Readsboro Volunteer Fire Town Fire Warden</td>
<td>Readsboro, VT</td>
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<td>Readsboro Lions</td>
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<tr>
<td>David Marchegiani</td>
<td>Planning Commission, Fire Department Captain, Hometown Redevelopment</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>Dinah Reed</td>
<td>Windham Regional Commission Assistant Planner</td>
<td>Brattleboro, VT</td>
</tr>
<tr>
<td>Deborah Calnan</td>
<td>Selectboard Clerk</td>
<td>Readsboro, VT</td>
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<tr>
<td>Robert Mariechal</td>
<td>Resident</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>Forrest Hicks</td>
<td>Resident, 73 Branch Hill</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>Mary Lemaire</td>
<td>Homeowner at 40 School Street / HMGP application pending for buy-out</td>
<td>Whitingham, VT</td>
</tr>
<tr>
<td>Kim Thayer</td>
<td>Resident, 1456 Branch Hill</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>Rodney Salamone</td>
<td>Resident, 2800 Hill Drive</td>
<td>Readsboro, VT</td>
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**Documentation of the Planning Process**

On Oct. 7, 2010 the emergency committee in Readsboro, to include members of the planning commission, Selectboard, Town Administrator, Fire Chief and Road Foreman met in Readsboro with assistance from the Windham Regional Commission (WRC) to have a discussion about hazard vulnerability and risk in the town. The group convened again later in the month of October to create a list of mitigation strategies and action items for the town. On December 7, 2011 the emergency committee met again to discuss and update this plan to consider the lessons learned from damages that occurred as a result of Hurricane Irene.

The Town of Readsboro will continue to work with the Windham Regional Commission to monitor, evaluate, and update the plan throughout the next 5 year cycle. A review of the plan will take place each year by the emergency planner at the Windham Regional Commission along with the Town’s EMD and Planning Commission Chair to update plan after any FEMA disaster declaration as well as any funding received from FEMA, to record any hazard related events, or to determine if the town is interested in applying for grant funding. Normal review of the plan will take active involvement on the part of the Planning Commission Chair, Select Board Chair and Town EMD, working with Windham Regional Commission staff to identify and plan for ongoing hazard mitigation work and coordination among stakeholders to identify structures and engineering projects that can help mitigate future hazardous events; e.g. bridge and culverts replacements, road replacements and grading, as well as any repetitive loss structures that may be in the Special Flood Hazard Area as identified on FEMA Flood Maps (e.g. FHBM and FIRM maps).

The following hazard mitigation planning meetings were held:

- October 7, 2010, 6-8:30 pm, Readsboro, VT – Readsboro Central School
- October 25, 2010, 10:00am, Readsboro, VT – Town Offices
- December 7, 2011, 6:30pm, Readsboro, VT – Town Offices
- January 5, 2012, 6:30pm, Readsboro, VT – Town Offices – Public Hearing for NFIP Flood Regulations and opportunity to make comment about Hazard Plan.
- August 22, 2012, 4:08 pm by phone – WRC Staff had a phone conversation with the Town Administrator Mark Shea and added (in red) additional mitigation strategies that the town has been doing but were neglected to be added to the matrix on pages 19-22.
October 17, 2012 – Readsboro’s Selectboard re-reviewed this plan and accented to its content. During this meeting the Selectboard discussed this plan along with that the three homes located on the washed-out river bank of the Deerfield River. These homes are uninhabitable and in eminent danger of destruction of falling into the river. To emphasize the urgency of this public safety hazard, these homes if left “as-is” will eventually cause greater damage when they collapse into the Deerfield River. If nothing is done, greater damage will occur if these properties wash out downstream culverts, bridges and roads.

In addition to emails sent to adjacent towns for the Public Hearing on January 5, 2012, a public notice was posted in the Post Office, Country Store, Town Offices, Newspaper and was put as an agenda item on the Selectboard agenda.

November 21, 2012 – Conference Call between Mark Shea, Readsboro Town Administrator, Dinah Reed, WRC and FEMA representatives to discuss changes that need to occur to the plan to revise it from an annex to a Single Jurisdiction Plan.

The Readsboro Hazard Mitigation Plan was recently approved by FEMA on November 7, 2012 as an annex to the Windham Regional All Hazard Multi-Jurisdictional Mitigation Plan. This version of the plan has been updated to be a Single Jurisdiction Hazard Mitigation Plan for the Town of Readsboro.

December 19, 2012 – Readsboro pulled together numerous people from the Selectboard, Fire Department, Residents, Planning Commission and Development Review Board to update the plan to a Single Jurisdiction Hazard Mitigation Plan.

February 3, 2014 – WRC Staff met with Mark Shea, Town Administrator and Sue Bailey, Planning Commission Chair, to address the comments made on the Review Tool by FEMA Region 1, dated 1/1/2014.

The matrix below shows the schedule for updating the plan, and responsible parties:

<table>
<thead>
<tr>
<th>Years</th>
<th>Plan Review</th>
<th>Participating Group</th>
<th>Responsible Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015 -</td>
<td>After Town Meeting Day the Town will coordinate the process of updating the Hazard Mitigation Plan with updating the Local Emergency Operations Plan because of similar topic discussion points</td>
<td>Planning Commission, Town Administrator, Fire Department, Dept. of Public Works, Emergency Management Director, School Board, Zoning Administrator</td>
<td>Town Administrator</td>
</tr>
<tr>
<td>2019</td>
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</table>

The method for monitoring and evaluation of the plan:

The Department of Public Works, on a regular basis – tracks, inspects and documents road conditions, condition of culverts, bridges, road embankments, ditches, sidewalks, town equipment, town buildings, school property, monitoring of trees near power lines, and the water and sewer plant. If there are any issues or problems, he reports them to the Town Administrator and Selectboard. He documents these activities including date of review, and fiscal impacts and project timeline.

The Fire Department Chief meets monthly with the Volunteer Fire Department to review equipment, emergency action plans and procedures. He identifies deficiencies and recommends corrective action to the Selectboard.
Using the documentation put together by both the Public Works Department and the Fire Department, the Town reviews the Hazard Mitigation Plan to update mitigation strategies and evaluates best practices for the coming year.

Public Participation

Making the Readsboro Hazard Mitigation Plan available for public comment includes the following efforts:

- Copies of the Draft plan were made available for public review at the Town Meeting in March, 2012 and a hard copy was made available for public comment at the Town Offices.
- A current copy of the updated single jurisdiction plan is also provided on Readsboro’s town website for public comment, https://readsborovt.org/
- Opportunity provided to review the update of the plan to a Single Jurisdiction plan during the planning process was achieved by emailing adjacent communities to ask them to review the plan. An announcement was posted in three public places and in the Deerfield Valley News. (See Appendix B)
- Staff from NRCS consulted with and made site visits to the Town of Readsboro in September 2011 and in September 2012 to assess the failed/eroded Deerfield River bank on School Street.
- Dr. Richard Downer with FEMA made site visits September 2011 and again in November 2011 to talk to the town about the HMGP process. He also came on December 19, 2012 to do a site visit to consult with the town on future goals and determining mitigation strategies for the town.
- Todd Menees with the VT Department of Environmental Conservation Agency of Natural Resources (ANR) consulted with the town by making a site visit in October 2012 to evaluate a culvert replacement on Ruba Drive, which is currently under appeal with FEMA Public Assistance, due to ANR requirements.

Recollections by the general public was given on past hazard events which were very informative in the planning process of this plan. Other than that, no formal, written feedback was given to the Town of Readsboro on the Draft Hazard Mitigation Plan.

RISK ASSESSMENT

The risk assessment portion of a Hazard Mitigation Plan contributes to the decision-making process for allocating available resources to mitigation projects. 44 CFR Part 201.6(c)(2) of FEMA’s mitigation planning regulations requires local municipalities to provide sufficient hazard and risk information from which to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.

Identifying and Profiling Hazards – The community has identified and focused mitigation action items on the following hazards: Flood, Winter Storm/Ice Storm and High Wind events. It should be noted that Earthquake, Landslide, Avalanche and Extreme Heat, Drought, Wildfire and Tornado/Microburst, are profiled in the State All Hazard Mitigation Plan. This local plan will only profile and analyze natural hazards that have been deemed as having a “highly likely” impact on the Town of Readsboro.

In the “Assessing Vulnerability: Overview” section on page 16, a “Highly Likely” occurrence is one that has a 100% probability of occurring every year. The methodology is fully explained in that section.
The following hazards include a narrative explaining **Location/Geographic Area** and **Extent** (magnitude or severity), **Probability**, and discussion of **Past Occurrences** of all natural hazards that affect the planning area.

**REGIONAL FLOODING**

Aug. 28, 2011 – The Federally Declared Disaster, Tropical Storm Irene, tracked northeast across eastern New York and western New England during Sunday, August 28th, producing widespread flooding, and damaging winds across the region. The greatest impact from Irene across southern Vermont was due to heavy to extreme rainfall, which resulted in catastrophic flooding. Rainfall amounts generally averaged 4 to 8 inches. Much of the rain which fell occurred within a 12 hour period, beginning early Sunday morning, and ending Sunday evening. Route 9, the main route across southern Vermont was closed. Numerous evacuations were reported.

The Vermont Flood of 1927 was the deadliest natural disaster in the history of the State; eighty-four people were killed with over $28 million in property damage. The Spring Floods of 1936, which had an affect on all of New England, caused $113 million in damage, killed 24 people and made 77,000 people homeless. During this flood alone, the main street of Hooksett, New Hampshire was 18 to 20 feet underwater.


**LOCAL FLOODING**

**Description and Geographic Area of Hazard**

Some of the highest hazard areas associated with flash floods are Route 100 along the West Branch of the Deerfield River and residences along the South Branch of the Deerfield River. These areas have all seen damage in recent years with flooding and severe thunderstorms that have been a part of Presidentially declared disasters. Other areas of concern during flooding events are homes located along small brooks that are subject to flooding during quick heavy rain events. Brooks in town, such as Beaver Brook and Howe Pond Brook could pose problems during flooding events.

**Extent**

The most extensive flooding that the town might anticipate occurring happened with the Tropical Storm Irene event in August 2011. In the Village of Readsboro, the Deerfield River rose between 35-40 feet. The bridge on Tunnel Street is approximately 40 feet above the river bottom and the flood waters reached the top of the bridge. Normally the Deerfield River in the Village of Readsboro runs about 2-3 feet deep except during spring snowmelt when it may run as high as 10 feet.

**Probability**

According to the town emergency stakeholder group, floods are deemed Highly Likely to occur in Readsboro. The Town of Readsboro is settled on steep slopes with intense run-off during rain events and snow melt that drains toward roads and the Deerfield River. Two branches of the Deerfield River merge in the village area, the large drainage basin known as Readsboro.

The State of Vermont Agency of Natural Resources (ANR) is in the process of conducting **Stream Geomorphic Assessments**. Phase I and 2 Stream Geomorphic Assessments of the North Branch of the Deerfield River watershed were completed by Bear Creek Environmental during summer 2005. These stream geomorphic assessments provide information about the physical condition of streams within the watershed and the factors that influence their stability. The project was funded through the Vermont Clean and Clear Program.
Past Occurrences
Aug. 28, 2011 – The Federally Declared Disaster, Tropical Storm Irene. Readsboro experienced constant rain fall from this storm event that caused severe flooding. The river bottom in several areas of the Deerfield River were scoured and eroded, causing the embankments to calve off into the river. Rain-fall was in excess of 7 inches in a short period of time. This caused extensive damage to bridges, roads and the municipal water supply. Fluvial erosion had a huge impact on the river banks abutting private properties which are in danger of falling over a tall river embankment into the river during spring run-off of 2012. Currently residents of two homes are displaced due to damage. Other incidents that required attention were debris removal, unplugging culverts, un-passable roads, a broken water main adjacent to the Lions foot-bridge, retaining wall behind the Town Garage, damage to a water line on bridge #32, washed out river bank that exposed the bridge footing to bridge #31. This has directly placed this bridge in danger of failure. Road damages also occurred on Howe Pond Road, Goldmine Road, West Hill Drive, Smith Drive, Bosley Hill Road, Branch Hill Road, Williams Road, Old County Lane, Bailey Hill Road, Ruba Drive, Freezing Hole Drive, Collins Drive, and Main Street. Three homes, located on the washed-out river bank of the Deerfield River, are uninhabitable and in eminent danger of destruction or falling into the river during the TS Irene event.

- 62 School Street, Readsboro, VT 05350. Currently this parcel is owned by Barbara Keith. The total project cost is: $ 146,768.00
- 40 School Street, Readsboro, VT 05350. Currently this parcel is owned by Richard & Mary Lemaire. This property is not inhabited. The total project cost is: $ 105,913.00
- 42 School Street, Readsboro, VT 05350. Currently this parcel is owned by Rodney & Holly Caruso. This property is not inhabited. The total project cost is: $ 118,343.00.

April, 2007 - A flooding event occurred which was associated with flash floods and inundation flooding over a period of several days in the spring (April 15-21). Rain and snow caused damage to roads and utility lines across Windham County and Readsboro. Across the State nearly 3.6 million dollars was obligated as part of the FEMA Public Assistance Program.

August 2004 - A severe period of flooding and thunderstorms, which lasted from the period of August 12- September 12 engendered Presidential Disaster Declaration DR – 1559.

August, 2003 - Nearly constant rain and thunderstorms affected Readbsoro from the period of July 21 through August 18. FEMA Declaration DR – 1488 was associated with this event. Many roads were washed out and culverts needed replacing throughout town.

Early 2000s – before Branch Hill Road was black-top, 4 inches of rain washed out the road.

August 1976 – At the confluence of the West Branch of the Deerfield River and the main branch, in the center of the village, floods occurred as a result of heavy rains.

Sept. 21, 1938 - Hurricane Igor hit our region, paralyzing it for weeks. As it was coming, packing winds over 100 miles an hour, authorities were unaware of the magnitude so no evacuation procedures were instituted and very few precautions were taken. As a result over 600 people lost their lives and tens of thousands were left homeless. Wind, rain and flash flooding wiped out trees, church steeples and buildings, leaving behind nearly $400 million in damage.

November 3, 1927 - After a wet October rivers were swollen and the ground was saturated. Nine inches of rain fell in a thirty-six hour period and horrendous flooding began. Though all of New England was affected, Vermont was devastated. The state flooded from Newport to Bennington, with the Winooksi River Valley the hardest hit. Eighty-five people died and 9,000 were left homeless. Many of Vermont’s roads and over 1,200 bridges were washed away. The
great Flood of 1927 would change Vermont forever as communities turned to the state, and the state turned to the federal government for assistance.

Sources used
Local town knowledge and records.
FEMA website for past Presidential Declarations
http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~ShowEvent~307631

REGIONAL SEVERE WINTER STORM
The Region has a long history of severe winter storms and blizzards and usually experiences at least one or two Nor’easters each year with varying degrees of severity. There have been 114 winter storms in the Region since March 1960 that have resulted in $5,133,582.00 in property damages. A typical event begins as a low-pressure system that moves up the Atlantic Coast on a December morning and into the Canadian Maritimes dumping heavy snow across parts of Vermont. Snow typically begins in the morning and then changes over to sleet and rain in the valleys during the day, and then changes back to snow during the evening. Snowfall accumulations are generally three to six inches in the valleys and 6 to 12 inches in the mountains.

LOCAL SEVERE WINTER STORM / ICE STORM
Description and Geographic Area of Hazard
Winter storms, with snow, ice and freezing temperatures in varying combinations, are fairly commonplace in Readsboro and occur throughout the town. Heavy wet snows of early fall and late spring, as well as ice storms, often result in loss of electric power, leaving people without adequate heating capability. The other threat from these storms is downed trees, resulting in power failures and impassable roads or driveways. An ice storm which crossed the region in December of 2008 caused widespread downed trees and power outages in Windham County. The total cost of damages across the region crossed the one million dollar threshold which allowed for a Presidential Disaster Declaration DR-1816. Damage across the region mostly consisted of roads being blocked for short periods of time due to downed trees and utility lines. Thousands lost power for varying lengths of time and several shelters were opened in Windham County. Compared to neighboring southern New Hampshire communities, Readsboro and Windham County fared relatively well from the damage inflicted by the Ice Storm.

Damage from heavy snow and ice storms can vary depending upon wind speeds, snow or ice accumulation, storm duration, and structural conditions (such heavy snow and ice accumulation on large, flat roofed structures). The assessed value of all residential and commercial property is ($63,961,969) Assuming a range of town-wide damage of 1% to 5%, a heavy snow or ice storm could result in ($639,619) to ($3,198,098) of total damage.

- Power Failure
  Power failure is a common condition associated to high winds or winter storm/ice storm and can occur anywhere in town. During Ice Storms the higher elevation locations in town are most susceptible to power failures. Potter Hill Rd., Bailey Hill Rd. and Bosley Hill Rd. are areas of town where it would be common for power line failures to occur and cause power disruptions to residential dwellings. Power failures may also result from disruptions in the New England or national power grid, as indicated by the widespread power outages in 2003. Dead or dying trees in close proximity to power lines pose a particular threat for power failure. Potential loss estimates are difficult to predict for power failures. They usually result in minor inconveniences to residents; however, longer duration events might result in the loss of perishable items and business losses. Power outages in winter months could result in the loss of home heating, bursting water pipes and resulting structural water damage.

Extent
The greatest anticipated extent of winter snowfall can be as high as the latest winter of 2010-2011 had record snowfall of 124.3 inches for the season. The severity or magnitude of winter
storm to occur in southeast Vermont can range from moderate to very severe. The southeastern region of VT typically receives over 60 inches of snowfall per year, and most Vermonter are prepared to handle large amounts of snowfall. But in the season of 2010-2011, the problem arose with finding locations to deposit huge quantities of snow during the season because there wasn’t the typical mid-season melt off.

**Probability**

The town hazard emergency committee has stated that winter storm/ice storm is Highly Likely to occur in Readsboro every winter.

**Past Occurrences**

Feb. 25, 2011 - A storm system produced a widespread swath of heavy wet snow across southern Vermont during the day Friday. Snowfall rates of 1 to 2 inches per hour occurred, beginning during the early morning hours, and persisting until late afternoon. Snowfall amounts of 12 to 17 inches occurred across much of southern Vermont. The heavy wet snow created treacherous travel conditions for both the morning and evening commutes on Friday, and also led to numerous school and business closings.

Jan. 19, 2011 - Snow and sleet accumulations across southern Vermont varied from 3 to 9 inches, with ice accumulations of up to a half of an inch.

Jan. 12, 2011 - Heavy snow fell across southern Vermont with snowfall accumulations ranging from 14 inches up to 3 feet. A mesoscale snow band set up across the western New England, including southern Vermont, Wednesday morning resulting in snowfall rates of 3 to 6 inches an hour.

December 2008 - The Town of Readsboro received approximately $70,000 from FEMA for the ice storm event of December 2008 and the town owned electric department received approximately $150,000 from FEMA for the same hazard event.

April 2007 – Heavy, wet snow fell which obstructed heavy rainfall from going into the ditches resulting in major gullies down the middle of the road and road wash outs.

November 22, 1997 - A low pressure system south of Long Island on November 22, 1997 produced heavy wet snow across southern Vermont. Snowfall averaged 4 to 8 inches in Bennington and Windham Counties. The heavy wet snow downed trees and power lines, which produced scattered power outages. The power outages were most widespread in Windham County.

Nov. 26, 1996 - On November 26, a low pressure system brought a combination of snow and freezing rain to southern Vermont. Over Bennington and Windham Counties, snow and heavy freezing rain downed trees and power lines and caused numerous accidents. Across southern Vermont approximately 10,000 customers lost power.

Jan. 2, 1996 - A major winter storm developed over the Gulf coast states on January 2nd and tracked northeast along the eastern seaboard during January 3rd. Heavy snow fell across southern Vermont with the average snowfall ranging from 10 to 12 inches.

Dec. 19, 1993, Low pressure moved through central Pennsylvania and off the New Jersey Coast on the morning of the 19th resulting in 3 to 6 inches of snow across parts of southern Vermont. Some of the larger snowfall accumulations included: 6 inches at Woodford, Readsboro and Vernon; and 5 inches at Shaftsbury.

There are no recent records of ice jams in Readsboro.
REGIONAL HIGH WIND / TROPICAL STORM / HURRICANE

Windstorms are high-wind events that are sufficient enough to cause damage to property and can occur at anytime during a year. These include high winds in conjunction with a thunderstorm and high winds that sweep through the Region after the passage of a weather front. During the past forty-six (46) years, the Region has had seventy (70) windstorms that have caused significant damages.

LOCAL HIGH WIND / TROPICAL STORM / HURRICANE

Description and Geographic Area of Hazard

High wind events are highly likely in Readsboro, resulting in damage in limited areas. The most likely local threats for high winds are from nor’easters, hurricanes, downbursts or wind shear. Trees downed by high winds can block roads, and down power and communications lines. Mobile home parks and houses on ridge lines are at greater risk from wind damage. Most high winds events in Readsboro have resulted in minor damage from downed trees and power lines.

Extent

Based on past occurrences the Town of Readsboro may anticipate winds in excess of 50 mph to affect the region due to low pressure systems coming out of the Canadian zone, or high pressures coming off the Gulf Coast. Extent/magnitudes of Hurricanes and Tropical Storms are ranked using the Saffir-Simpson Scale in the Western Hemisphere, as follows: CAT1=74-95 mph winds, CAT2=96-110 mph winds, CAT3=111-129 mph winds, CAT4=130-156 mph winds, Tropical Storm=39-73 mph winds, Tropical Depression=0-38 mph winds.

Probability

The town hazard emergency committee has stated that high winds are Highly Likely to occur in Readsboro based on past occurrences.

Past Occurrences

July 2012 - Microburst and/or straight line winds blew through Tunnel Street in the village of Readsboro and took down trees and a high voltage power line.

November 2012 – Hurricane Sandy caused some of the elevated areas of the town to lose power.

Aug. 28, 2011 - Tropical Storm Irene tracked north northeast across eastern New York and western New England during Sunday, August 28th, producing widespread flooding, and damaging winds across the region. Strong winds occurred across southern Vermont, with frequent wind gusts of 35 to 55 mph, along with locally stronger wind gusts exceeding 60 mph. The strongest winds occurred from the north to northeast during the morning hours, then from the west to northwest during Sunday evening. The combination of strong winds, and extremely saturated soil led to numerous downed trees and power lines across the region. This also resulted in widespread long duration power outages. In particular, the approximate number of customers affected by power outages included: Windham County, 18000.

Mar. 10, 2002 - The pressure gradient between deep low pressure over Ontario, and high pressure off the southeast coast, produced a strong southerly flow across southern Vermont on the evening of March 9. Then, a strong cold front moved across the region shortly after midnight, early on March 10th. A line of showers and embedded thunderstorms accompanied the front. Strong winds ahead of and along the front produced some damage across Windham.
County. Law enforcement personnel reported a large number of trees and power lines down throughout the county.

Nov. 27, 1997 - The passage of a cold front produced strong winds across southern Vermont during the early morning hours of November 27. Winds gusting to 40-50 miles an hour downed trees and power lines in Bennington and Windham Counties. Approximately 1,500 customers lost power for a six to eight hour period.

Jan 19, 1996 - An intense area of low pressure located over the Mid-Atlantic Region on Friday morning January 19th produced damaging winds across southern Vermont. This storm was associated with a strong southerly flow which resulted in scattered reports of downed trees, limbs and power lines.

Feb. 24, 1996 - A rapidly deepening low pressure system moved from southern New Jersey northeast to northern Maine by the morning of February 25. This system brought damaging winds to southern Vermont including Bennington and Windham counties, which downed many trees across the area and produced scattered power outages.

Jul 20, 1996 - An unusually intense low pressure system tracked across the northern Great Lakes to Quebec, Canada during July 19 and 20. The system generated strong northwest winds, which downed trees and power lines over parts of Windham County in southern Vermont.

July 1995 - High wind-shear occurred in town, which resulted in numerous road obstructions, tree destruction, and damage to town highway #2.

Sept. 21, 1938 - A hurricane Igor hit the region of Southeast Vermont to include the Town of Readsboro, paralyzing it for weeks. As it was coming, packing winds over 100 miles an hour, authorities were unaware of the magnitude so no evacuation procedures were instituted and very few precautions were taken. As a result over 600 people lost their lives and tens of thousands were left homeless. Wind, rain and flash flooding wiped out trees, church steeples and buildings, leaving behind nearly $400 million in damage.

Sources used
Local knowledge
http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~ShowEvent~307631

Assessing Vulnerability: Overview

Methodology
A vulnerability analysis for each community begins with an inventory of possible natural hazards and an assessment of the risk that they pose. These are the questions to be answered. What hazards can affect your community? How bad can it get? How likely are they to occur? What will be affected by these hazards? How will these hazards affect you? The magnitude (percentage of the community affected) of the impact of the hazard can be classed as follows:

- Negligible: < 10% of properties damaged/Minimal disruption to quality of life.
- Limited: 10% to < 25% of properties damaged/Loss of essential facilities/services for up to 7 days/few (< 1% of population) injuries possible.
- Critical: 25% to 50% of properties damaged/Loss of essential facilities/services for > 7 days < 14 days/Major (< 10% of population) injuries/few deaths possible.
- Catastrophic: > 50% of properties damaged/loss of essential facilities/services for > 14 days/Severe (> 10% of population) injuries/multiple deaths possible.
The frequency of occurrence (Likelihood) is classified as shown:

- Unlikely: < 1% probability in the next 100 years.
- Possible: 1% to 10% probability in the next year, or at least one chance in the next 100 years.
- Likely: 10% to 100% probability in the next year, or at least one chance in the next 10 years.
- Highly Likely: Near 100% probability in the next year.

Additionally, seasonal patterns that may exist are considered, what areas are likely to be affected most, the probable duration of the hazard, the speed of onset (amount of warning time taking into consideration the existing warning systems).

The combination of the magnitude of the hazard and the frequency was used to determine the community vulnerability as HIGH, MODERATE or LOW. For example, a flood event is highly likely (nearly 100% probability in the next year) in many communities but the degree of impact varies. A highly likely flood with critical or catastrophic impact rates the community vulnerability as HIGH. Another community with a highly likely or likely (at least one chance in the next 10 years) flood with a limited impact would receive a vulnerability rating of MODERATE. The vulnerability of a community having the occurrence of an event as possible or unlikely with limited or negligible impact would be LOW.

<table>
<thead>
<tr>
<th>Likelihood:</th>
<th>Impact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>U = unlikely</td>
<td>N = negligible</td>
</tr>
<tr>
<td>P = possible</td>
<td>L = limited</td>
</tr>
<tr>
<td>L = likely</td>
<td>CR = critical</td>
</tr>
<tr>
<td>HL = highly likely</td>
<td>CA = catastrophic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Possible Hazard</th>
<th>Likelihood</th>
<th>Impact</th>
<th>Community Vulnerability</th>
<th>Most vulnerable facilities and populations</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Winds/Tornado/</td>
<td>HL</td>
<td>L</td>
<td>Moderate</td>
<td>Residences, Businesses, Roads, and Utilities, Bridges, Culverts</td>
</tr>
<tr>
<td>Microburst/Hurricane</td>
<td></td>
<td></td>
<td></td>
<td>Town-wide</td>
</tr>
<tr>
<td>Flood</td>
<td>HL</td>
<td>L</td>
<td>Moderate</td>
<td>Low lying hills, West Branch and South Branch, Deerfield River</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Corridor, Drainage Ditches, Beaver Brook</td>
</tr>
<tr>
<td>Winter &amp; Ice Storm</td>
<td>HL</td>
<td>L</td>
<td>Moderate</td>
<td>Roads, Utilities, Bridges, Town-wide</td>
</tr>
<tr>
<td>Earthquake</td>
<td>U</td>
<td>CR</td>
<td>Low</td>
<td>Town-wide</td>
</tr>
<tr>
<td>Drought</td>
<td>U</td>
<td>L</td>
<td>Moderate</td>
<td>Residents, Farms, Businesses</td>
</tr>
<tr>
<td>Wildfire</td>
<td>U</td>
<td>L</td>
<td>Moderate</td>
<td>Residents, Businesses</td>
</tr>
<tr>
<td>Landslide</td>
<td>U</td>
<td>L</td>
<td>Low</td>
<td>Roads</td>
</tr>
</tbody>
</table>

Assessing Vulnerability: Addressing Repetitive Loss Properties

According to the VT State Hazard Mitigation Officer, Readsboro has no repetitive loss properties.

The definition of severe repetitive loss as applied to this program was established in section 1361A of the National Flood Insurance Act, as amended, 42 U.S.C. 4102a. An SRL property is defined as a residential property that is covered under an NFIP flood insurance policy and:

(a) That has at least four NFIP claim payments (including building and contents) over $5,000 each, and the cumulative amount of such claims payments exceeds $20,000; or
(b) For which at least two separate claims payments (building payments only) have been made with the cumulative amount of the building portion of such claims exceeding the market value of the building.

For both (a) and (b) above, at least two of the referenced claims must have occurred within any ten-year period, and must be greater than 10 days apart. http://www.fema.gov/severe-repetitive-loss-program

Assessing Vulnerability: Identifying Structures

Market value (total) of structures according the Grand List in Readsboro is $94,000,000.

Below is a list of the most critical structures in Readsboro, which are not in the floodplain.

Town Office, Readsboro Village
Fire Department, Readsboro Village
Central School, Readsboro Village
Town Garage, Readsboro Village
Water Treatment Plant
Electrical Barn

The following buildings are Historical:

- Methodist Church, Heartwellville
- Old Coach Inn, Heartwellville
- First Baptist Church, Readsboro Village
- Old Wesleyan Methodist Church, Readsboro Village
- Readsboro Inn and Hardware Store
- E.J. Bullock Building
- Old Bee Hive
- Tunnel Street Tenement, Readsboro Village

The maps on this page are the most recent (2010) mapped information for Readsboro’s Town Plan, and are current.
Assessing Vulnerability: Analyzing Development Trends

Below are figures taken from census.gov showing the population change in Readsboro from 1990 census to the 2010 census.

<table>
<thead>
<tr>
<th>Town name</th>
<th>County</th>
<th>1990 Total</th>
<th>2000 Total</th>
<th>90-00 Absolute Change</th>
<th>90-00 % Change</th>
<th>2010 Total</th>
<th>00-10 Absolute Change</th>
<th>00-10 % Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>READSBORO</td>
<td>Bennington</td>
<td>762</td>
<td>805</td>
<td>43</td>
<td>5.6</td>
<td>763</td>
<td>-42</td>
<td>-5</td>
</tr>
</tbody>
</table>

Presently there isn’t any development happening in Readsboro that would have any kind of impact on safety, health or general welfare in the Village.

Approximately 650 acres of private ownership land was recently transferred to the Green Mountain National Forest, making that land undevelopable.

MITIGATION STRATEGY

Local Hazard Mitigation Goals

The Hazard Mitigation Goals as outlined below were developed by consensus among the emergency management committee during meetings for the Town of Readsboro local hazard mitigation plan. The specific goal listed was determined during a site visit with Dr. Richard Downer, FEMA, on December 19, 2012.

Problem Statement: There is inadequate documentation of incidents on infrastructure and homes as they occur any given year, due to natural hazards or man-made hazards.

Goal: Train town personnel to include; road crews and office staff to take time and realize the importance of establishing an administrative role to document maintenance, repairs, and improvements to infrastructure so that future funding can be identified and to mitigate future losses. The town has a database to track road and culvert maintenance, but it needs to invest in professional development so staff is trained to do the documentation.

General Ongoing Goals:

- Reduce the loss of life and injury resulting from all hazards.
- Reduce the impact of hazards on the town’s water bodies, natural resources, and historic resources.
- Reduce the economic impacts from hazard events.
  - Minimize disruption to the road network and maintain access,
  - Mitigate financial losses incurred by municipal, residential, industrial, agricultural and commercial establishments due to disasters,
  - Ensure that community infrastructure is not significantly damaged by a hazard event.
  - Being proactive in implementing any needed mitigation projects for public infrastructure such as roads, bridges, culverts, municipal buildings, etc.
- Encourage hazard mitigation planning to be incorporated into other community planning projects, such as the Town Plan, Capital Improvement Plan, and Town Basic Emergency Operation Plan
- Ensure that members of the general public continue to be part of the hazard mitigation planning process.
Identification and Analysis of Mitigation Actions

The Readsboro Hazard Mitigation Committee identified the following new hazard mitigation activities based on an evaluation of hazard event vulnerability not addressed by existing hazard mitigation initiatives and the feasibility of new activities.

Readsboro had one phase planned to remedy this problem. The project replaced approximately 1,200 ft. of 6” water main with a 12” water main to increase water flows for firefighting purposes, and to extend across the Rt. 100 bridge to the center of town, giving the village center a compliant fire hydrant. This was rectified in October 2013.

The Town is in the process of investing $1.3 million in the municipal water system. Water System Improvements involve the upgrade of the existing water treatment facility components and the replacement of the existing 6” cast iron water main with approximately 2,170 feet of new 12” Ductile Iron, and one residential booster pump station. This is 96% complete at this time. Final completion is expected in the spring of 2014.

Major repairs, in direct response to Hurricane Irene, include repair and relocation of a municipal water pipe from within the river to span the Lions Club foot bridge, and the emergency reconstruction of Bridge #31 over the west branch of the Deerfield River. Reconstruction will include raising the stream bed elevation and lining the stream banks with type IV stone fill and mortaring in place. This project was completed in May 2013.

The town is also in serious need of culvert improvements through upsizing existing culverts. There is the need for a culvert improvement at Rt. 8 and County Land in the Heartwellville section of town, which is prone to flooding after receiving 4” of rain in a 24 hour period. The flooding makes the County Lane a dead end road and impassable causing basement flooding in nearby residences. This project is pending funding.

Another pressing problem in Readsboro is the lack of back-up energy in the case of frequent power outages. During the ice storm of 2008, approximately half the population was without power. The generator at the fire house is over 30 years old and needs to be replaced. Strong winds have been increasing through out the years, causing power outages as often as two or three times a year. All of the critical facilities in town need, at the very least, transfer switches installed. In the case of an emergency, facilities that would be used as shelter include the Catholic Church and Central School. Other critical facilities include the Town Garage, General Store/gas station, and the apartments on Tunnel Street which house many elderly folks using oxygen machines. If transfer stations were installed in numerous facilities, it is possible the town could suffice with two new roving generators.

Cellular service is most often not available in town, forcing emergency communication to be dependent on land lines. There is also a lack of Internet service. For this reason, the town would be better served by a computer generated multiple phone dialer system to report hazards to the general population. Ideally, the town needs a cell tower. This project is pending funding.

The committee has met since TS Irene in the year 2012 to assess repercussions of that event. They will continue to meet during the year 2013 to continue assessing mitigation strategies as they are completed and determine if new strategies need to be put in place as the land changes with future hard rains. The vast soil erosion is still a high concern which may be complicated with the annual spring-thaw and high-river banks.
Identification and Analysis of Mitigation Actions: National Flood Insurance Program (NFIP) Compliance

The Town of Readsboro participates in the NFIP. The DFIRMs for Bennington County were released January 14, 2011. Readsboro has provided the new maps for public review and comment. A public hearing took place on Jan. 5, 2012 for making comments and adoption of an Interim Floodplain Ordinance for the town. One of the goals of the ordinance is to document the merger of the Village of Readsboro with the Town of Readsboro (1986 voted the people of Readsboro), showing that the Town is responsible for all land use within its boundaries. The town held a hearing for the inundation flood maps on January 5, 2012 and also made the Hazard Mitigation Plan available for public comment at that hearing. They passed an Interim Floodplain Ordinance that will be good for two years. The public meeting was advertised in newspapers in three locations. People from state DEC and ANR came for the public hearing. The towns flood regulations will be administered and enforced by the zoning administrator. Additionally, Readsboro has no repetitive loss properties per FEMA’s definition.

HMGP applications from Tropical Storm Irene substantial damage homes have been approved and the Town will no longer have structures in the floodplain.

Implementation of Mitigation Actions

Mitigation actions are listed below by hazard event. The following criteria were used in establishing project priorities. The ranking of these criteria is largely based on the best available information and best judgment as many projects are not fully scoped out at this time.

- Does the action reduce damage?
- Does the action contribute to community objectives?
- Does the action meet existing regulations?
- Does the action protect historic structures or structures critical to town operations?
- Can the action be implemented quickly?
- Is the action socially acceptable?
- Is the action technically feasible?
- Is the action administratively possible?
- Is the action politically acceptable?
- Is the action legal?
- Does the action offer reasonable benefits compared to its cost of implementation?
- Is the action environmentally sound?

The following list of mitigation strategies was put together in December, 2010 and again after TS Irene occurred in August, 2012, by the Planning Commission of Readsboro, VT. At the time of applying for FEMA’s PDM-C, FMA or HMGP grant programs, each project listed below will undergo full benefit-cost analysis (BCA) methodology, version 4.5 or higher to maximize savings.

The Table of Actions (Cost / Benefit) addresses the priorities for the mitigation strategies in the Matrix below. Priorities for the strategies did not change, however progress has been made and completed priorities are indicated.

Table of Actions - Costs

<table>
<thead>
<tr>
<th>Cost Level</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>= $100,000</td>
</tr>
<tr>
<td>Medium</td>
<td>$25,000 – 100,000</td>
</tr>
<tr>
<td>Low</td>
<td>&lt; $25,000</td>
</tr>
</tbody>
</table>
### Table of Actions – Benefits

<table>
<thead>
<tr>
<th>High Public Safety</th>
<th>Medium Infrastructure/General Maintenance</th>
<th>Low Aesthetics/Fuctionality</th>
</tr>
</thead>
</table>

#### Mitigation Actions:

<table>
<thead>
<tr>
<th>HAZARD</th>
<th>ACTION</th>
<th>RESPONSIBLE PARTY</th>
<th>TIMEFRAME</th>
<th>FUNDING SOURCE</th>
<th>M =MITIGATION P =PREPARED-NESS</th>
<th>COST / BENEFIT</th>
<th>PROJECT PRIORITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH WINDS</td>
<td>Potentially Hazardous Tree Assessment – Remove dead or dangerous tree limbs near power lines</td>
<td>Road Foremen</td>
<td>Continual Basis - Annually</td>
<td>Highway Dept. Budget</td>
<td>P</td>
<td>Low / High</td>
<td>Medium</td>
</tr>
<tr>
<td>HIGH WINDS</td>
<td>Anchoring of outdoor ancillary structures such as generators and heat tanks on buildings</td>
<td>Selectboard / Fire Department</td>
<td>2 years</td>
<td>General Town Funding</td>
<td>M</td>
<td>Low / High</td>
<td>Medium</td>
</tr>
<tr>
<td>HIGH WINDS</td>
<td>Assess policies and actions in the Town Plan regarding building codes and practices related to impacts of high wind</td>
<td>Planning Commission</td>
<td>2 years</td>
<td>Town Funding or Municipal Planning Grant</td>
<td>P</td>
<td>Low / High</td>
<td>Medium</td>
</tr>
<tr>
<td>WINTER STORM / ICE STORM</td>
<td>Installation of 3 additional dry-hydrants to allow access to fire ponds and water sources.</td>
<td>Selectboard</td>
<td>2013</td>
<td>VT Rural Fire Protection Task Force Grant Funding</td>
<td>M</td>
<td>Low / High</td>
<td>66% Complete</td>
</tr>
<tr>
<td>WINTER STORM / ICE STORM</td>
<td>Potentially Hazardous Tree Assessment – Remove dead or dangerous tree limbs near power lines</td>
<td>Road Foreman</td>
<td>Continual Basis - Annually</td>
<td>Highway Dept. Budget</td>
<td>P</td>
<td>Low / High</td>
<td>Medium</td>
</tr>
<tr>
<td>WINTER STORM / ICE STORM</td>
<td>Community outreach and education to citizens teaching the importance of keeping emergency kits in cars, at home, etc. Education to location of emergency shelter. Fire Dept. does system checks or resources prior to storms</td>
<td>Emergency Management Coordinator, 911 Coordinator, Selectboard, Planning Commission</td>
<td>2014</td>
<td>General Town Funding</td>
<td>P</td>
<td>Low / High</td>
<td>Medium</td>
</tr>
<tr>
<td>WINTER STORM / ICE STORM</td>
<td>On January 5, 2012 the Town of Readsboro held a public meeting to educate townspeople of the NFIP program, providing information on building methods to reduce flood, wind, ice and snow load damage.</td>
<td>Emergency Management Coordinator, 911 Coordinator, Selectboard, Planning Commission</td>
<td>Continual Basis - Annually</td>
<td>Town Funding or Municipal Planning Grant</td>
<td>M</td>
<td>Low / High</td>
<td>High</td>
</tr>
<tr>
<td>FLOOD</td>
<td>Culvert upgrade at Rt. 8 and County Lane in Heartwellville</td>
<td>Selectboard, Department of Public Works</td>
<td>2014-15</td>
<td>HMGP Grant Funding or VTrans funding</td>
<td>M</td>
<td>Medium / Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>FLOOD</td>
<td>Embankment stabilization of washed out river bank that exposed the bridge footing to bridge #31</td>
<td>Department of Public Works</td>
<td>2012</td>
<td>HMGP Grant Funding or Highway Dept. Budget</td>
<td>M</td>
<td>High / High Completed</td>
<td>Complete</td>
</tr>
<tr>
<td>FLOOD</td>
<td>Reinforcement of the retaining wall behind the Town Garage</td>
<td>Selectboard</td>
<td>2014</td>
<td>HMGP Grant Funding or Highway Dept. Budget</td>
<td>M</td>
<td>Low / High 90% Completed</td>
<td>High</td>
</tr>
<tr>
<td>FLOOD</td>
<td>Ruba Drive Culvert Repair Project</td>
<td>Town Administrator</td>
<td>2014</td>
<td>FEMA HMGP</td>
<td>M</td>
<td>Medium / High</td>
<td>High</td>
</tr>
<tr>
<td>FLOOD</td>
<td>Flood Bylaws were updated and adopted in May 2013</td>
<td>Zoning Administrator and Planning Commission</td>
<td>2011-2013</td>
<td>Municipal Planning Grant</td>
<td>M</td>
<td>Low / High Completed</td>
<td>High</td>
</tr>
<tr>
<td>HAZARD</td>
<td>ACTION</td>
<td>RESPONSIBLE PARTY</td>
<td>TIMEFRAME</td>
<td>FUNDING SOURCE</td>
<td>M =MITIGATION P =PREPAREDNESS</td>
<td>COST / BENEFIT</td>
<td>PROJECT PRIORITY</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------</td>
<td>---------------------------------------</td>
<td>----------------</td>
<td>----------------------------------------------------</td>
<td>-------------------------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>FLOOD</td>
<td>Acquisition/Buy Out - 62 School Street, Readsboro, VT 05350. Currently this parcel is owned by Barbara Keith. The total project cost is: $ 146,768.00</td>
<td>Selectboard</td>
<td>2012/2013</td>
<td>Application submitted to HMGP Grant Funding under DR-4022</td>
<td>M</td>
<td>High / High Approved / Completed</td>
<td>High</td>
</tr>
<tr>
<td>FLOOD</td>
<td>Acquisition/Buy Out - 40 School Street, Readsboro, VT 05350. Currently this parcel is owned by Richard &amp; Mary Lemaire. This property is not inhabited. The total project cost is: $ 105,913.00</td>
<td>Selectboard</td>
<td>2012/2013</td>
<td>Application submitted to HMGP Grant Funding under DR-4022</td>
<td>M</td>
<td>High / High Approved / Completed</td>
<td>High</td>
</tr>
<tr>
<td>FLOOD</td>
<td>Acquisition/Buy Out - 42 School Street, Readsboro, VT 05350. Currently this parcel is owned by Rodney &amp; Holly Caruso. This property is not inhabited. The total project cost is: $ 118,343.00</td>
<td>Selectboard</td>
<td>2012-2014</td>
<td>Application submitted to HMGP Grant Funding under DR-4022</td>
<td>M</td>
<td>High / High Pending homeowner disposition</td>
<td>High</td>
</tr>
<tr>
<td>FIRE</td>
<td>Phase One &amp; Two: replace approx. 1,200 ft. of 6&quot; water main with 12&quot; water main to increase water flow for firefighting purposes</td>
<td>Selectboard</td>
<td>Funding approved 2013</td>
<td>Grant Funding/other sources</td>
<td>M</td>
<td>High / High 96% Completed</td>
<td>High</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Sidewalk replacement project in Village, 4,016 Feet</td>
<td>Selectboard</td>
<td>2014 – 2016</td>
<td>VTrans</td>
<td>P</td>
<td>Medium / High / Completed</td>
<td>High</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Repair of Bridge #25, on Rt. 100</td>
<td>AOT</td>
<td>2016</td>
<td>AOT</td>
<td>M</td>
<td>High / High / Completed</td>
<td>High</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Safe Routes to School – bulb out for traffic calming, safety for pedestrians going to school</td>
<td>Selectboard</td>
<td>2013</td>
<td>Safe Routes to School/Transportaion Alternatives Grant</td>
<td>M</td>
<td>Medium / High Medim</td>
<td></td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Installation of Cell Tower in Town</td>
<td>Planning Commission</td>
<td>2014</td>
<td>VTel or AT&amp;T</td>
<td>P</td>
<td>Low / High Pending</td>
<td>High</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Installation of transfer switches on critical facilities: Fire Station, Catholic Church, Central School, Town Garage and Tunnel Street</td>
<td>Selectboard</td>
<td>2013-2014</td>
<td>General Town Funding</td>
<td>P</td>
<td>Low / High</td>
<td>50% Completed</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Purchase of two new generators and mobile platforms for revolving usage.</td>
<td>Selectboard Water &amp; Sewer Department</td>
<td>2013-2014</td>
<td>Red Cross Generator Grant Fund</td>
<td>P</td>
<td>Medium / Low</td>
<td>Low</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Inventory of vulnerable populations, and locations plotted on map.</td>
<td>Emergency Management Coordinator 911 Coordinator</td>
<td>ongoing</td>
<td>General Town Funding</td>
<td>P</td>
<td>Low / High Medium</td>
<td></td>
</tr>
<tr>
<td>WINTER STORM / ICE STORM</td>
<td>Red Cross Shelter Initiative Training -Provides cots, blankets &amp; pillows for emergency shelter.</td>
<td>Emergency Management Coordinator 911 Coordinator</td>
<td>2012</td>
<td>VT Emergency Management</td>
<td>P</td>
<td>Low / High Completed 2013</td>
<td>50% Completed</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Purchase of storage unit for emergency shelter items.</td>
<td>Emergency Management Coordinator 911 Coordinator</td>
<td>2012</td>
<td>VT Emergency Management</td>
<td>P</td>
<td>Low / High Completed</td>
<td>High</td>
</tr>
<tr>
<td>HAZARD</td>
<td>ACTION</td>
<td>RESPONSIBLE PARTY</td>
<td>TIMEFRAME</td>
<td>FUNDING SOURCE</td>
<td>M =MITIGATION P =PREPAREDNESS</td>
<td>COST / BENEFIT</td>
<td>PROJECT PRIORITY</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>-----------</td>
<td>------------------------</td>
<td>-------------------------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>As an additional method of communication, IP Network Extenders have been added to the Town Offices and the Fire House to allow for 3G cell phone services within these locations</td>
<td>Selectboard</td>
<td>2012</td>
<td>General Town Budget</td>
<td>M</td>
<td>Low / High</td>
<td>Completed</td>
</tr>
<tr>
<td>ALL HAZARDS</td>
<td>Town is in the process of becoming NIMS Compliant and adoption. Revising the American Red Cross Survey, Training Individuals on Red Cross Shelter procedures. Elected and Appointed Officials will have taken ICS 402. Highway Department will have taken NIMS ICS 100 and 200. All employees will have taken NIMS 100. In the process of creating a database that solicits voluntary information from residents to include special needs/aids/resources that residents need or may provide. Also researching alternate means of communication – cell phone and Internet service providers.</td>
<td>Selectboard</td>
<td>2013</td>
<td>General Town Budget</td>
<td>M</td>
<td>Low / High 82%</td>
<td>High</td>
</tr>
</tbody>
</table>

At the time of applying for FEMA’s PDM-C, FMA or HMGP grant programs, each project listed below will undergo the full benefit-cost analysis methodology (BCA version 4.5 and higher) to maximize savings.

**Fluvial Erosion Hazard Zones (FEH)**

Fluvial Erosion Mapping has not yet been done for the Town of Readsboro. In acknowledgement that existing technical resources and land use guidance or regulatory authorities, such as the National Flood Insurance Program, do not adequately identify high risk areas for development along riparian corridors with respect to fluvial erosion hazards it is therefore deemed a high priority of this Hazard Mitigation Plan to provide the technical support for, and to develop and implement protection mechanisms at the local level that will serve to avoid land use investments that would be, over time, endangered by, incompatible or in conflict with fluvial adjustment and erosion processes. Fluvial assessments shall be conducted as guided by the VT ANR Fluvial Geomorphic Assessment Protocols, in the Town of Readsboro, as VT ANR deems necessary.

No later than one year after completion of the fluvial geomorphic assessment, the town, under contract with the Regional Planning Commission, or other GIS mapping service provider, shall develop a fluvial erosion map. Such map shall be consistent with mapping standards and protocols developed by VT ANR.

The Windham Regional Commission has recently been awarded grant funding for FY 2013-2014 under the Ecosystem Restoration Grant Program to conduct Phase 1 & Stream Geomorphic Assessments on the Winhall River, Wardsboro Brook and the Green River, all within the Windham Region, however not located in the vicinity of Readsboro. SGA’s were conducted on the Deerfield River with a final report published in 2006.
PLAN MAINTENANCE PROCESS

Monitoring, Evaluating, and Updating the Plan

The Town of Readsboro will continue to work with the Windham Regional Commission to monitor, evaluate, and update the plan throughout the next 5 year cycle. A review of the plan will take place each year by the emergency planner at the Windham Regional Commission along with the Town’s emergency planning committee to update the plan after any FEMA disaster declaration as well as any funding received from FEMA, to record any hazard related events, or to determine if the town is interested in applying for grant funding. Regular review of the plan will take active involvement on the part of the Readsboro emergency committee that includes the Road Foreman, Fire Chief, Selectboard and members of the Planning Commission, working with Windham Regional Commission staff to identify and plan for ongoing hazard mitigation work and coordination among stakeholders to identify structures and engineering projects that can help mitigate future hazardous events; e.g. bridge and culvert replacements, road replacements and grading, as well as any repetitive loss structures that may be in the Special Flood Hazard Area as identified on FEMA Flood Maps (e.g. FHBM and FIRM maps). Public input would also be included. Many other stakeholders in the Town of Readsboro and neighboring communities will be invited to participate in the ongoing update/review process of this Hazard Mitigation Plan. Historians, School Board Members, local business owners, and state agencies such as the Agency of Natural Resources and VT Department of Fish and Wildlife will be asked to be involved.

Additionally, all plan review meetings will be publicized and open to the public. Public hearings will be held prior to any significant revisions to the plan. The plan and any proposed revisions will be on the jurisdiction’s website with information on how the public can direct questions/comments to the planning team.

Incorporating into Existing Planning Mechanisms

The following policies, programs and activities related to hazard mitigation are currently in place and/or being implemented in the town of Readsboro. The Committee analyzed these programs for their effectiveness and noted improvements needed. Readsboro uses all of the plans listed below to help plan for current and future activities with the town. For example: the Basic Emergency Operation Plan has a contact list that is used for response purposes in the case of a hazard event. The Town Plan directs visions and goals that include Natural Resources and Land-Use. Road Standards are followed by the town and they do an annual culvert and bridge inventory that is mapped by the WRC. The town is compliant with the NFIP.

Readsboro recognizes that the Hazard Mitigation Plan is the primary driver for monitoring, evaluating, and updating other planning mechanisms utilized by the Town, including driving policies, water/sewer use, budget, job descriptions, maintenance priorities. In essence, hazard planning in Readsboro informs and promotes governance of all Town organizations and boards/committees. Accountable for this planning process include; Planning Commission, Zoning Administrator, Town Administrator, Selectboard, Public Works and Fire.

<table>
<thead>
<tr>
<th>Type of Existing Protection</th>
<th>Description</th>
<th>Effectiveness/Enforcement/Hazard that is addressed</th>
<th>Gaps in Existing Protection/Improvements Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Town Basic</td>
<td>Municipal procedures for Incident Command;</td>
<td>LEOP completed every</td>
<td></td>
</tr>
</tbody>
</table>

Page 25
<table>
<thead>
<tr>
<th>Emergency Operation Plan</th>
<th>emergency response</th>
<th>Hazard Annexes included</th>
<th>year by June 1st, and adopted by Town Select board</th>
</tr>
</thead>
<tbody>
<tr>
<td>School Emergency Response Protocol</td>
<td>School procedures for emergency response</td>
<td>School Crisis Plan</td>
<td>School Crisis Planning Team Facilitator currently meeting with schools and First Responders to assess gaps and offer solutions</td>
</tr>
<tr>
<td>Mutual Aid – Emergency Services</td>
<td>Agreement for regional coordinated emergency services</td>
<td>Keene (NH) Mutual Aid – written agreement/contract for Fire/Ambulance and HazMat</td>
<td>None identified</td>
</tr>
<tr>
<td>Mutual Aid – Public Works</td>
<td>Agreement for regional coordinated emergency highway maintenance services</td>
<td>Unknown whether Public works MAA in place</td>
<td>None identified</td>
</tr>
<tr>
<td>Road Standards</td>
<td>Design and construction standards for roads and drainage systems</td>
<td>Generally Vtrans Standards Bridge and Culvert Inventory work</td>
<td>No major gaps identified</td>
</tr>
<tr>
<td>Sewage Regulations</td>
<td>Regulates on-site sewage systems</td>
<td>State Regulations apply</td>
<td>None Identified</td>
</tr>
<tr>
<td>Flood Hazard Area Regulations</td>
<td>Regulates development in FEMA flood hazard areas</td>
<td>Town Zoning Bylaw attachment.</td>
<td>Presently being revised to include new FEMA DFIRM’s.</td>
</tr>
<tr>
<td>Site Plan Review (SPR)</td>
<td>Site development standards</td>
<td>Town Zoning Regulations</td>
<td>None Identified</td>
</tr>
<tr>
<td>Maintenance Programs</td>
<td>Bridge &amp; Culvert Inventory</td>
<td>Updated in 2006 Completed Annually</td>
<td>None Identified</td>
</tr>
<tr>
<td>Building Code</td>
<td>Regulates building construction standards</td>
<td>Through Labor and Industry</td>
<td>NA</td>
</tr>
<tr>
<td>Wetland protection – VT Wetland Rules</td>
<td>Protected by 1990 Vermont Wetland Rules</td>
<td>Protection of environment, water resources, wildlife, biota</td>
<td>None Identified</td>
</tr>
</tbody>
</table>

At the Town Meeting every March, policies and action items in the Town Plan are reviewed and integrated into hazard mitigation as needed. The Basic Emergency Operations Plan contact list is updated after Town Meeting each year, including updates to vulnerable geographic locations, as well as locations of vulnerable populations.
APPENDICES

*******************************************************************************

Appendix A: Sign-in Sheets

Sign in sheet from December 19, 2012 Meeting.

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliations – Please list all</th>
<th>Town where you live</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Shea</td>
<td>Town of Readsboro</td>
<td>Winchendon, MA</td>
</tr>
<tr>
<td>Teddy Hopkins</td>
<td>Selectboard member – Readsboro</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>David Marchegian</td>
<td>Fire Dept Planning Comm</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>Raymond Fields</td>
<td>Selectboard Chair, Fireman, Town of Readsboro</td>
<td></td>
</tr>
<tr>
<td>Deborah Calman</td>
<td>Selectboard Clerk</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>ROBERT MARECHIAK</td>
<td>RESIDENT</td>
<td>Readsboro</td>
</tr>
<tr>
<td>Forrest Hicks</td>
<td>RESIDENT 73 Branch</td>
<td>Readsboro</td>
</tr>
<tr>
<td>Susan Bailey</td>
<td>AOCB Planning Commission Chair</td>
<td>Readsboro, VT</td>
</tr>
<tr>
<td>Mary Lamaine</td>
<td>Home builder of 40 School Street</td>
<td>bank 200 during Tropical Storm Edna</td>
</tr>
<tr>
<td>Erin Gray</td>
<td>Resident 1456 Branch Hill</td>
<td>Readsboro</td>
</tr>
<tr>
<td>Robby Salamon</td>
<td>RESIDENT</td>
<td>Readsboro</td>
</tr>
</tbody>
</table>

readsboro, VT - HAZARD MITIGATION PLAN MEETING
December 19, 2012
Location: Readsboro Central School
Sign in sheet from October 2, 2010 Meeting.

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliations</th>
<th>Phone 1</th>
<th>Email</th>
<th>Phone 2</th>
<th>Email 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sankei Nakamitsu</td>
<td>Saratoga Fire Dept.</td>
<td>802-473-3919</td>
<td><a href="mailto:sankei.nakamitsu@gmail.com">sankei.nakamitsu@gmail.com</a></td>
<td>802-473-5999</td>
<td></td>
</tr>
<tr>
<td>Anthony Comeau</td>
<td>Select Fire Chief</td>
<td>802-473-3500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ronald Excess</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anton Bailey</td>
<td>Planning Commission</td>
<td>802-496-3000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neil Munchegi</td>
<td>Fire Chief</td>
<td>802-761-4911</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix B: Public Participation Means and Opportunity Documentation

PUBLIC INFORMATIONAL FORUM NOTICE AND ADOPTION OF
TOWN OF READSBORO SINGLE JURISDICTION HAZARD MITIGATION PLAN
TOWN OF READSBORO, VERMONT

Notice of Public Forum

The Town of READSBORO is holding a public forum for the consideration and adoption of the Town of Readsboro Single Jurisdiction Hazard Mitigation Plan, Town of Readsboro, Vermont. A public forum will be held at 6:45PM on Wednesday, December 19, 2012, at Readsboro’s Central School gymnasium located at 301 Phelps Lane; Readsboro, VT 05350. Copies of the proposed mitigation plan are available during the hours of business at the Town Offices at 301 Phelps Lane; Readsboro, VT 05350. They may also be viewed at https://readsborovt.org/

All town residents and surrounding town stake holders are encouraged to participate in a reflective recollection in planning of past and present hazards affect the town.
From: Debbie Cihlan
[mailto:spclerk@readsboro.vt.org]
Sent: Wednesday, November 28, 2012 3:30 PM
To: ‘torcoran@bemington.com’; ‘josiek1@yahoo.com’; ‘lorianshepard@live.com’; Kitty Sweet (Kitty.Sweet@state.vt.us);
Mike Shaughnessy (mbsgs@sover.net); whitinghamtownclerk@yahoo.com; Ron Hopkins (woodfordvt@comcast.net)
Cc: Mark Shea (admin@readsboro.org); David Marchegian; Raymond Ellers; Teddy Hopkins
Subject: Posting for Mitigation Plan for Town of Readsboro

Importance: High

Good Day:

We are having a hearing in the Town of Readsboro for a Public Information Forum Notice and Adoption of Town of
Readsboro Single Jurisdiction Hazard Mitigation Plan, Town of Readsboro, Vermont.

The notice is as follows:

Notice of Public Forum

The Town of READSBORO is holding a public forum for the consideration and adoption of a Town of Readsboro Single
Jurisdiction Hazard Mitigation Plan, Town of Readsboro, Vermont. A public forum will be held at 6:45PM on
Wednesday, December 19, 2012, at Readsboro’s Central School gymnasium located at 301 Phelps Lane; Readsboro, VT
05350. Copies of the proposed mitigation plan are available during the hours of business at the Town Offices at 301
Phelps Lane; Readsboro, VT 05350. They may also be viewed at https://readsboro.vt.org/

All town residents and surrounding town stake holders are encouraged to participate in a reflective recollection in
planning of past and present hazards affect the town.

A document for posting is attached for your convenience.

We thank you for taking the time from your very busy day to help us in this matter.

Best regards,

Debbie Cihlan
Selectboard Clerk
Town of Readsboro
PO Box 187
Readsboro VT 05350
phone: 802-423-5405
fax: 802-423-5423
web: https://readsboro.vt.org/
Appendix C: Letter from Green Mountain Engineering & Map showing Readsboro Water System Improvement locations

GREEN MOUNTAIN ENGINEERING, INC.
1439 South Brownell Road
Williston, VT 05495
(802) 862-5550 (Fax) 862-7398

October 12, 2010

Mr. Ray Eilers, Selectboard
Town of Readsboro
P.O. Box 187
Readsboro, VT 05350

RE: Project Description for Categorical Exclusion Request
GME Project No. 19-031

Dear Ray;

The proposed water system improvement project is located in Readsboro, Vermont along Vermont State Highway Route 100. The project involves the upgrade of the existing water treatment facility components, the replacement of two sections of existing six-inch cast iron water main with new 12-inch ductile iron, and the re-conditioning of the storage reservoir rooftop area, in an effort to improve several deficiencies of the water supply system.

The Water Treatment Facility upgrade involves the replacement of the pressure filters with like-kind, improvement of the chemical injection components to operate with flow-paced equipment, improvement of the electrical and plumbing systems in the existing building, and the inclusion of a telemetry system capable of transmitting and receiving data from the storage reservoir to improve control of the system. This component of the project will be constrained to the footprint of the existing building.

Additionally, there are two separate sections of six-inch water main that are proposed to be replaced, identified as Phase I and Phase II on the attached Site Plan A.1. The Phase I waterline replacement is located near the Grinitsa residence, beginning approximately 100 feet south of the Grinitsa home and continuing cross-country in a westerly direction across Grinitsa Farm Drive, then continuing west to a pipe intersection beneath Jarvis Hill Road. The proposed 12-inch water main shall continue northward following the Jarvis Hill Road alignment for approximately 300 feet to an existing hydrant. The total length of pipe to be replaced is approximately 800 feet and is constructed of 6-inch cast iron. The upgrade in this location is necessary to connect previous installations of 12-inch water main installed in the late 1980s.

Mr. Ray Eilers, Selectboard
October 12, 2010
Page 2

The Phase II waterline replacement is located from the intersection of Jarvis Hill Road and Main Street, and continues west along Vermont Route 100 (Main Street). The existing water main crosses the Deerfield River by way of suspended installation under the bridge, and continues west along Main Street within the Town Right-Of-Way for approximately 3,100 feet before crossing west branch of the Deerfield River to reach the Water Treatment Facility. The Phase II waterline replacement shall only continue to the intersection of Goodnow Street and Main Street, and then shall proceed south along Goodnow Street for approximately 250 feet to a fire hydrant located at the intersection of Goodnow and School Streets (see Site Plan).

An additional component of the project involves the re-conditioning of the storage reservoir rooftop area. The reservoir was constructed in 1988 and although it is still in good condition, the protective weatherproofing material has deteriorated from the harsh climate and is in need of replacement. The weatherproofing material will most likely be installed by brush application in multiple coats.

The majority of the project will be contained within the road R.O.W. or on Town property, with the exception of a small portion of the Phase I section, which shall be installed in the same location (within the easement) as the existing 6-inch water main.

If you have any questions, or need more information, please call me.

Sincerely,

GREEN MOUNTAIN ENGINEERING, INC.

[signature]

Jaskee L. Simpson, E.I.
Project Engineer
August 22, 2012 addendums.

October 17, 2012, Readsboro's Selectboard re-reviewed this plan and agreed to its contents.