

Section 5

Mitigation Strategy Requirements

Mitigation Strategy---Requirement §201.6(c)(3):

The plan **shall** include a strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

Local Hazard Mitigation Goals---Requirement §201.6(c)(3)(i):

[The hazard mitigation strategy **shall** include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

- Does the plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards?

Identification and Analysis of Mitigation Measures---Requirement §201.6(c)(3) (ii):

[The mitigation strategy **shall** include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

- Does the plan identify a comprehensive range of specific mitigation actions and projects for each hazard?
- Do the identified range of mitigation actions and projects address reducing the effects of hazards on new buildings and infrastructure?
- Do the identified range of mitigation actions and projects address reducing the effects of hazards on existing buildings and infrastructure?

Implementation of Mitigation Measures---Requirement: §201.6(c)(3) (iii):

[The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

- Does the mitigation strategy include how the actions are prioritized?
- Does the mitigation strategy address how the actions will be implemented and administered?
- Does the prioritization process include an emphasis on the use of cost-benefit review?

SECTION 5

REGION 5 HAZARD MITIGATION PLAN CITY OF EDGEWOOD MITIGATION STRATEGY SECTION

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Table 5-1 City of Edgewood Mitigation Strategy Matrix

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ¹	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
Startup	1. Existing Mitigation Actions (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Edgewood - Administration	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Edgewood - Administration	Ongoing	✓	✓	✓	✓	✓	✓
HMF	1. Pierce County Hazard Mitigation Forum (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	PC DEM; Edgewood - Administration	Ongoing	✓	✓	✓	✓	✓	✓
City Government	1. Capability Identification and Evaluation - (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Edgewood	1-2	N/A					
	2. Implement Jovita Corridor Improvements- Culvert Replacement -(<i>L,F,SW</i>)	Edgewood	5	✓	✓	✓	✓		✓
	3. Identify and Implement Edgewood Drive and Sumner Heights Road Improvements (<i>E,L,F,SW</i>)	Edgewood	5	✓	✓	✓	✓		✓
	4. Continue 25 th Street Maintenance Program (<i>E,L,F,SW</i>)	Edgewood	5	✓	✓	✓	✓		✓
	5. Identify and Implement Chrisella Road East Improvements (<i>E,L,T,V,F,SW</i>)	Port of Tacoma, Edgewood, Regional Partners	5	✓	✓	✓			✓
	6. Develop Emergency Planning Transportation Overlays (<i>E,L,T,V,F,WUI,SW,MM</i>)	Edgewood and Regional Partners (Fire, County, School)	1-2	✓	✓	✓			✓
	7. Conduct Assessment and Develop Strategy for City Roads Impacted by Flooding (<i>F,SW</i>)	Edgewood	5	✓	✓	✓	✓		✓
	8. Seismic Replacement/Retrofit of City Owned Infrastructure (<i>E,SW</i>)	Edgewood	5	✓	✓	✓			✓
	9. Seismic Retrofit of Fire District #8 Fire Station (<i>E,SW</i>)	PCFD #8 and Edgewood	5	✓	✓	✓			
	10. Water Tower 48 th Street—Seismic Retrofit High Priority for Mt. View-Edgewood (<i>E,SW</i>)	Mt. View-Edgewood Water Company	5	✓	✓	✓			✓
	11. Seismic and Severe Weather Retrofit of Edgewood Windmill (<i>E,SW</i>)	Private owners with support from Edgewood	5			✓			✓
	12. Install 110 Foot Monopole at 48 th Street (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood - Public Works, Mt. View-Edgewood Water	1-2	✓	✓	✓			
	13. Implement Infrastructure Improvements on State Route 161 (<i>E,L,V,F,SW</i>)	Washington State Department of Transportation with Edgewood	5	✓	✓	✓			✓
	14. Join National Flood Insurance Program Community Rating System (CRS) (<i>E,L,V,D,F,SW,WUI</i>)	Edgewood	5	✓		✓	✓	✓	✓
	15. Identify and Mitigate Flood Prone Properties (<i>F,SW</i>)	Edgewood	5	✓		✓	✓		✓
	16. Continue Development of Shelter Program in the City (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood and PC DEM	Ongoing	✓	✓	✓		✓	

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ¹	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	17. Develop and Maintain a Continuity of Government Plan for the City (COG) (<i>E,L,V,D,F,WUI,SW,MM</i>)	Edgewood with Regional Partners	5	✓	✓	✓		✓	✓
	18. Develop Contract with Regional Partners for Disaster Resources (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood	5	✓	✓	✓		✓	✓
	19. Maintain and Update Critical Area Regulations (<i>E,L,V,F,SW,MM</i>)	Edgewood	Ongoing	✓		✓	✓	✓	✓
	20. Develop Coverage Areas for Reverse 911 System (Intellicast) (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood	Ongoing	✓	✓	✓	✓	✓	✓
Public Education	1. Continue and Expand PC-NET Program in City of Edgewood (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood and PC DEM	Ongoing	✓	✓	✓		✓	
	2. Create and Publish Hazard Articles in City Quarterly Newsletter (<i>E,L,V,D,F,WUI,SW,MM</i>)	Edgewood	Ongoing	✓	✓	✓			
	3. Conduct Annual Public Safety Fair (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood	1-2	✓	✓	✓		✓	
	4. Continue Hazard Related Training for City Staff (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood	Ongoing	✓	✓	✓		✓	✓
	5. Continue Hazard Related Training for City Chief Elected Officials (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood	1-2	✓	✓	✓		✓	✓
	6. Hazard Related Education and Training for City Businesses (<i>E,L,V,F,WUI,SW,MM</i>)	Edgewood with Regional Partners	1-2	✓	✓	✓		✓	

Startup Mitigation Measures

Existing Mitigation Actions

Hazards: E, L, T, V, D, F, WUI, SW¹, MM²

Edgewood will continue to implement existing programs, policies, and regulations as identified in the Capability Identification Section of this Plan. This includes such actions as updating the Critical Area Regulations and any ensuing land use policies with best available science. It also includes continuing those programs that are identified as technical capabilities.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be accomplished with local budgets or grants.
4. **Lead Jurisdiction(s)** = City of Edgewood - Administration
5. **Timeline** = Ongoing
6. **Benefit** = City-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Plan Maintenance

Hazards: E, L, T, V, D, F, WUI, SW¹, MM²

Edgewood will adopt those processes outlined in the Plan Maintenance Section of this Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood - Administration
5. **Timeline** = Ongoing
6. **Benefit** = City-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Hazard Mitigation Forum

Pierce County Hazard Mitigation Forum

Hazards: E, L, T, V, D, F, WUI, SW¹, MM²

Edgewood will work in conjunction with the County through the Pierce County Hazard Mitigation Forum (HMF). The Forum will continue as a means of coordinating mitigation planning efforts among all jurisdictions within the County that have completed a mitigation plan. This ensures efficient use of resources and a more cooperative approach to making a disaster resistant county. The HMF meets annually; every October. This is addressed in the Plan Maintenance Section of this Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Minor
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = PC DEM; City of Edgewood
5. **Timeline** = Ongoing
6. **Benefit** = Regional
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

City Government Mitigation Measures

Capability Identification and Evaluation

Hazards: E, L, T, V, D, F, WUI, SW¹, MM²

Edgewood will develop a consistent and replicable system for evaluating the City's capabilities. A comprehensive evaluation will lead to specific policy recommendations to more effectively achieve disaster resistant communities. Further, a capability evaluation involves measurable variables so that capabilities may eventually be tracked in conjunction with the implementation of all mitigation measures. This is a key component in evaluating the success of the City's overall mitigation strategy.

1. **Goal(s) Addressed** = N/A. Goals addressed are contingent upon the mitigation measures resulting from this priority.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Short-term
6. **Benefit** = City-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Implement Jovita Corridor Improvements—Culvert Replacement

Hazards: L, F, SW¹

Edgewood will implement improvements to Jovita Road in north-eastern area of the City. The project will replace a culvert along the road coming up out of Sumner Area. The culvert will be of a type which will upgrade the current capacity from 12 inches. This project will reduce the flooding in the area, which in turn will reduce the landslide threat. Furthermore, this project will allow for further salmon restoration in the area.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget, WSDOT Funds or Salmon Recovery Funds
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = City of Edgewood and Regional Partners
7. **Life of Measure** = 50 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Identify and Implement Edgewood Drive and Sumner Heights Road Improvements

Hazards: E, L, F, SW¹

Edgewood will identify and implement improvements to Edgewood Drive and Sumner Heights Road in south-eastern area of the City. The project will look at such issues involving landslide and flood related vulnerabilities. This project will improve these roads in order to continue to provide the services.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Long-Term
6. **Benefit** = City of Edgewood and Regional Partners
7. **Life of Measure** = 50 years
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Continue 25th Street Maintenance Program

Hazards: E, L, F, SW¹

Edgewood will identify and implement improvements to 25th Street in south-western area of the City. The project will look at such issues as involving landslide and flood related vulnerabilities. This project will improve the road in order to continue to provide service. The road has been blocked by slides in the past when the region experienced prolonged severe weather events.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = City of Edgewood and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Identify and Implement Chrisella Road East Improvements

Hazards: E, L, T, V, F, SW¹

Edgewood will identify and implement improvements to Chrisella Road East in southern area of the City. This project will look at elevating the road above the railroad tracks and other structural improvements as the road leaves the valley and climbs the plateau of the City. This project will be a joint project under the Freight Action Strategy (FAST) Corridor Program.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budgets or FAST Program grants.
4. **Lead Jurisdiction(s)** = Port of Tacoma, City of Edgewood, Regional Partners
5. **Timeline** = Long-Term
6. **Benefit** = City of Edgewood and Regional Partners
7. **Life of Measure** = 50 years
8. **Community Reaction** = the proposal would be somewhat controversial.

Develop Emergency Planning Transportation Overlays

Hazards: E, L, T, V, F, SW, WUI¹, MM²

Edgewood will identify various emergency transportation routes throughout the City and map them for planning purposes. Due to the heavy reliance on other jurisdictions for services, this measure will involve input from the City, the Utility Providers, the County, the School Districts and the Fire District to name a few. The routes could include: snow clearing, valley evacuation routes, etc. This measure will build on the Regional Evacuation Plans that are being developed with input from the City.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood and Regional Partners (Fire, County, School)
5. **Timeline** = Short-term
6. **Benefit** = City of Edgewood and other Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Conduct Assessment and Develop Strategy for City Roads Impacted by Flooding

Hazards: F, SW¹

Edgewood will identify roads in the City that are impacted by flooding. Once the roads have been identified (such as 114th Street and 36th Street), the City will develop a strategy to mitigate the flooding. This could be done through a number of techniques, such as creating compensatory storage by raising roads, creating retention ponds, or buying out property.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = City of Edgewood, Regional Partners, residents in impacted areas.
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Seismic Replacement/Retrofit of City Owned Infrastructure

Hazards: E, SW¹

Edgewood will identify and mitigate City owned infrastructure that is in need of a seismic replacement/retrofit. The current City Hall is one such candidate, which would be a good candidate for a seismic replacement.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = City of Edgewood, Regional Partners, Various by infrastructure
7. **Life of Measure** = 5 years for assessment portion.
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Seismic Retrofit of Fire District #8 Fire Station

Hazards: E, SW¹

Edgewood will investigate a seismic retrofit of the Fire District #8 fire station. A seismic retrofit or replacement of the fire station would reduce the vulnerability of the existing infrastructure to the seismic hazard. The City relies on the District for fire and other emergency related services and it is vital the District station remain viable after the next earthquake or severe storm.

1. **Goal(s) Addressed** = Protect life and property; Ensure continuity of operations, Establish and strengthen partnerships for implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** =Pierce County Fire District #8, Fire Chief and support by City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = Fire Station employees and City citizens, City of Edgewood and Regional Partners
7. **Life of Measure** = Retrofit-50 years, Replacement-75 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Water Tower 48th Street – Seismic Retrofit High Priority for Mt. View Edgewood

Hazards: E, SW¹

Edgewood will perform a seismic retrofit of the Mt. View-Edgewood Water Company 48th Street Towers. A seismic retrofit of the water towers would reduce the vulnerability of the existing infrastructure to the seismic hazard. The City relies on the Company for water service which is vital to many aspects of life in the area.

1. **Goal(s) Addressed** = Protect Life and Property, Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation, Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Mt. View-Edgewood Water Company-General Manager
5. **Timeline** = Long-term
6. **Benefit** = Water customers, City of Edgewood, Regional Partners
7. **Life of Measure** = Retrofit-50 years
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Seismic and Severe Weather Retrofit of Edgewood Windmill

Hazards: E, SW¹

Edgewood will perform a seismic and severe weather retrofit of the Edgewood Windmill. First an assessment will be completed to identify deficiencies in the Windmill and then a seismic and severe weather retrofit of the Windmill would be implemented to reduce the vulnerability of existing infrastructure to the seismic and severe weather hazard.

The Windmill is historic and a landmark piece of infrastructure in the City. This measure would strap down or reinforce the existing Windmill in place. Eventually, the Windmill will be relocated to the City grounds as part of the City Center.

1. **Goal(s) Addressed** = Promote A Sustainable Economy; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = Private Owners with support from City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = Owners, Residents, Nearby Businesses, City of Edgewood
7. **Life of Measure** = Retrofit-50 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Install 110 Foot Monopole at 48th Street

Hazards: E, L, V, F, WUI, SW¹, MM²

Edgewood will install a 110 foot tall Monopole at the 48th Street water tower location. The Monopole will expand the Emergency Communication capabilities in the City and the Region. This will help ensure that first responders can communicate with each other during times of emergency and disaster.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Edgewood - Public Works or Contractor
5. **Timeline** = Short-term
6. **Benefit** = First Responders, Residents, Businesses and Regional Partners
7. **Life of Measure** = 50 years
8. **Community Reaction** = the proposal is likely to be somewhat controversial.

Implement Infrastructure Improvements on State Route 161

Hazards: E, L, V, F, SW¹

Edgewood will implement improvements to State Route 161 (Meridian Street) in southern areas of the City. The project will widen the road coming up out of Puyallup Valley to include pedestrian access. Once completed, this project will create more evacuation routes out of the valley and at the same time reduce the vulnerability of the existing transportation infrastructure to the landslide hazard.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Washington State Department of Transportation with City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = City of Edgewood, surrounding communities, Regional partners
7. **Life of Measure** = 50 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Join National Flood Insurance Program Community Rating System

Hazards: E, L, V, D, F, WUI, SW¹

This will involve the City joining the National Flood Insurance Program's (NFIP) Community Rating System (CRS). This is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the CRS: 1) reduce flood losses; 2) facilitate accurate insurance rating; and 3) promote the awareness of flood insurance.

For CRS participating communities, flood insurance premium rates are discounted in increments of 5%; i.e., a Class 1 community would receive a 45% premium discount, while a Class 9 community would receive a 5% discount (a Class 10 is not participating in the CRS and receives no discount). The CRS classes for local communities are based on 18 creditable activities, organized under four categories: i) Public Information, ii) Mapping and Regulations, iii) Flood Damage Reduction, and iv) Flood Preparedness.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = City of Edgewood, Residents, Businesses
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Identify and Mitigate Flood Prone Property

Hazards: F, SW¹

Edgewood will identify and mitigate flood prone property. The City has several areas that experience closed depression flooding. Over past decade properties within these areas have been flooded. The City will catalog the properties and develop a strategy to mitigate the flooding. The strategy could include such measures as purchasing structures and turning the property back to its natural state or elevating structures on the property.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Promote a Sustainable Economy.
2. **Cost of Measure** = Minor
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = City of Edgewood and Impacted Parcels and other Regional Partners
7. **Life of Measure** = Perpetual for buyout
8. **Community Reaction** = the proposal would be strongly opposed by most.

Continue Development of Shelter Program in City

Hazards: E, L, V, F, WUI, SW¹, MM²

Edgewood will continue the development of the Shelter Program in the City.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood and PCDEM
5. **Timeline** = Ongoing
6. **Benefit** = City of Edgewood Residents and Regional Partners
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Develop and Maintain a Continuity of Government Plan for the City (COG)

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Edgewood will develop a Continuity of Government Plan for the City.

The purpose of this Plan will be to provide guidance for the protection of the City Government's officials and documents, with or without warning of a wide range of potential emergencies, while outlining the City's viable and executable contingency plans for Continuity of Government (COG).

This COG is planted in the foundations of existing fundamentals of Continuity of Government (COG) (i.e., the continued performance of essential department functions and support of the City during emergency or disaster situations.) and Continuity of Operations (COOP) (i.e., providing essential functions to customers from a different location, due to the primary facility becoming unusable, for long or short periods of time). COG is dependent on effective implementation of COOP plans and capabilities by the City.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budgets.
4. **Lead Jurisdiction(s)** = City of Edgewood with Regional Partners
5. **Timeline** = Long-Term
6. **Benefit** = City of Edgewood, residents and businesses
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Contract with Regional Partners for Disaster Resources

Hazards: E, L, V, F, WUI, SW¹, MM²

Edgewood will develop a memorandum of understanding, contract or agreement with Regional Partners for use of resources in an emergency or disaster. The City shares responsibilities with several Regional Partners when emergencies occur. The local fire district, water companies, school districts, county departments, etc. all have resources that could be leveraged in times of emergency or disaster, and this memorandum would formalize this process.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Long-term
6. **Benefit** = City of Edgewood, residents and businesses
7. **Life of Measure** = Various
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Maintain and Update Critical Area Regulations

Hazards: E, L, V, F, SW¹, MM²

Edgewood will maintain and update the City's Critical Area Regulations. The City is required to adopt and implement land use regulations that protect critical or environmentally sensitive areas in the City under the State Growth Management Act. These areas coincide with many natural hazards that impact the City, such as flood hazard areas, volcanic lahar areas, landslide hazard areas, and seismic hazard areas. By protecting these areas and limiting the people and infrastructure in the areas, the vulnerability of the City is reduced and the environment is protected. As an education component of this process, the City will continue educating the land users of hazards that they are building in. The checklist is developed when a developer goes in for a permit to develop property, and the critical areas are identified. Through the use of the of the critical areas checklist, the City will take the opportunity to educate developers on the hazards that may impact them.

Priority Updates:

- As part of the updating, the City will hire geographic information systems technician to incorporate wetland buffers into City's critical areas, and
 - Partner with water suppliers (Milton, Mt. View, etc.) to develop GIS dataset to incorporate into their water sources in critical areas.
1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
 2. **Cost of Measure** = TBD
 3. **Funding Source and Situation** = Funding could be obtained through local budget.
 4. **Lead Jurisdiction(s)** = City of Edgewood
 5. **Timeline** = Ongoing
 6. **Benefit** = City of Edgewood Residents and businesses and Regional Partners
 7. **Life of Measure** = Varies
 8. **Community Reaction** = the proposal would be endorsed by the entire community.

Develop Coverage Areas for Reverse 911 System (Intellicast)

Hazards: E, L, V, F, WUI, SW¹, MM²

The measure will involve developing geographic information system coverage areas in the County's Reverse 911 System for the City. The impacted jurisdiction defines a geographic area and system then calls all land phones in that area alerting them to the given hazard. This system can be used without pre-drawn coverage areas, but by pre-identifying the service areas within the City the message can be sent out more efficiently. The system has proved invaluable in recent floods and windstorms; both declared Federal Disasters, in the County.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Ongoing
6. **Benefit** = City of Edgewood Residents and Businesses, and Regional Partners
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Public Education Mitigation Measures

Continue and Expand PC-NET Program in City

Hazards: E, L, V, F, WUI, SW¹, MM²

Edgewood will continue and expand the PC-NET (Pierce County Neighborhood Emergency Teams) in the City.

PCNET is a neighborhood-oriented approach to emergency preparedness and homeland security. It is based on the belief that a cooperative effort between a county and its citizens is the only sure way to protect a neighborhood and to prepare for a major disaster. The program helps individuals and their neighborhoods prepare to mutually assist each other so that lives can be saved, property can be spared, and emergency services can be freed to respond to the most devastated areas. This will be accomplished by organizing block groups into a variety of disaster response teams, each of which has a simple one-page list that clearly outlines necessary tasks. No special skills or equipment are required to participate—and only a minimal time commitment is needed. Such programs are critical to reminding the public of the hazards in Pierce County, and of the necessity of having on hand the supplies and materials to survive independently for a minimum of 72 hours. These programs will be continued and expanded upon.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood and PCDEM
5. **Timeline** = Ongoing
6. **Benefit** = City of Edgewood, residents, businesses and Regional Partners
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Create and Publish Hazard Articles in City Quarterly Newsletter

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Edgewood will continue the practice of using the City Quarterly Newsletter to educate the public about the hazards in the City. This could include articles about structural renovations of structures, basic preparedness, etc. This is an effective tool in connecting with citizens.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Minimal
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Ongoing
6. **Benefit** = City of Edgewood citizens and Regional Partners
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Conduct Annual Public Safety Fair

Hazards: E, L, V, F, WUI, SW¹, MM²

Edgewood will conduct an Annual Public Safety Fair. This Fair could be tied into an existing event in the Region or a new event. Regional partners such as Water Companies, the Fire District, the School Districts and others could be involved. The main messages could include educating the public on the hazards in the City, the responsibilities of given jurisdictions, and how to prepare. This message should build on the 3 Days 3 Ways Message listed on the City Website and that is used throughout the Puget Sound.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Short-term
6. **Benefit** = City of Edgewood residents and Regional Partners
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Continue Hazard Related Training for City Staff

Hazards: E, L, V, F, WUI, SW¹, MM²

Edgewood will continue the Hazard Related Disaster Training for City Staff. This will build on such classes that involve: Preparedness at work, home and on the road; NIMS training; ATC-20 training; and Hazard Awareness Training. Having employees prepared will help ensure City Operations and provide a faster response and recovery when hazards threaten the City.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
2. **Cost of Measure** = Varies
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Ongoing
6. **Benefit** = City of Edgewood employees, residents and businesses
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Continue Hazard Related Training for City Chief Elected Officials

Hazards: E, L, V, F, WUI, SW¹, MM²

Edgewood will continue the Hazard Related Disaster Preparedness Training for City Chief Elected Officials. This will build on such classes that involve: Preparedness at work, home, and on the road, NIMS training, and Hazard Awareness Training. Having chief elected officials prepared will help ensure City Operations and provide a faster response and recovery when hazards threaten the City.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood
5. **Timeline** = Short-term
6. **Benefit** = City of Edgewood, residents and businesses
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Hazard Related Education and Training for City Businesses

Hazards: E, L, V, F, WUI, SW¹, MM²

Edgewood will conduct hazard related education and training for City Businesses. The City businesses play a vital role in the future of the City. By partnering with other regional governmental partners (Fire District, Cities, County, etc.) the businesses will be provided an awareness level introduction to the hazards in the area. Working with local business groups or the chambers of commerce, this will help build a level of sustainability into the City along with providing a mechanism for leveraging resources before and after an emergency or disaster.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Edgewood with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City of Edgewood businesses and residents, Regional Partners
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Endnotes

¹ Hazard Codes:

Where necessary, the specific hazards addressed are noted as follows:

A:	Avalanche
E:	Earthquake
F:	Flood
D:	Drought
T:	Tsunami
V(L OR T):	Volcanic (lahar or tephra-specific)
SW:	Severe Storm (wind-specific)
L:	Landslide
WUI:	Wildland/Urban Interface Fire
MM:	Manmade to include terrorism
ALL:	All hazards, including some man made. Where only natural hazards are addressed, it is noted.

² While this Plan is strictly a *Natural* hazard mitigation plan, where a measure stems from a facility recommendation (Infrastructure Section) that deals specifically with terrorism, the mitigation strategy will use that analysis. Other measures, such as those that deal with multi-hazard community preparedness or recovery planning, mitigate man-made hazards and are noted as such. It is not the intent of this notation to imply that all measures were analyzed with regards to man-made hazards or that measures were identified with that in mind. Rather, the notation merely illustrates the potential on this template for the inclusion of man-made hazard analysis.