

ADAMS COUNTY HAZARD MITIGATION PLAN
PLANNING COMMITTEE MEETING #3
MINUTES

Date: Monday, September 9, 2019
Time: 2:00 p.m.
Duration: 90 minutes
Location: Adams County Emergency Services
200 Greenmyer Lane
Gettysburg, PA, 17325

The Adams County Planning Committee met for the third time in the process to update its hazard mitigation plan on Monday, September 9, 2019, at Adams County Emergency Services. JH Consulting, LLC (JHC), the consultant hired to assist with the update, led the meeting.

The first item on the agenda was discussion about finalizing which hazards to include in the plan. To begin the meeting, committee members were given and encouraged to complete a hazard worksheet if they had not already done so. To complete the hazard discussion, the consultant asked the committee to recall their past experiences with each of the profiled hazards.

- **Dam Failure-** The committee did not recall any past dam failures, but did recall a potentially critical issue in a New Oxford dam. A representative from Waynesboro Borough in Franklin County, owner of the Antietam Dam, contacted the consultant regarding the dam. The structure sits in Hamiltonban Township, and the consultant briefed the committee on a spillway project at that location. The committee expressed concern about recent changes regarding dam regulations in Pennsylvania.
- **Drought-** The committee members recalled the extent of past droughts in their jurisdictions. They indicated that reservoirs had run low in the past, and recalled instances of water shortages, voluntary restriction, and forced restriction imposed during past periods of drought. The committee also indicated that well owners were under the same restrictions as those who use the public water supply, which has caused some confusion in the past. Drought conditions have also affected local commercial and industrial operations through reduced production.

- **Earthquake-** While the majority of the committee recalled experiencing earthquakes, they did not recall any damage associated with them.
- **Environmental Hazard: Hazardous Materials Release-** When asked about past experiences with hazardous materials releases, the committee brought up the various industries in the county that use hazardous materials regularly.
- **Extreme Temperature-** The committee recalled damage due to extreme temperature. The most notable and frequent damage mentioned was crop damage as the result of frost events in late spring.
- **Flood/Flash Flood/Ice Jam-** The committee recalled that some areas of the county, particularly East Berlin, Arendtsville, and Hamiltonban, seem to experience adverse effects of flood events more often than the rest of the county. The most memorable flood events were the June and September 1996 floods that heavily affected Gettysburg and Biglerville. The committee also noted that flash flooding seems to be on the rise in certain areas of the county, and it is causing significant impacts on infrastructure. Committee members also mentioned that the preliminary floodplain maps had been released, but received no public comment despite there being some questions on revised hazard areas.
- **Hailstorm-** The committee indicated that typical hail damage was not common or severe, but when applicable, it included vehicle damage, broken windows, and some roof damage.
- **Hurricane/Tropical Storm/Nor'easter-** Committee members recalled past experiences with hurricane/tropical storm/Nor'easter events. They noted that they experience flooding and heavy snowfall from these events and that some lead to infrastructure damage and power failure.
- **Invasive Species-** When asked if there were any invasive species that concerned them, the committee members provided several examples. Among the most mentioned were wild boars, stink bugs, gypsy moths, deer ticks (potentially spreading Lyme disease), oriental bittersweet, and oak wilt. All of these (excluding deer ticks) were identified as invasive species of concern by the Pennsylvania Department of Agriculture. The committee also expressed concern for the vulnerability of the wine and fruit industries to invasive species.
- **Pandemic and Infectious Disease-** When asked which pandemic and infectious diseases about which they were particularly concerned, committee members mentioned swine flu and avian flu due to the agricultural industry's presence. Other diseases

included West Nile Virus and Rocky Mountain spotted fever due to the number of mosquitos and ticks in the area. The committee also expressed concern about the spread of measles in neighboring counties possibly affecting the Adams County area.

- **Subsidence/Sinkhole-** The committee indicated that several areas of the county are vulnerable to sinkholes and subsidence, and noted the presence of Karst features in the area. They also mentioned that a sinkhole in Conewago Creek caused utility interruptions to some homes.
- **Terrorism-** The committee recalled some instances of civil disturbance and credible terrorism threats in the county. Committee members mentioned that the Civil War reenactment in Gettysburg every five years and the amount of tourism in the county are potential targets for terrorist events. They decided that because the potential for civil disturbance is so large, it should be profiled separately. The committee was also concerned about cyberterrorism and elected for it to be profiled separately as well.
- **Tornado/Windstorm-** When asked about past experiences with severe wind and tornadoes, the committee indicated that there had been significant wind and tornado events in the county, which have caused damage such as roof damage, utility interruptions, and damage to houses and barns.
- **Transportation Accident-** The committee indicated concern for the potential for accidents with several areas of disproportionately heavy traffic due to tourism, and large numbers of commercial vehicles on Route 116 in Bonneauville. Committee members also expressed concern about potential cascading effects of transportation accidents occurring on the rail network.
- **Wildfire-** The consultant reviewed the definition of wildfire with the committee and asked if they could recall any incidents. The committee noted that there were some instances of brush fires that became uncontrolled, and had the potential to cause a hazardous wildfire. Most notable for the committee was a series of five uncontrolled fires that covered 90 acres on Jack's Mountain.
- **Winter Storm-** Winter storms affect every region uniquely. The consultant asked the committee when they would consider snowfall a "winter storm." Members responded that while the county handles snowfall well, multiple events in a short period and snowfall that accumulates to or exceeds 16" can overwhelm response capabilities. Committee members were also concerned about wind creating snow drifts in the northern portion of the county.

The second agenda item was to finalize the public hazard mitigation survey. In addition to comments made in Meeting 2, the committee felt that combining questions three and five (regarding increasing and decreasing hazard events), and amending the instructions to ensure completion would enhance the survey experience. A copy of the finalized survey is attached to the minutes.

The final agenda item was to review the mitigation goals and introduce objectives. Committee members received a copy of the mitigation goals created and documented in Meetings 1 and 2. The consultant explained how these objectives should align with the mitigation goals, and ultimately with mitigation projects.

Attachments:

Sign-In Sheet

Public Hazard Mitigation Survey Draft

List of Previous Mitigation Projects

SIGN-IN SHEET

Project: Hazard Mitigation Plan Update – Meeting # 3

Meeting Date: September 9, 2019

Facilitator: JH Consulting, LLC

Place/Room: Classroom 1

Name	Title / Organization	Phone/Cellular	E-Mail
Pete DuPree	Fire Chief ^{Irish Fork} FC	443 3985521	dupd21@aol.com
VERA Jean Seeser	EMT Oxford Twp	717 624 4544	oxftwp@comcast.net
Barb Krebs	Coverages Twp	717-632-0411	bkrebs@coveragetwp.org
Billy Rodman	Adams County Planning	717-337-9827	brodman@adamscounty.us
NATE BECKER	UASD	717-677-7191	n.becker@upperadams.org
Don Schmitt	RCS AONES	717-624-5979	R30CS@aol.com
BOB JACKSON	SUPV. DIRECTY	717-642-9886	bjackson@nj.com
Ken Wolf	Sup.	717-677-6635	MenallenTwp@centurylink.com
CLACK KETTERMAN	SUPER.	717-359-4394	CKETTERMAN551@gmail.com
Sheri Moyer	Secretary	717-359-4500	Secretary@mtjoytwp.us
Kimberly Beard	Sec/Treasurer	717-624-4222	Readingtownship@comcast.net
Susan Wagle	"	642-5640	as 6-4
Bob Gowen	Hamilton		
MIKE STAREBUCK	Council President	717-334-2069	starembuck@emil.com
Susan Plank	Franklin	717-334-4900	info@franklintwp.us
John Aldridge	Union	240-372-8192	aldsr1@yahoo.com
JOE LACHOWSKI	NATIONAL PARK SERV.	717 338 4490	Joe.Lachowski@nps.gov
David Laughman	Mayer - Arendtsville	717 677 6009	david@DL3systems.com
WARREN BLADEN	DIRECTOR	717-334-5603	wpbladen@wilson.com

ADAMS COUNTY HAZARD MITIGATION SURVEY

Welcome (Unchanged)

Thank you for taking the time to respond to this survey and participating in the Adams County hazard mitigation planning process. This survey is designed to help the county as a whole, and your community, gauge public perceptions of hazard vulnerability and potential projects to lessen the impacts of future hazard occurrences. The information you provide will help reduce vulnerability by guiding local leaders as they prioritize mitigation projects.

If you would to discuss the hazard mitigation project in person, there will be public meetings during the project. Call the Adams County Emergency Services office at 717-334-8603 for locations and other details.

All responses are completely anonymous.

Hazard Information (Unchanged)

- 1. Please indicate how concerned you are about the following hazards where you live. (Unchanged)

	Not at all concerned	Somewhat concerned	Concerned	Very concerned
Dam failure				
Drought				
Earthquake				
Environmental hazards:				
Hazardous materials response				
Extreme temperature				
Flood, flash flood, ice jam				
Hailstorm				
Hurricane, tropical storm, Nor'easter				
Invasive species				
Nuclear incident				
Pandemic and infectious disease				
Subsidence, sinkhole				
Terrorism				
Tornado, windstorm				

Transportation
accident

Wildfire

Winter storm

Please add any comments here, or list any hazards about which you are concerned that are not included on the above list. (Text box)

2. In the past 10 years, which hazards do you remember occurring in your community? (Check all that apply.) (Unchanged)

- Dam failure
- Drought
- Earthquake
- Environmental hazards: Hazardous materials response
- Extreme temperatures
- Flood, flash flood, ice jam
- Hailstorm
- Hurricane, tropical storm, Nor'easter
- Invasive species
- Nuclear incident
- Pandemic and infectious disease
- Subsidence, sinkhole
- Terrorism
- Tornado, windstorm
- Transportation accident
- Wildfire
- Winter storm
- Other (please specify) (w/ text box)

3. Have you noticed an increase or decrease in the occurrences or intensity of any of the following hazards? (Consolidated with #4 of Draft 2)

	Increase	Decrease	No Change
Dam failure			
Drought			
Earthquake			
Environmental hazards: Hazardous materials response			
Extreme temperature			
Flood, flash flood, ice jam			
Hailstorm			
Hurricane, tropical storm, Nor'easter			
Invasive species			
Nuclear incident			
Pandemic and infectious disease			

Subsidence, sinkhole

Terrorism

Tornado, windstorm

Transportation accident

Wildfire

Winter storm

4. If applicable, to what do you the change can be attributed? (Text box) (Updated per consolidation noted above)

Preparedness (Old questions 7 through 10 deleted)

Experiences (New Heading)

5. Do you live in a special flood hazard area (SFHA)? (Old question 11, moved from old "Preparedness" section)
 - Yes
 - No
 - I don't know
6. Think back to a recent occurrence (any from Question 2). How would you rate your community's ability to respond? (New question)
 - Excellent
 - Good
 - Average
 - Fair
 - Poor
7. How do you find out about upcoming hazards such as the one's discussed previously in this survey? (Select all that apply) (Old question 12, otherwise unchanged)
 - Television announcements or the news
 - Radio
 - Social media (Twitter, Facebook, etc.)
 - A family member, neighbor, friend, or acquaintance
 - In the newspaper
 - Via wireless emergency notifications (e.g., text message)
8. Do you receive timely, accurate, and effective notifications from these sources that allow you to make appropriate decisions about what to do? (Old question 13, otherwise unchanged)
 - Yes
 - No
 - Not applicable, I do not receive notifications

Mitigation (Unchanged)

Mitigation is an effort your, your community, and/or your officials make to reduce the negative impacts of hazards.

9. Have you ever... (Check all that apply.) (Old question 19, otherwise unchanged)

- Elevated your home
- Maintained trees around the house or removed problematic trees
- Repaired or replaced the roof
- Cleared the underbrush
- Other (please specify) (w/ text box)

10. If you have done any of the previous to your property, how was it paid for? (Old question 20, otherwise unchanged)

- I/we spend my/our own money
- The county/city/borough/township paid for it
- Not applicable
- Other (please specify) (w/ text box)

11. Please indicate the types of mitigation actions you would support; these could be something you can do, or an initiative by local officials. (Check all that apply.) (Old question 21, otherwise unchanged)

- Buying out properties, relocating homes, or elevating structures that are prone to repetitive flooding
- Upgrading the water and sewer systems
- Installing generators in critical facilities such as hospitals, police stations, fire stations, etc.
- Regulating the type of development that is permitted in areas that are dangerous due to hazards
- Planting trees to prevent erosion and promote cooler micro-climates
- Promoting the collection and reuse of rainwater such as in rain gardens and green roofs
- Reducing the amount of surface pavement to reduce flooding and the heat island effect
- Requiring water conservation during drought conditions
- Conducting inspections of new construction and enforcing building codes
- Requiring new development to construct on-site retention basins for excessive stormwater runoff and as a firefighting water source
- Preserving the floodplains as open space
- Adopting building codes that go above and beyond the basic requirements of construction
- Burying power lines to provide for interrupted power during severe weather

- Establishing standards for all utilities regarding tree pruning around lines
- Anchoring mobile homes and roof-mounted and ground equipment
- Building community shelters for tornadoes and severe weather events
- Supporting educational campaigns aimed at preparing the population for a variety of hazards
- Other (please specify) (w/ text box)

Demographic Information (Unchanged)

12. In which community do you live (or work, if you do not live in Adams County)? (Old question 25, moved in sequence, otherwise unchanged)

- Abbottstown Borough (drop down list for all)
- Arendtsville Borough
- Bendersville Borough
- Biglerville Borough
- Bonneauville Borough
- Carroll Valley Borough
- East Berlin Borough
- Fairfield Borough
- Gettysburg Borough
- Littlestown Borough
- McSherrystown Borough
- New Oxford Borough
- York Springs Borough
- Berwick Township
- Butler Township
- Conewago Township
- Cumberland Township
- Franklin Township
- Freedom Township
- Germany Township
- Hamilton Township
- Hamiltonban Township
- Highland Township
- Huntington Township
- Latimore Township
- Liberty Township
- Menallen Township
- Mount Joy Township
- Mount Pleasant Township
- Oxford Township
- Reading Township

- Straban Township
- Tyrone Township
- Union Township

13. How long have you resided in your community? (New question)

- Not applicable, I do not live in Adams County
- Less than 1 year
- 1-5 years
- 6-10 years
- 11-20 years
- More than 20 years

14. Please provide your age. (Old question 23, moved in sequence, otherwise unchanged)

- Under 18
- 19-25
- 26-35
- 36-55
- 55-72
- Over 72

15. Please write any general comments here. (Text box) (Old question 26, otherwise unchanged)

Wildfire	X			X
Winter Storm	X	X		X
Dam Failure	X			X
Environmental Hazards	X		X	X
Nuclear Incidents				X
Terrorism				X
Transportation Accidents	X			X

6.4. Mitigation Action Plan

Using the results obtained from the 5-Year Mitigation Strategy Evaluation Form, summarized in Table 6.1-2, as a base to start, the planning team identified actions for the HMP Update.

Municipalities identified actions listed on the 5-Year Mitigation Strategy Evaluation Form; they wished to continue as part of the HMP Update. In addition, a new mitigation action template was available for municipalities to identify new actions they wished to pursue as part of the HMP Update. The form was provided at the HMP Workshop, during office hours, and via the project website. Several municipalities identified new actions through the new action template. Each of the new actions was obtained from one-on-one meetings with municipalities during office hours in August.

The HMPSC conducted a detailed review of draft actions at a Steering Committee meeting on August 18 which resulted in the 2015 HMP actions listed in Table 6.4-1. Draft actions were developed by the Consultant POC using planning team input obtained through the 5-Year Mitigation Strategy Evaluation Form, new municipal actions identified through office hours, and comments provided at project meetings. The HMPSC reviewed each draft action and determined if a draft action should be kept, modified, or deleted. The HMPSC added several new actions and also considered Low Priority Actions from the 2010 HMP. These were actions that were identified as one of 53 actions from the 2010 HMP, but the prioritization of the action was low and was; therefore, not included as part of the final 2010 Mitigation Action Plan. Several of the 2010 Low Priority Actions were included as part of the 2015 actions to consider.

Table 6.4-1 lists the mitigation actions, by goal and objective, for the 2015 HMP update. A total 38 mitigation actions were selected for the 2015 HMP Update. At least one mitigation action was established for each hazard profiled, but more than one action is identified for several hazards. Each participating municipality has at least one action. Each mitigation action is intended to address one or more of the goals and objectives identified in Section 6.2 - Mitigation Goals and Objectives. Underlined actions will contribute toward continued compliance with and participation in the NFIP.

Adams County 2015 All-Hazard Mitigation Plan Update

Table 6.4-1 2015 Mitigation Actions by Goal and Objective	
Goal 1	Reduce potential injury/death and damage to existing community assets due to flooding.
Objective 1.A	Identify by municipality and evaluate protection, acquisition, or relocation of homes and existing facilities with the highest relative vulnerability in the 1%-chance floodplain.
Action 1.A.1	Identify and conduct cost-benefit analysis of protection, acquisition, or relocation of existing facilities with the highest relative vulnerabilities.
Action 1.A.2	Utilize generators, battery backups, and sump pumps in municipal buildings and other critical facilities.
Objective 1.B	Identify and evaluate strategies for repetitive-loss properties and frequently impacted structures.
<u>Action 1.B.1</u>	Develop strategy to address repetitive flooding impacting residential structures along Conewago Creek in Reading Township.
<u>Action 1.B.2</u>	Identify stormwater management improvements in Biglerville Borough and Butler Township.
<u>Action 1.B.3</u>	Identify stormwater management improvements along Carrolls Tract Road in Hamiltonban Township.
<u>Action 1.B.4</u>	Assess locally owned (county/township/borough) bridges for direct flooding impacts and evaluate means to mitigate flood hazards to ensure bridges remain open during flood events.
Objective 1.C	Provide public outreach/education regarding strategies (e.g., flood proofing) for property owners in 1%-chance floodplain.
<u>Action 1.C.1</u>	Continue to conduct outreach with municipalities to provide information regarding flood mitigation actions.
<u>Action 1.C.2</u>	Promote the Community Rating System (CRS) in an effort to reduce insurance premiums and flood damage In Adams County municipalities prone to flooding.
Objective 1.D	Address identified data limitations regarding lack of detailed information about the County's high-hazard areas and individual structures located in the 1%-chance floodplain.
<u>Action 1.D.1</u>	Use County GIS to inventory structures in floodplains.
<u>Action 1.D.2</u>	Obtain information for structures in the areas with the highest relative vulnerability to determine the best property protection methods. The information to be obtained includes: lowest-floor elevation, number of stories, presence of a basement, and market and/or replacement value.
<u>Action 1.D.3</u>	Obtain information for all remaining structures in the 1%-chance floodplain to determine the best property protection methods to promote with individual property owners.
Goal 2	Reduce potential injury/death and damage to existing community assets due to severe weather.
Objective 2.A	Identify the most vulnerable and critical existing structures and infrastructure due to the effects of severe weather.
Action 2.A.1	Conduct qualitative evaluation process for critical facilities and infrastructure to determine relative vulnerability and gather information for subsequent refinements of this mitigation plan.
Action 2.A.2	Identify critical facilities with the highest relative vulnerability to the effects of power

Table 6.4-1 2015 Mitigation Actions by Goal and Objective	
	outage (i.e., hospitals, nursing homes, personal care facilities, day care facilities, fire, police, rescue, and emergency management).
Action 2.A.3	Assist in developing action plans for reducing potential damage and loss of function at identified critical facilities and infrastructure.
Objective 2.B	Encourage the public to identify personal storm shelters and identify warning systems during the event of severe weather.
Action 2.B.1	Continue to identify residents with the highest relative vulnerability to the effects of severe weather and prepare implementation plan.
Objective 2.C	Assess the adequacy of municipal zoning/land-use ordinances and building-code implementation.
Action 2.C.1	Continue to monitor existing municipal ordinances from a hazard mitigation perspective.
Action 2.C.2	Ensure implementation of applicable provisions of the UCC.
Goal 3	Reduce potential injury/death and damage to existing community assets due to fires.
Objective 3.A	Ensure adequate water supply for firefighting.
Action 3.A.1	Continue to identify dry wells by municipality.
Action 3.A.2	Continue to encourage municipalities to address the adequacy of water for firefighting.
Action 3.A.3	Communicate with fire companies to identify any deficiencies in water supply for firefighting.
Goal 4	Reduce potential injury/death and damage to existing community assets due to environmental hazards.
Objective 4.A	Develop comprehensive approach to reducing potential injury/damages for nearby critical facilities and vulnerable populace.
Action 4.A.1	The LEPC should work with facility owners and operators identified as having the greatest potential impact (based on population in the immediate vicinity) to ensure facilities are in compliance with all relevant local, state, and federal requirements; neighboring property owners understand the potential extent of the risk; traffic routing signs and trucker education are adequate; and alert and warning systems are appropriate to the situation.
Action 4.A.2	Inform fire companies along the rail lines of the potential for hazmat releases.
Action 4.A.3	Develop an evacuation plan for Lincoln Speedway in Berwick Township.
Action 4.B.1	Distribute the County Commodity Flow Study to municipalities, municipal authorities, and fire departments.
Objective 4.B	Evaluate potential contamination of drinking water sources along transportation corridors.
Action 4.B.1	Distribute the County Commodity Flow Study to municipalities, municipal authorities, and fire departments.
Goal 5	Reduce potential injury/death and damage to existing community assets due to terrorism and nuclear incidents.

Table 6.4-1 2015 Mitigation Actions by Goal and Objective	
Objective 5.A	Identify by municipality the most vulnerable and critical structures and infrastructure relative to terrorism and nuclear incidents and identify tactical vulnerability.
Action 5.A.1	Identify by municipality existing critical facilities with the highest relative vulnerability.
Action 5.A.2	Work with PEMA, FEMA, and the U.S. Department of Homeland Security to stay abreast of developments in procedures for identifying and determining benefits/costs for potential mitigation actions for terrorist activities.
Objective 5.B	Enhance response capability of County and municipal services.
Action 5.B.1	Work with the South Central Regional Counterterrorism Task Force and emergency responders to plan and prepare for terrorist activities, including training and exercises.
Goal 6	Promote disaster-resistant future development.
Objective 6.A	Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.
Action 6.A.1	Include hazard-specific information from the vulnerability analysis as part of periodic plan review and revisions at the township/borough level.
Action 6.A.2	Continue to integrate evaluation of snow-removal and emergency access logistics with new development planning.
Action 6.A.3	Update municipal subdivision and land development ordinances to address subsidence and sinkhole development due to identified near-surface limestone or Karst geologic features and require a carbonate study for development within Karst areas.
Objective 6.B	Ensure implementation of applicable provisions of the UCC to provide protection for new construction and substantial renovations from the effects of identified hazards.
Action 6.B.1	Ensure implementation of applicable provisions of the UCC.
Action 6.B.2	Encourage adoption of International Building Code in all townships/boroughs.
Goal 7	Promote hazard mitigation as a public value in recognition of its importance to the health, safety, and welfare of the population.
Objective 7.A	Provide public education to increase awareness of hazards, opportunities for hazard mitigation, and actions to take during an emergency.
Action 7.A.1	Continue to educate and conduct outreach pertaining to hazard mitigation and actions to take during an emergency. Methods to be used may include meetings, workshops, websites, mailings, and media coverage.
Objective 7.B	Promote partnerships between the municipalities and the County to continue to develop a County-wide approach to identifying and implementing mitigation actions.
Action 7.B.1	Convene regular meetings of the HMPC to discuss issues and progress related to the implementation of the plan.
Objective 7.C	Develop a comprehensive approach to reduce potential injury to vulnerable populace.
Action 7.C.1	Identify special populations requiring additional emergency response during any

Table 6.4-1 2015 Mitigation Actions by Goal and Objective	
	hazard event and evaluate means to enhance response capability.
Objective 7.D	Promote public education and outreach to address Pandemic and Infectious Disease and Invasive Species.
Action 7.D.1	Work with appropriate county and regional partners to conduct public education on the County's Pandemic Plan.
Action 7.D.2	Work with appropriate county and regional partners to conduct public education on the impacts of invasive species.

Table 6.4-1 lists 38 mitigation actions, many of which will require substantial time commitments from Adams County DES, ACOPD, and local municipalities. The HMPSC believes these actions are attainable and can be implemented over the next five-years. While all activities will be pursued over the next five years, the reality of limited time and resources requires the evaluation and prioritization of mitigation actions.

Evaluating mitigation actions involves judging each action against certain criteria to determine whether or not it can be executed. The HMPSC evaluated the feasibility of mitigation actions using the ten evaluation criteria set forth in the Mitigation Action Evaluation methodology. The methodology solicits input on whether each action is highly effective or feasible and ineffective or not feasible for the criteria. These criteria are listed below and aid in determining the feasibility of implementing one action over another.

- **Life Safety:** Will the action be effective in promoting public safety?
- **Property Protection:** Will the action be effective in protecting public or private property?
- **Technical:** How effective will the action be in avoiding or reducing future losses?
- **Political:** Does the action have public and political support?
- **Legal:** Does the community have the authority to implement the proposed measure?
- **Environmental:** Will the action provide environmental benefits and will it comply with local, state and federal environmental regulations?
- **Social:** Will the action be acceptable by the community or will it cause any one segment of the population to be treated unfairly?
- **Administrative:** Is there adequate staffing and funding available to implement the action in a timely manner?
- **Local Champion:** Is there local support for the action to help ensure its completion?
- **Other Community Objectives:** Does the action address any current or future community objectives either through municipal planning or community goals?

To evaluate the mitigation actions, the HMPSC identified each action as highly effective or feasible and ineffective or not feasible using the Mitigation Action Evaluation form. Results are included in Table 6.4-2.