

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 GIG HARBOR MITIGATION STRATEGY SECTION

Table of Contents

MITIGATION STRATEGY REQUIREMENTS.....	1
TABLE OF CONTENTS	2
STARTUP MITIGATION MEASURES.....	11
EXISTING MITIGATION ACTIONS	11
PLAN MAINTENANCE	11
HAZARD MITIGATION FORUM	12
PIERCE COUNTY HAZARD MITIGATION FORUM	12
CITY GOVERNMENT MITIGATION MEASURES	13
CAPABILITY IDENTIFICATION AND EVALUATION.....	13
RESPONSE AND RECOVERY INFORMATION COLLECTION	13
DEVELOP SPECIFIC RECOVERY PLANS	14
ENCOURAGE AND SUPPORT LIDAR MAPPING PROJECT	15
PREVENTATIVE MAINTENANCE: WARNING AND RESPONSE EQUIPMENT	15
ESSENTIAL RECORDS PROTECTION.....	16
DEVELOP AN ALL-HAZARD MITIGATION PLAN.....	16
MAINTAIN EMERGENCY RESOURCES.....	17
COORDINATE HAZARD MITIGATION PLANNING	17
ASSIST IN SUPPLYING NOAA WEATHER RADIOS TO THE COMMUNITY.....	18
COMPLETE A VULNERABLE POPULATION ASSESSMENT	18
CONTINUE DEVELOPMENT OF LONG-TERM PARTNERSHIPS	19
COORDINATE MITIGATION MEASURES WITH NEIGHBORING JURISDICTIONS	19
DEVELOP SPECIFIC DISASTER RESPONSE AND RECOVERY PROCEDURES FOR LOCAL SENIOR CENTER.....	20
EVACUATION PLAN DEVELOPMENT FOR CITY.....	20
FORM AN EMERGENCY MANAGEMENT TEAM (EMT).....	21
PARTICIPATE IN DISASTER RESPONSE TRAINING.....	21
ESTABLISH ALERT SYSTEMS FOR VULNERABLE POPULATIONS	22
ESTABLISH BACKUP COMMUNICATIONS CENTER	22
ESTABLISH MOBILE COMMUNICATION SYSTEM.....	23
MAINTAIN EMERGENCY OPERATIONS CENTER WITH 24-HOUR CAPABILITY	23
PROVIDE EQUIPMENT/PERSONNEL FOR STORM AND DEBRIS CLEANUP.....	24
REVIEW/UPDATE THE LOCAL EMERGENCY OPERATIONS PLAN	24
ENCOURAGE VOLUNTARY WATER CONSERVATION.....	25
ESTABLISH STANDARDS FOR SAFE RESIDENTIAL USE OF GRAY WATER.....	25
EVALUATE WATER QUANTITY AND QUALITY FROM NEW SOURCES.....	26
IMPROVE WATER CONSERVATION AND CONVEYANCE EFFICIENCIES	26
STUDY EFFECTIVENESS OF CONSERVATION MEASURES.....	27

SUPPORT LEGISLATION REQUIRING WATER AGENCIES TO DEVELOP CONTINGENCY PLANS	27
SUPPORT LEGISLATION TO PROTECT AND MANAGE GROUND WATER.....	28
SUPPORT LEGISLATION TO PROTECT IN-STREAM FLOWS	28
SUPPORT LOCAL DEVELOPMENT OF CONSERVATION PROGRAMS.....	29
WORK WITH COMMUNITY-BASED ORGANIZATIONS TO PROMOTE PUBLIC PARTICIPATION IN CONSERVATION PROGRAMS.....	29
DEVELOP CRITERIA "TRIGGERS" FOR DROUGHT-RELATED ACTIONS	30
ESTABLISH NEW DATA COLLECTION NETWORKS	30
MONITOR VULNERABLE PUBLIC WATER SUPPLIERS AND SOURCES.....	31
DEVELOP A SEISMIC EVALUATION PROGRAM: CITY FACILITIES AND SHELTERS.....	31
DEVELOP AND ENCOURAGE EARTHQUAKE HOME RETROFIT PROGRAM	32
DEVELOP DEBRIS DISPOSAL SITES.....	32
ENCOURAGE EMERGENCY SUPPLY KITS FOR HOMES, SCHOOLS AND BUSINESSES	33
ENCOURAGE SEISMIC RETROFIT OF CITY STRUCTURES AT RISK.....	33
PERFORM EARTHQUAKE RETROFIT ON FREE-STANDING WATER TANKS AND RESERVOIRS	34
FLOOD CONTROL AND RESPONSE WITH LOCAL CITIES AND TOWNS	34
SURFACE WATER REDUCTION: ABSORBENT BUILDING MATERIAL.....	35
SURFACE WATER REDUCTION: CONTROL STANDARDS	35
SURFACE WATER REDUCTION: FINANCIAL INCENTIVES	36
SURFACE WATER REDUCTION: LOW IMPACT DEVELOPMENTS.....	36
SUSTAIN TRANSPORTATION ROUTES: ROAD AND BRIDGE MITIGATION.....	37
ESTABLISH MULTI-JURISDICTIONAL PARTNERSHIPS TO REDUCE STORMWATER RUNOFF	37
DISCOURAGE CONSTRUCTION IN LANDSLIDE AREAS.....	38
ENCOURAGE LANDSLIDE LEGISLATION AND POLICIES THAT SUPPORT EFFECTIVE LANDSLIDE HAZARD MITIGATION	38
SLOPE STABILITY PROJECT	39
HAZARD AVOIDANCE THROUGH APPROPRIATE LAND-USE PRACTICES	39
DEVELOP RECOVERY PLAN FOR POWER FAILURES IN THE CITY.....	40
ENCOURAGE AND SUPPORT PRE-PLANNING FOR AREA SHELTERS	40
PRE-ARRANGE FOR REMOVAL OF HEAVY SNOW LOADS FROM ROOFS IN DANGER OF COLLAPSE.....	41
PURCHASE AND INSTALL BACKUP POWER GENERATORS FOR KEY CITY FACILITIES	41
SUPPORT BURIED POWER LINE PROGRAMS.....	42
ADOPT "FIREWISE" COMMUNITIES PLANNING AND DEVELOPMENT AND HOLD WORKSHOPS ON "FIREWISE" PROGRAM	42
DEVELOP MUTUAL AID AND MEMORANDUMS OF UNDERSTANDING (MOU's) WITH SURROUNDING JURISDICTIONS	43
ENFORCE BURN BANS AND OTHER BURNING RESTRICTIONS IN THE COMMUNITY.....	43
EVALUATE ACCESS AND EGRESS ISSUES, GATES, BRIDGES AND TURNAROUNDS	44
PRE-DETERMINE LEVEL OF FIRE SUPPRESSION NEEDED AND PRE-PLAN FOR AREAS OF HIGHEST HAZARD OR POTENTIAL.....	44
PROGRAM TO REDUCE IGNITABILITY OF STRUCTURES AND PLANS TO REMOVE DEAD VEGETATION AND POTENTIAL FUELS IN HAZARD ZONES.....	45
UNDERSTAND LOCAL ACTIVATION PROCEDURES FOR SPECIAL TASK FORCES	45
WORK WITH THE INSURANCE INDUSTRY TO PROVIDE FINANCIAL INCENTIVES TO HOMEOWNER'S WITH MAINTAINED DEFENSIBLE SPACE.....	46
BACKUP CITY FILES AND RECORDS AND STORE IN ALTERNATE LOCATION.....	46
DEVELOP/MAINTAIN HAZARDOUS MATERIALS PROGRAM	47
DEVELOP AND MAINTAIN SECURITY AT WATER PLANTS.....	47
SUPPORT COMMUNITY HAZMAT AGREEMENTS AND REGIONAL HAZMAT TEAMS.....	48
ENHANCE RESPONSE PLANS FOR BIOLOGICAL/CHEMICAL TERRORISM	48
INSTALL BULLETPROOF COURT AND MAGISTRATE BENCHES.....	49
PLACE LAW ENFORCEMENT OFFICERS IN SCHOOLS	49
PROVIDE PROTECTIVE SYSTEMS OR EQUIPMENT FOR CYBER OR PHYSICAL RISKS	50
REDUNDANCY/DUPLICATION OF ESSENTIAL PERSONNEL, CRITICAL SYSTEMS, EQUIPMENT, INFORMATION, OPERATIONS AND MATERIALS.....	50

REVIEW SECURITY OF CRITICAL AND POTENTIAL TARGET FACILITIES.....	51
UPDATE ALL ANTI-VIRUS SOFTWARE.....	51
PUBLIC EDUCATION MITIGATION MEASURES.....	52
ESTABLISH "GOOD NEIGHBOR" PROGRAMS FOR WINTER STORMS AND SEVERE WEATHER	52
EDUCATE LOCAL COMMUNITY GROUPS ON NATURAL HAZARDS.....	52
COMPREHENSIVE PUBLIC EDUCATION CAMPAIGNS: POST DISASTER	53
PROVIDE PC NET TRAINING.....	53
PUBLIC EDUCATION CAMPAIGN, ALL HAZARDS	54
DEVELOP PUBLIC EDUCATION FOR SEVERE STORMS AND WIND STORMS.....	54
DEVELOP PUBLIC EDUCATION: BUS DRIVER EVACUATION TRAINING PROGRAM.....	55
DEVELOP PUBLIC EDUCATION FOR VOLCANIC ASHFALL	55
DEVELOP EDUCATIONAL MATERIALS REGARDING WILDLAND FIRE SAFE PRACTICES	56
EDUCATE DEVELOPERS AND BUILDERS ON WILDFIRE HAZARDS AND SAFE BUILDING PRACTICES.....	56
ENDNOTES.....	57

Table 5-1 City of Gig Harbor Mitigation Strategy Matrix

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ^{1, 2}	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>)	Gig Harbor	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor	Ongoing	✓	✓	✓	✓	✓	✓
HMF	1. Pierce County Hazard Mitigation Forum (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	PC DEM; Gig Harbor	Ongoing	✓	✓	✓	✓	✓	✓
City Government	1. Capability Identification and Evaluation (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor	1-2	N/A					
	2. Response and Recovery Information Collection (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	PCDEM, Gig Harbor, Regional Partners	1-2		✓	✓			✓
	3. Develop Specific Recovery Plans (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor with Chamber of Commerce	5	✓	✓	✓			✓
	4. Encourage and Support LIDAR Mapping Project (<i>E,L,V,F,T</i>)	PCDEM, PCIS, LIDAR Consortium and Gig Harbor	5	N/A					
	5. Preventative Maintenance: Warning and Response Equipment (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor and Regional Partners	1-2	✓	✓				
	6. Essential Records Protection (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor	5		✓	✓			✓
	7. Develop an All-Hazard Mitigation Plan (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor	5	N/A					
	8. Maintain Emergency Resources (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor	Ongoing	✓	✓	✓	✓		✓
	9. Coordinate Hazard Mitigation Planning (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor and the HMPT	Ongoing	✓	✓	✓	✓	✓	✓
	10. Assist in Supplying NOAA Weather Radios to the Community (<i>E,F,V,T, SW</i>)	Gig Harbor and Gig Harbor Fire	5	✓		✓		✓	
	11. Complete a Vulnerable Population Assessment (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor with Regional Partners	1-2	✓		✓		✓	
	12. Continue Development of Long-Term Partnerships (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor with Regional Partners	Ongoing	✓	✓	✓		✓	
	13. Coordinate mitigation Measures with Neighboring Jurisdictions (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor	1-2	✓		✓		✓	✓
	14. Develop Specific Disaster Response & Recovery Procedures for Local Senior Center (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor	1-2	✓		✓		✓	

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ^{1, 2}	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	15. Evacuation Plan Development for City (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor, PCDEM, Gig Harbor Police	1-2	✓		✓		✓	
	16. Form an Emergency Management Team (EMT) (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	1-2	✓	✓	✓			
	17. Participate in Disaster Response Training (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor and Regional Partners	Ongoing	✓	✓	✓		✓	
	18. Establish Alert Systems for Vulnerable Populations (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor and Regional Partners	1-2	✓		✓			
	19. Establish Backup Communications Center (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	5	✓	✓	✓			✓
	20. Establish Mobile Communication System (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	5	✓	✓				✓
	21. Maintain Emergency Operations Center with 24 Hour Capability (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Gig Harbor	5	✓	✓	✓			
	22. Provide Equipment/Personnel for Storm and Debris Cleanup (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor - Public Works	5	✓	✓		✓		
	23. Review/Update the Local Emergency Operations Plan (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	1-2	✓	✓	✓			
	24. Encourage Voluntary Water Conservation (<i>D,WUI,SW,MM</i>)	Gig Harbor	1-2	✓	✓				
	25. Establish Standards for Safe Residential Use of Gray Water (<i>D,WUI,SW,MM</i>)	Gig Harbor - Water Division	1-2	✓		✓	✓	✓	
	26. Evaluate Water Quantity and Quality from New Sources (<i>D,WUI,SW,MM</i>)	Gig Harbor - Water Division	5	✓	✓	✓			
	27. Improve Water Conservation and Conveyance Efficiencies (<i>D,WUI,SW,MM</i>)	Gig Harbor - Water Division	Ongoing	✓	✓				
	28. Study Effectiveness of Conservation Measures (<i>D,WUI,SW,MM</i>)	Gig Harbor - Water Division	Ongoing	✓	✓	✓			
	29. Support Legislation Requiring Water Agencies to Develop Contingency Plans (<i>D,WUI,SW,MM</i>)	Gig Harbor - Water Division	1-2	✓	✓	✓			
	30. Support Legislation to Protect and Manage Ground Water (<i>D,WUI,SW,MM</i>)	Gig Harbor - Water Division	1-2	✓	✓	✓	✓		

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ^{1, 2}	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	31. Support Legislation to Protect In-Stream Flows (<i>D, WUI, SW, MM</i>)	Gig Harbor - Water Division	Ongoing	✓		✓	✓		
	32. Support Local Development of Conservation Programs (<i>D, WUI, SW, MM</i>)	Gig Harbor - Water Division	Ongoing	✓	✓	✓	✓		
	33. Work with Community-Based Organizations to Promote Public Participation in Conservation Programs (<i>D, WUI, SW, MM</i>)	Gig Harbor - Water Division	Ongoing	✓	✓	✓			
	34. Develop Criteria “Triggers” for Drought-Related Actions (<i>D, WUI, SW, MM</i>)	Gig Harbor - Water Division	1-2	✓	✓	✓			
	35. Establish New Data Collection Networks (<i>D, WUI, SW, MM</i>)	Gig Harbor	1-2	✓	✓	✓			
	36. Monitor Vulnerable Public Water Suppliers and Sources (<i>D, WUI, SW, MM</i>)	Gig Harbor - Water Division	Ongoing	✓	✓	✓			
	37. Develop a Seismic Evaluation Program: City Facilities and Shelters (<i>E, L, T, V, F, WUI, SW, MM</i>)	Gig Harbor - Buildings	1-2	✓		✓		✓	
	38. Develop and Encourage Earthquake Home Retrofit Program (<i>E, SW, MM</i>)	Gig Harbor - Buildings	1-2	✓		✓		✓	
	39. Develop Debris Disposal Sites (<i>E, L, V, F, WUI, SW, MM</i>)	Gig Harbor	1-2	✓	✓	✓			
	40. Encourage Emergency Supply Kits for Homes, Schools and Businesses (<i>E, SW, MM</i>)	Gig Harbor	Ongoing	✓		✓		✓	
	41. Encourage Seismic Retrofit of City Structures at Risk (<i>E, SW, MM</i>)	Gig Harbor - Buildings	5	✓	✓				
	42. Perform Earthquake Retrofit on Free-Standing Water Tanks and Reservoirs (<i>E, SW, MM</i>)	Gig Harbor - Water Division	5	✓	✓	✓			
	43. Flood Control and Response with Local Cities and Towns (<i>F, SW, MM</i>)	Gig Harbor	Ongoing	✓	✓	✓			
	44. Surface Water Reduction: Absorbent Building Material (<i>F, SW, MM</i>)	Gig Harbor - Buildings	5	✓		✓			
	45. Surface Water Reduction: Control Standards (<i>F, SW, MM</i>)	Gig Harbor	1-2	✓	✓	✓			
	46. Surface Water Reduction: Financial Incentives (<i>F, SW, MM</i>)	Gig Harbor	1-2	✓		✓		✓	
	47. Surface Water Reduction: Low Impact Developments (<i>F, SW, MM</i>)	Gig Harbor	1-2	✓		✓		✓	
	48. Sustain Transportation Routes: Road and Bridge Mitigation (<i>E, L, V, F, WUI, SW, MM</i>)	Gig Harbor	5	✓	✓	✓		✓	

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ^{1, 2}	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	49. Establish Multi-Jurisdictional Partnerships to Reduce Stormwater Runoff (<i>F,SW,MM</i>)	Gig Harbor	5	✓	✓	✓			
	50. Discourage Construction in Landslide Areas (<i>E,L,SW,MM</i>)	Gig Harbor - Buildings/Council	1-2	✓				✓	
	51. Encourage Landslide Legislation and Policies that Support Effective Landslide Hazard Mitigation (<i>E,L,SW,MM</i>)	Gig Harbor	1-2	✓	✓	✓			
	52. Slope Stability Project (<i>E,L,SW,MM</i>)	Gig Harbor	1-2	✓		✓	✓		
	53. Hazard Avoidance through Appropriate Land-Use Practices (<i>E,L,T,SW,MM</i>)	Gig Harbor	Ongoing	✓		✓			
	54. Develop Recovery Plan for Power Failures in the City (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor with Regional Partners	1-2	✓	✓	✓		✓	
	55. Encourage and Support Pre-Planning for Area Shelters (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor, PCDEM	1-2	✓		✓		✓	
	56. Pre-Arrange for Removal of Heavy Snow Loads from Roofs in Danger of Collapse (<i>L,SW,MM</i>)	Gig Harbor with Regional Partners	1-2	✓	✓	✓		✓	
	57. Purchase and Install Backup Power Generators for Key City Facilities (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	1-2	✓	✓				✓
	58. Support Buried Power Line Programs (<i>E,L,V,WUI,SW,MM</i>)	Gig Harbor	Ongoing	✓	✓	✓		✓	
	59. Adopt “Firewise” Communities Planning and Development and Hold Workshops on “Firewise” Program (<i>WUI,SW,MM</i>)	Gig Harbor with Regional Partners	1-2	✓	✓	✓		✓	✓
	60. Consider Mutual Aid and Memorandums of Understanding (MOU’s) with Surrounding Jurisdictions (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor with Regional Partners	Ongoing	✓	✓	✓		✓	
	61. Enforce Burn Bans and Other Burning Restrictions in the Community (<i>WUI,SW,MM</i>)	Gig Harbor with Gig Harbor Fire District	Ongoing	✓		✓		✓	
	62. Evaluate Access and Egress Issues, Gates, Bridges and Turnarounds (<i>WUI,SW,MM</i>)	Gig Harbor with Gig Harbor Fire District	Ongoing	✓	✓	✓		✓	
	63. Pre-Determine Level of Fire Suppression Needed and Pre-Plan for Areas of Highest Hazard or Potential (<i>WUI,SW,MM</i>)	Gig Harbor with Gig Harbor Fire District	1-2	✓	✓	✓		✓	
	64. Program to Reduce Ignitability of Structures and Plans to Remove Dead Vegetation and Potential Fuels in Hazard Zones (<i>WUI,SW,MM</i>)	Gig Harbor with Gig Harbor Fire District	Ongoing	✓	✓	✓		✓	

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ^{1, 2}	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	65. Understand Local Activation Procedures for Special Task Forces (<i>WUI,SW,MM</i>)	Gig Harbor with PCDEM	1-2	✓	✓	✓			
	66. Work with the Insurance Industry to Provide Financial Incentives to Homeowner's with Maintained Defensible Space (<i>WUI,SW,MM</i>)	Gig Harbor with Regional Partners	1-2	✓		✓		✓	
	67. Backup City Files and Records and Store in Alternate Location (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	1-2		✓				
	68. Develop/Maintain Hazardous Materials Program (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor and Regional Partners	1-2	✓	✓	✓	✓		
	69. Develop and Maintain Security at Water Plants (<i>MM</i>)	Gig Harbor	1-2	✓	✓			✓	
	70. Support Community HAZMAT Agreements and Regional HAZMAT Teams (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor and Regional Partners	Ongoing	✓	✓	✓		✓	
	71. Enhance Response Plans for Biological/Chemical Terrorism (<i>MM</i>)	Gig Harbor with Regional Partners	1-2	✓	✓	✓		✓	
	72. Install Bulletproof Court and Magistrate Benches (<i>MM</i>)	Gig Harbor	5	✓	✓	✓			
	73. Place Law Enforcement Officers in Schools (<i>MM</i>)	Gig Harbor with Police and School District	5	✓		✓		✓	
	74. Provide Protective Systems or Equipment for Cyber or Physical Risks (<i>E,SW,MM</i>)	Gig Harbor	1-2	✓	✓				
	75. Redundancy/Duplication of Essential Personnel, Critical Systems, Equipment, Information, Operations and Materials (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	1-2	✓	✓				
	76. Review Security of Critical and Potential Target Facilities (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	1-2	✓	✓				
	77. Update All Anti-Virus Software (<i>MM</i>)	Gig Harbor	1-2	✓	✓				
Public Education	1. Establish "Good Neighbor" Programs for Winter Storms and Severe Weather (<i>E,L,V,F,WUI,SW,MM</i>)	Gig Harbor and PC DEM	1-2	✓		✓		✓	
	2. Educate Local Community Groups on Natural Hazards (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	Ongoing	✓		✓		✓	
	3. Comprehensive Public Education Campaigns: Post Disaster (<i>E,L,T,V,F,WUI,SW,MM</i>)	Gig Harbor	Ongoing	✓		✓		✓	
	4. Provide PC NET Training (<i>E,T,V,F,SW,MM</i>)	PCDEM with Gig Harbor	1-2	✓	✓	✓		✓	
	5. Public Education Campaign, All Hazards	Gig Harbor with PC DEM and Regional Partners	Ongoing	✓		✓		✓	

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ^{1, 2}	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	6. Develop Public Education for Severe Storms and Wind Storms (<i>F, SW, MM</i>)	Gig Harbor	1-2	✓		✓		✓	
	7. Develop Public Education: Bus Driver Evacuation Training Program (<i>E, L, T, V, F, WUI, SW, MM</i>)	Gig Harbor with Peninsula School District and Pierce Transit	1-2	✓		✓		✓	
	8. Develop Public Education for Volcanic Ashfall (<i>V, SW, MM</i>)	Gig Harbor	1-2	✓	✓	✓		✓	
	9. Develop Educational Materials Regarding Wildland Fire Safe Practices (<i>WUI, SW, MM</i>)	Gig Harbor	1-2	✓	✓	✓	✓	✓	
	10. Educate Developers and Builders on Wildfire Hazards and Safe Building Practices (<i>WUI, SW, MM</i>)	Gig Harbor with Regional Partners	1-2	✓		✓			

Startup Mitigation Measures

Existing Mitigation Actions

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

Gig Harbor 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 Gig Harbor
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

Gig Harbor 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 Gig Harbor
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

Gig Harbor 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 Gig Harbor
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

Gig Harbor 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 Gig Harbor
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.

Response and Recovery Information Collection

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

Gig Harbor will work in conjunction with the County to establish Memoranda of Understanding (MOUs) with departments and agencies engaged in response and recovery activities to share information in a standardized database. This will establish a framework for cataloguing recovery data and better quantifying vulnerability for mitigation purposes. This could be accomplished through GIS programs.

1. **Goal(s) Addressed** = 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)** = PC DEM, Gig Harbor (Public Works, Fire) PC PWU, PC GIS, PC Sheriff, American Red Cross and Tacoma Pierce Health Department
5. **Timeline** = Short-term
6. **Benefit** = City of Gig Harbor and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Specific Recovery Plans

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

Gig Harbor will develop a comprehensive Disaster Recovery Plan. This will be a pre-event plan for post-disaster recovery and reconstruction, composed of policies, plans, actions and responsibilities. It will include an element of business resumption and long-term economic sustainability. There will be an emphasis on the transition of recovery to mitigation and the synergy of these two phases of emergency management.

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** = PDM and Economic Development Administration (US Chamber of Commerce) grants. Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Chamber of Commerce
5. **Timeline** = Long-term
6. **Benefit** = City of Gig Harbor and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Encourage and Support LIDAR Mapping Project

Hazards: E, L, T, V, F

The County will incorporate the findings of the LIDAR (Light Detection and Ranging) mapping project into its vulnerability assessment. The City of Gig Harbor will support the Puget Sound LIDAR Consortium's mapping of the Puget Sound region. LIDAR improves the accuracy of topographical maps dramatically and in other areas has revealed the existence of previously unknown fault scarps on the Kitsap Peninsula. LIDAR mapping can effectively reveal the existence of similar hazards in Pierce County, or conversely, help confirm that they are not present, improving the jurisdiction's ability to assess geologic hazards for land use management and emergency management purposes.

1. **Goal(s) Addressed** = N/A – Goals addressed are contingent upon the area-specific mitigation measures resulting from this priority.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = Pierce County DEM, PC IS (GIS), LIDAR Consortium and City of Gig Harbor
5. **Timeline** = Long-Term
6. **Benefit** = County wide and Regional Partners
7. **Life of Measure** = Contingent upon best available science and technology
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Preventative Maintenance: Warning and Response Equipment

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

Gig Harbor will develop a plan to ensure the proper functioning of disaster warning and response equipment used, owned, or stored by the City. This will ensure that the necessary resources used in response activities are properly functioning in the event that they are needed.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
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 Gig Harbor and Regional Partners (Public Works and Utilities)
5. **Timeline** = Short-term
6. **Benefit** = City of Gig Harbor and other Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Essential Records Protection

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

Gig Harbor will ensure that all essential records are protected and/or provided with safe back-up. This will be accomplished by developing an essential records protection schedule and a records disaster prevention, response, and recovery procedures.

1. **Goal(s) Addressed** = 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 Gig Harbor
5. **Timeline** = Long-term
6. **Benefit** = City of Gig Harbor, Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop an All-Hazard Mitigation Plan

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

Gig Harbor will expand this Natural Hazard Mitigation Plan into an All-Hazard Mitigation Plan. This plan provides a template for mitigating disasters on both a jurisdiction-wide level and a critical facility level. It was designed to consolidate a great deal of information into easy to understand profiles of hazards and critical facilities. Combining it with man made hazards and terrorism threat assessments will result in a more complete analysis of the City's vulnerabilities and mitigation strategies. In doing so, duplications of mitigation measures can be reduced and a more comprehensive prioritization of projects be achieved. Consolidating this information into one document will allow decision makers and those involved in emergency management to better coordinate resources and eliminate duplication in efforts to reduce vulnerabilities and respond to and recover from disasters. The all-hazard mitigation plan represents an essential goal in the efforts at all levels of government to achieve a more coordinated system that is able to adapt to the changing threats and vulnerabilities of our time.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Long-Term
6. **Benefit** = City of Gig Harbor and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Maintain Emergency Resources

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

The City will maintain the resources needed to respond to emergency situations. This includes the following:

- Continue implementation of the Gig Harbor Comprehensive Emergency Management Plan so that the staff, equipment, communication tools, technology, materials, and contractors needed to respond to emergency events effectively are prepared.
 - Continue to update emergency evaluation/hot spot areas.
 - Continue to coordinate with other local, state, and federal agencies to review and update emergency response efforts.
1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources.
 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 Gig Harbor
 5. **Timeline** = Ongoing
 6. **Benefit** = City of Gig Harbor, Regional Partners
 7. **Life of Measure** = TBD
 8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Coordinate Hazard Mitigation Planning

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

The City will maintain the Hazard Mitigation Planning Team (HMPT) as a body to function as a means of coordinating, evaluating and updating mitigation planning efforts among departments with mitigation capabilities. This will ensure efficient use of resources and a more cooperative approach to making a disaster resistant community. The HMPT will address mitigation issues that might be included in the normal budgetary process. Converging yearly with the normal budgetary processes it will consider specific mitigation issues.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters.
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 Gig Harbor and the HMPT
5. **Timeline** = Ongoing
6. **Benefit** = Community wide and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Assist in Supplying NOAA Weather Radios to the Community

Hazards: E, T, V, F, SW¹

In Pierce County, NOAA Weather Radios are now being used as the main delivery mechanisms for hazard warning information to the public. The hazard warning information can range from severe storms to volcanic lahars. This measure would develop a program to assist in distributing NOAA Weather Radios to the citizens of Gig Harbor.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = \$50 per radio
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor and Gig Harbor Fire
5. **Timeline** = Long-term
6. **Benefit** = City and citizens, first responders, regional partners
7. **Life of Measure** = 10 years
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Complete a Vulnerable Population Assessment

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

Gig Harbor will work with Pierce County and other regional partners to identify locations of vulnerable populations, i.e., elderly, disabled and other populations. Gig Harbor will maintain a list of residents with special needs so that these vulnerabilities may be addressed and potentially reduced in disaster situations.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and Residents, Special Populations, Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Continue Development of Long-Term Partnerships

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

The City of Gig Harbor has developed crucial and supportive partnerships with many neighboring jurisdictions, including Pierce County DEM, Pierce County PALS, Pierce County Public Works and Utilities, Gig Harbor Fire and Medic One, Key Peninsula Fire District, Peninsula School District and many others. The measure would involve a continued development of these partnerships and would provide a more sustainable and effective approach to mitigation planning.

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 or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Ongoing
6. **Benefit** = City and residents, first responders, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Coordinate Mitigation Measures with Neighboring Jurisdictions

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

The measure would attempt to coordinate mitigation measures with other neighboring jurisdictions which would allow for a more sustainable and effective approach to mitigation planning in Pierce County. As a member of the Pierce County Hazard Mitigation Forum (PCHMF), measures put forth in the Region 5 Hazard Mitigation Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = Minimal
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and residents, businesses, schools, regional partners
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Develop Specific Disaster Response and Recovery Procedures for Local Senior Center

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

The City will develop response and recovery procedures that speak to the specific needs of the population served by the local Senior Center.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and citizens, senior citizens, first responders, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Evacuation Plan Development for City

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City will work with Pierce County and local Police to develop evacuation plans for neighborhoods in the City. The increasing population has led to strains on the various transportation routes. Should any portion of this area need evacuating, the process will pose many challenges. With proper planning and education, many of the challenges can be avoided.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor, PCDEM and Gig Harbor Police
5. **Timeline** = Short-term
6. **Benefit** = City and residents, businesses, first responders, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Form an Emergency Management Team (EMT)

Hazards: E, L, T, V, F, WUI, SW¹, MM²

City of Gig Harbor will establish an Emergency Management Team (EMT). The EMT will function as a means of coordinating, evaluating and updating mitigation planning efforts. This will ensure efficient use of resources and a more cooperative approach to making a disaster resistant City. The EMT will meet annually to converge with the normal budgetary process. This is addressed in the Plan Maintenance Section of this Plan.

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 Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and residents; community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Participate in Disaster Response Training

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City will build on its existing emergency/disaster response training and will coordinate drills and trainings with other local jurisdictions. This will help ensure that first responders, government employees, teachers and students know what to do and how to act during times of emergency/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** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Ongoing
6. **Benefit** = City and residents, first responders, schools and businesses, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Establish Alert Systems for Vulnerable Populations

Hazards: E, L, T, V, F, WUI, SW¹, MM²

Establish special alert systems or a means to notify vulnerable populations in times of danger.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Time and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and vulnerable populations, citizens and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Establish Backup Communications Center

Hazards: E, L, T, V, F, WUI, SW¹, MM²

In the event of damage to the primary communications center for the City, Gig Harbor would like to develop a secondary, backup communications center.

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** = Time, materials and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budgets and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Long-Term
6. **Benefit** = City and citizens, first responders and regional partners
7. **Life of Measure** = 10 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Establish Mobile Communication System

Hazards: E, L, T, V, F, WUI, SW¹, MM²

Establish mobile communication system for the City of Gig Harbor.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote a Sustainable Economy.
2. **Cost of Measure** = Time, materials and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budgets and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Long-Term
6. **Benefit** = City and citizens, first responders and regional partners
7. **Life of Measure** = 10 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Maintain Emergency Operations Center with 24-hour Capability

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

The City of Gig Harbor has an Emergency Operations Center in coordination with other emergency services in the City. With staffing and training it would be able to maintain operations 24-7 in the event of an emergency or disaster.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Time, materials and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Long-term
6. **Benefit** = City and residents, first responders and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Provide Equipment/Personnel for Storm and Debris Cleanup

Hazards: E, L, T, V, F, WUI, SW¹, MM²

After any major wind storm or severe storm of any kind, there is always an abundance of debris left behind. The City would like to develop a good program and purchase specific equipment to aid in the cleanup process after an event. This would also be useful in the event of flood debris, landslides and volcanic ash.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Protect and Restore the Natural Environment.
2. **Cost of Measure** = Time, materials and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budgets and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Public Works
5. **Timeline** = Long-Term
6. **Benefit** = City and citizens, first responders and regional partners
7. **Life of Measure** = 20 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Review/Update the Local Emergency Operations Plan

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City has an Emergency Operations Plan but it needs to be reviewed and probably will need to be updated. It is our intention to do this at the earliest possible date.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, first responders, citizens and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Encourage Voluntary Water Conservation

Hazards: D, WUI, SW¹, MM²

The City of Gig Harbor will educate and encourage water conservation in the City in an effort to avoid drought and to be able to provide services in times of need.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, first responders, citizens and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Establish Standards for Safe Residential Use of Gray Water

Hazards: D, WUI, SW¹, MM²

The City will encourage the use of “gray water” in times of drought and water shortage situations and will work to produce information to distribute to the public on this subject.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Water Division
5. **Timeline** = Short-term
6. **Benefit** = City and residents, first responders, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Evaluate Water Quantity and Quality from New Sources

Hazards: D, WUI, SW¹, MM²

The City of Gig Harbor will evaluate new sources of potential water supply for the City and its citizens that are safe, plentiful and reasonable to use.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Water Division
5. **Timeline** = Long-term
6. **Benefit** = City and residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Improve Water Conservation and Conveyance Efficiencies

Hazards: D, WUI, SW¹, MM²

The City will develop a plan to improve water conservation and improve the efficiency of distribution.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
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 Gig Harbor - Water Division
5. **Timeline** = Ongoing
6. **Benefit** = City and citizens, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Study Effectiveness of Conservation Measures

Hazards: D, WUI, SW¹, MM²

The City will perform a study to determine the effectiveness of existing conservation measures and review potential conservation measures that may be implemented in the future.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Water Division
5. **Timeline** = Ongoing
6. **Benefit** = City and citizens, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Support Legislation Requiring Water Agencies to Develop Contingency Plans

Hazards: D, WUI, SW¹, MM²

The City believes it is imperative that water providers should have legal requirements to provide service to customers under disaster situations by having comprehensive continuity of business plans in place.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Water Division
5. **Timeline** = Short-term
6. **Benefit** = City and citizens, community, first responders, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Support Legislation to Protect and Manage Ground Water

Hazards: D, WUI, SW¹, MM²

The City will continue to support legislation to protect and manage ground water.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Protect and Restore the Natural Environment.
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 Gig Harbor - Water Division
5. **Timeline** = Short-term
6. **Benefit** = City and residents, community, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Support Legislation to Protect In-Stream Flows

Hazards: D, WUI, SW¹, MM²

The City will continue to support legislation to protect in-stream flows.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Protect and Restore the Natural Environment.
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 Gig Harbor - Water Division
5. **Timeline** = Ongoing
6. **Benefit** = City and residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Support Local Development of Conservation Programs

Hazards: D, WUI, SW¹, MM²

The City supports local development of water conservation programs throughout the community and with local water purveyors.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Protect and Restore the Natural Environment.
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 Gig Harbor - Water Division
5. **Timeline** = Ongoing
6. **Benefit** = City and residents, community, first responders and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Work with Community-Based Organizations to Promote Public Participation in Conservation Programs

Hazards: D, WUI, SW¹, MM²

The City will work with various community-based organizations to promote the public participation in water and other types of conservation programs that protect natural resources.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Water Division
5. **Timeline** = Ongoing
6. **Benefit** = City and citizens, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Criteria “Triggers” for Drought-Related Actions

Hazards: D, WUI, SW¹, MM²

The City will be proactive in working with local water purveyors to determine those “triggers” for drought conditions that should raise awareness and determine corrective measures and response actions.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Water Division
5. **Timeline** = Short-term
6. **Benefit** = City and residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Establish New Data Collection Networks

Hazards: D, WUI, SW¹, MM²

The City would like to establish new data collection networks for specific information on which to base decisions going forward.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Monitor Vulnerable Public Water Suppliers and Sources

Hazards: D, WUI, SW¹, MM²

The City will regularly monitor vulnerable public water supplies and sources.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Water Division
5. **Timeline** = Ongoing
6. **Benefit** = City and residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop a Seismic Evaluation Program: City Facilities and Shelters

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City will develop and promote a seismic evaluation program for all critical city facilities and for City shelters to ensure availability in times of disaster.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Buildings
5. **Timeline** = Short-term
6. **Benefit** = City and staff, residents and community, regional partners
7. **Life of Measure** = 5 years per study
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop and Encourage Earthquake Home Retrofit Program

Hazards: E, SW¹, MM²

The County Buildings Department has a plan set adopted from Seattle to guide homeowners in the seismic retrofit of their homes. This program, created for homes constructed under older building codes when tie-downs were not required, is available to any homeowner who wants to connect his or her house to the foundation. The City Building Department will make information available concerning the program and regarding engineers and contractors that will evaluate and/or provide retrofit services for residents of older homes in the City. The City will also schedule a workshop on the retrofit program for the public.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Buildings
5. **Timeline** = Short term
6. **Benefit** = City and residents, first responders, community and regional partners
7. **Life of Measure** = 25 years for retrofit structures
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Debris Disposal Sites

Hazards: E, L, V, F, WUI, SW¹, MM²

Many types of disasters create large quantities of debris that must be properly disposed of. Earthquakes and floods can leave behind entire structures that are destroyed and must be demolished and removed. For a large disaster much of this debris will need to be moved to temporary collection sites prior to final disposal. The City will identify one or more temporary locations for such debris removal.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and residents, businesses, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Encourage Emergency Supply Kits for Homes, Schools and Businesses

Hazards: E, SW¹, MM²

The City supports and promotes emergency supply kits for all residents, schools and businesses in the City and offers information on how to create a kit and other preparedness information.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Ongoing
6. **Benefit** = City and residents, schools and businesses, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Encourage Seismic Retrofit of City Structures at Risk

Hazards: E, SW¹, MM²

The City would like to perform a seismic study of city owned facilities and determine those that are at risk for earthquake damage. Once the study is completed, the City would like to seek funding to seismically retrofit at risk structures and bring them up to current codes.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = Cost of study, engineering and construction
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Buildings
5. **Timeline** = Long-term
6. **Benefit** = City and staff, residents and community, regional partners
7. **Life of Measure** = 5 years for study, 50 years for retrofit
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Perform Earthquake Retrofit on Free-Standing Water Tanks and Reservoirs

Hazards: E, SW¹, MM²

Free-standing water tanks and reservoirs do not perform well in earthquakes. They will benefit a great deal from earthquake clips and specific engineered solutions to keep them in place during times of severe ground movement. The City would like to seek funding to seismically retrofit existing water tanks and reservoirs that are at risk.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor - Water Division
5. **Timeline** = Long-term
6. **Benefit** = City and staff, residents and community, first responders and regional partners
7. **Life of Measure** = 25 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Flood Control and Response with Local Cities and Towns

Hazards: F, SW¹, MM²

The City of Gig Harbor will coordinate and work with other local jurisdictions to be proactive regarding flood control and response.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Ongoing
6. **Benefit** = City and staff, community and residents, first responders and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Surface Water Reduction: Absorbent Building Material

Hazards: F, SW¹, MM²

The City will assess the long-term cost-benefit of standard use of absorbent building material in place of traditional concrete for sidewalks, parking lots, etc. For example, Perco-Crete can absorb at least 13 inches of water per hour—up to 18 percent of its mass—before letting water pass through.³ Perco-Crete also differs from porous concrete because water passes through Perco-Crete only after saturating it. The Cities of Olympia and Everett have tested this product.

1. **Goal(s) Addressed** = Protect Life and Property; 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 Gig Harbor - Buildings
5. **Timeline** = Long-term
6. **Benefit** = City and staff, residents, contractors, first responders and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Surface Water Reduction: Control Standards

Hazards: F, SW¹, MM²

The City will adopt stricter stormwater control standards for new developments. This will help reduce peak flow impacts commonly associated with increased impervious cover.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Surface Water Reduction: Financial Incentives

Hazards: F, SW¹, MM²

The City will offer financial incentives in the form of stormwater utility fee credits to businesses that voluntarily reduce their stormwater impacts. This will help to reduce peak flow impacts commonly associated with increased impervious cover.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, residents and community, businesses, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Surface Water Reduction: Low Impact Developments

Hazards: F, SW¹, MM²

The City will develop and implement Low-Impact Development Standards, and will encourage Low-Impact Development through model projects. This will help to reduce peak flow impacts commonly associated with increased impervious cover.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and residents, community, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Sustain Transportation Routes: Road and Bridge Mitigation

Hazards: E, L, V, F, WUI, SW¹, MM²

The City will adopt construction guidelines which will reduce the potential failure of key bridges and transportation routes. Projects will follow a prioritization of high risk routes or features for replacement or retrofit. This will focus on long-term closure of key bridges and transportation routes due to flooding.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Long-term
6. **Benefit** = City and residents, community, first responders, regional partners
7. **Life of Measure** = 25 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Establish Multi-Jurisdictional Partnerships to Reduce Stormwater Runoff

Hazards: F, SW¹, MM²

Working together with other local jurisdictions, the City can establish partnerships and cooperation to adopt regulations and reduce stormwater runoff in the community.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Long-term
6. **Benefit** = City and staff, residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Discourage Construction in Landslide Areas

Hazards: E, L, SW¹, MM²

The City will conduct a review, with the intent to further discourage community development in areas of known landslide hazards, of the City's land use regulations.

1. **Goal(s) Addressed** = Protect Life and Property; Increase Public Preparedness for Disasters.
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 Gig Harbor - Buildings/Council
5. **Timeline** = Short-term
6. **Benefit** = City and staff, residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Encourage Landslide Legislation and Policies that Support Effective Landslide Hazard Mitigation

Hazards: E, L, SW¹, MM²

The City will encourage landslide legislation on both the local and state levels and promote policies that support effective landslide hazard mitigation.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and residents, community, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Slope Stability Project

Hazards: E, L, SW¹, MM²

The City will encourage slope stability projects to prevent erosion and landslides. A key component is to utilize trees and shrubs on slopes to assist in anchoring the slope surfaces to the underlying soils. Gig Harbor will encourage slope stability utilizing tree and shrub planting.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Protect and Restore the Natural Environment.
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 Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, residents, first responders, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Hazard Avoidance through Appropriate Land-Use Practices

Hazards: E, L, T, SW¹, MM²

The City of Gig harbor has in the past and continues to promote specific land-use practices to avoid hazards and building in hazardous areas.

1. **Goal(s) Addressed** = Protect Life and Property; 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 Gig Harbor
5. **Timeline** = Ongoing
6. **Benefit** = City and residents, first responders, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Recovery Plan for Power Failures in the City

Hazards: E, L, T, V, F, WUI, SW¹, MM²

As part of overall Operational Planning, develop recovery plans for the aftermath of a major area-wide power failure.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and staff, residents, community, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Encourage and Support Pre-Planning for Area Shelters

Hazards: E, L, T, V, F, WUI, SW¹, MM²

Working with regional partners and Pierce County DEM, plan for and support local area shelters to be opened on short notice in the event of a disaster requiring any kind of evacuation or relocation for residents.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Pierce County DEM
5. **Timeline** = Short-term
6. **Benefit** = City and residents, community, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Pre-Arrange for Removal of Heavy Snow Loads from Roofs in Danger of Collapse

Hazards: L, SW¹, MM²

Western Washington does not normally get heavy snow on an annual basis, but older buildings are often not able to withstand heavy snow loads on the roof when the occasional storm hits. It is prudent to pre-plan for removal of heavy snow from city facilities, and also to know of contractors in the event residents, marinas, etc. need assistance.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and citizens, first responders and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Purchase and Install Backup Power Generators for Key City Facilities

Hazards: E, L, T, V, F, WUI, SW¹, MM²

Almost any disaster can cause power failures and shut down business if a generator is not available. The City would intend to purchase and install power generators for key city facilities to remain operational in times of power failures.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote a Sustainable Economy.
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 Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Support Buried Power Line Programs

Hazards: E, L, V, WUI, SW¹, MM²

The City of Gig Harbor supports buried power lines to eliminate some of the potential power failures during times of high wind, slides, and other severe situations. Although it is expensive to bury lines, it is often offset by the stability and reliability of power. Most power companies have programs to encourage buried lines in new areas.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Ongoing
6. **Benefit** = City and staff, residents, first responders, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Adopt "Firewise" Communities Planning and Development and Hold Workshops on "Firewise" Program

Hazards: WUI, SW¹, MM²

The City would like to obtain materials on the "Firewise" Community planning program and initiate a program in the community for employees and citizens.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote and Restore the Natural Environment.
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 Gig Harbor with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Mutual Aid and Memorandums of Understanding (MOU's) with Surrounding Jurisdictions

Hazards: E, L, T, V, F, WUI, SW¹, MM²

Develop and maintain Mutual Aid agreements and MOU's with surrounding jurisdictions and other outside agencies that could be of help in times of 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Ongoing
6. **Benefit** = City and staff, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Enforce Burn Bans and Other Burning Restrictions in the Community

Hazards: WUI, SW¹, MM²

The City has the authority and will continue to enforce burn bans and discourage burning under dry conditions that could prove hazardous or dangerous.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Gig Harbor Fire District
5. **Timeline** = Ongoing
6. **Benefit** = City and staff, first responders, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Evaluate Access and Egress Issues, Gates, Bridges and Turnarounds

Hazards: WUI, SW¹, MM²

The City has an ongoing program of evaluating new construction to provide ample space for emergency vehicles to turn around, gain access and egress from a community and clear necessary gates, bridges and overpasses. This is important not only for existing infrastructure but particularly in new construction.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Gig Harbor Fire District
5. **Timeline** = Ongoing
6. **Benefit** = City and staff, first responders, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Pre-Determine Level of Fire Suppression Needed and Pre-Plan for Areas of Highest Hazard or Potential

Hazards: WUI, SW¹, MM²

The City will pre-determine the level of fire suppression that will likely be needed for a given area as well as pre-planning for areas of highest hazard.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Gig Harbor Fire District
5. **Timeline** = Short-term
6. **Benefit** = City and staff, first responders, residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Program to Reduce Ignitability of Structures and Plans to Remove Dead Vegetation and Potential Fuels in Hazard Zones

Hazards: WUI, SW¹, MM²

Good outdoor housekeeping is imperative in areas where wildland fire can get started. The City will continue to look at ways to reduce potential fuels and make city infrastructure more fire resistant.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Gig Harbor Fire District
5. **Timeline** = Ongoing
6. **Benefit** = City and staff, first responders, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Understand Local Activation Procedures for Special Task Forces

Hazards: WUI, SW¹, MM²

The City will investigate and determine procedures for activation of the special task forces that fight wildland fires and train appropriate personnel on activation procedures.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Pierce County DEM
5. **Timeline** = Short-term
6. **Benefit** = City and residents, first responders, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Work with the Insurance Industry to Provide Financial Incentives to Homeowner's with Maintained Defensible Space

Hazards: WUI, SW¹, MM²

When dealing with wildland/urban interface fires, defensible space for homes and the City facilities is critical. While many homes located in wooded areas have a maintained defensible space around the perimeter of the home the City would like to see even more of that done. In order to facilitate this, the City proposes to work with area insurance companies to gain incentives for those citizens who take the time and trouble to protect their properties from wildland fires.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and residents, first responders, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Backup City Files and Records and Store in Alternate Location

Hazards: E, L, T, V, F, WUI, SW¹, MM²

In the event of any disaster situation, it is imperative that the City be able to recover important records and documentation in order to maintain continuity of government. In order to do this the City will first require regular backing up of files for all departments and second designate an off site location for the storage of departments' back up files.

1. **Goal(s) Addressed** = Ensure Continuity of Operations.
2. **Cost of Measure** = Cost of duplication, transportation and storage fees
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop/Maintain Hazardous Materials Program

Hazards: E, L, T, V, F, WUI, SW¹, MM²

Any situation can be made worse by the presence of hazardous materials. It is imperative the City know critical facilities that contain hazardous materials, inventories of what those materials are and information on how to deal with them in various situations. Part of this program will be to maintain a presence on the Local Emergency Planning Committee (LEPC), and routinely access the Pierce County Portal to identify those facilities with large enough quantities of hazardous materials to adversely impact Gig Harbor.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Protect and Restore the Natural Environment.
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 Gig Harbor and Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and citizens, first responders and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop and Maintain Security at Water Plants

Hazards: MM²

This measure would develop and maintain security at important water facilities to prevent or limit acts of terrorism at those locations. It is important to ensure that access to water resources that serve the community are limited.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Time and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and citizens, regional partners
7. **Life of Measure** = 5-10 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Support Community HAZMAT Agreements and Regional HAZMAT Teams

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City will encourage communities to join in HAZMAT Regional Agreements and to support local and regional HAZMAT teams for response and recovery efforts.

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** = Time and Materials, special equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Ongoing
6. **Benefit** = City and staff, community and residents, first responders, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Enhance Response Plans for Biological/Chemical Terrorism

Hazards: MM²

The City will work to enhance existing response plans and support those agencies that respond to biological/chemical acts of terrorism. This will also strengthen response and recovery efforts in accidental spills and other types of chemical issues.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents, first responders and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Install Bulletproof Court and Magistrate Benches

Hazards: MM²

The City would encourage the installation of bulletproof court and magistrate benches to protect the administrators of the judicial system in Gig Harbor from acts of violence or terrorism.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Time, materials and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Long-term
6. **Benefit** = City and staff, judicial system, community and regional partners
7. **Life of Measure** = 5-10 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Place Law Enforcement Officers in Schools

Hazards: MM²

In the aftermath of Columbine and other school related shootings and violence the City of Gig Harbor feels it is necessary to increase school security. One method of doing this that the City would support is the placing of law enforcement officers in the schools. This should serve as a security presence and a deterrent to those thinking about committing violent acts or terrorism in schools.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Staff time and officer time
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Police and School District
5. **Timeline** = Long-term
6. **Benefit** = City and residents, school district and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Provide Protective Systems or Equipment for Cyber or Physical Risks

Hazards: E, SW¹, MM²

The City will provide protective systems and special equipment to prevent cyber or physical attacks on City computer systems.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = Time, materials and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents, regional partners
7. **Life of Measure** = 10 years for special equipment
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Redundancy/Duplication of Essential Personnel, Critical Systems, Equipment, Information, Operations and Materials

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City recognizes the need for cross-training, backup of critical records and redundancy in critical equipment and hopes to put a program in place to cover these needs.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = Staff time, materials and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Review Security of Critical and Potential Target Facilities

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City will review security measures to ensure that all critical facilities and those that could be potential targets for terrorism or other types of criminal activities are secure and have proper protective equipment to prevent tampering or break in.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
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 Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Update All Anti-Virus Software

Hazards: MM²

The City will support and encourage updating of all anti-virus software on City computer systems and those systems that interface with City computer systems.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = Software costs and labor
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Public Education Mitigation Measures

Establish “Good Neighbor” Programs for Winter Storms and Severe Weather

Hazards: E, L, V, F, WUI, SW¹, MM²

Educate homeowners on the necessity of knowing your neighbors and knowing who may need assistance during winter cold and storms. As part of this encourage neighbors to check on each other during these times of severe cold and storms; especially vulnerable populations and those who may become isolated.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor and PC DEM
5. **Timeline** = Short-term
6. **Benefit** = City and staff, residents, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Educate Local Community Groups on Natural Hazards

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The measure builds on an existing foundation of presentations on natural hazards to schools and at local annual community events. The goal is to expand this to elderly groups, business groups, church groups, Boy Scouts and others.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Ongoing
6. **Benefit** = City and citizens, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Comprehensive Public Education Campaigns: Post Disaster

Hazards: E, L, T, V, F, WUI, SW¹, MM²

Post disaster recovery plans include actions to be taken immediately after a disaster (within 24 hours), mid-term and long term. For example, following a flood, measures need to be taken to avoid the growth of toxic molds. The City will incorporate post-disaster public education campaigns into its disaster recovery plan. These campaigns will speak specifically to the previously occurring disaster, and will focus on at-risk and affected areas. These campaigns will work in conjunction with the FEMA post-disaster public education efforts to ensure that local needs and issues are addressed.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Ongoing
6. **Benefit** = City and citizens, community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Provide PC NET Training

Hazards: E, T, V, F, SW¹, MM²

City of Gig Harbor will continue to support Pierce County's PC NET program in the City. PC NET is a neighborhood-oriented approach to emergency preparedness. Based on the belief that the most effective way to protect neighborhoods and to prepare for a major disaster must be locally based, it organizes neighborhoods into a variety of disaster response teams, each with a one-page checklist outlining their tasks. No special skills or equipment are needed and only a minimal time commitment is required. Individuals are trained to mutually assist each other to render aid, save lives and protect property. It reinforces 72 hours of individual preparedness.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
2. **Cost of Measure** = Time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County DEM with City of Gig Harbor
5. **Timeline** = Ongoing
6. **Benefit** = City and citizens, first responders, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Public Education Campaign, All Hazards

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City will continue to deliver public education campaigns many times throughout the year to audiences ranging from preschoolers to senior citizens, on topics from appropriate use of 911 to organizing communities for disaster response (PCNET). In general these programs focus on preparing citizens to prepare for and respond to disasters. Such programs are critical to reminding the public of the natural hazards in and around Gig Harbor, 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.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with PC DEM and Regional Partners
5. **Timeline** = Ongoing
6. **Benefit** = City and citizens, community and business, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Public Education for Severe Storms and Wind Storms

Hazards: F, SW¹, MM²

The windstorm of December 2006 was a wake up call for many people in the Peninsula area. As a result the City of Gig Harbor will develop and distribute specific information for the public regarding the types and intensity of storms that are likely to affect the area.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Public Education: Bus Driver Evacuation Training Program

Hazards: E, L, T, V, F, WUI, SW¹, MM²

The City will develop a training program to provide a quick method of evacuating schools and transporting the children to safer locations. This program can also be further developed with public transportation and utilizing public buses in time of need to evacuate those people in harms way.

1. **Goal(s) Addressed** = Protect Life and Property; 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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor with Peninsula School District and Pierce Transit
5. **Timeline** = Short-term
6. **Benefit** = City and staff, students, residents of community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Public Education for Volcanic Ashfall

Hazards: V, SW¹, MM²

Because we live in a volcano zone, it is important to educate the public on what to expect and how to react in the event of a volcanic eruption such as experienced in the past. One of the most damaging aspects of a volcano is the volcanic ash or tephra that can blanket the entire area causing roofs to collapse, respiratory problems in people and animals, and equipment damage. The City will develop a program to inform the public about this specific hazard.

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 and grants.
4. **Lead Jurisdiction(s)** = City of Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Educational Materials Regarding Wildland Fire Safe Practices

Hazards: WUI, SW¹, MM²

In conjunction with local fire departments, Department of Natural Resources and other agencies, develop educational materials to teach citizens about the dangers of wildland fire and how to be proactive in defending their homes through fire safe landscaping practices and defensible space rules.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Protect and Restore the Natural Environment.
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 Gig Harbor
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Educate Developers and Builders on Wildfire Hazards and Safe Building Practices

Hazards: WUI, SW¹, MM²

Provide educational materials to developers and construction companies building in the community regarding the wildfire threat and safe building practices to avoid this hazard.

1. **Goal(s) Addressed** = Protect Life and Property; 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 Gig Harbor with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = City and staff, community and residents, regional partners
7. **Life of Measure** = Perpetual
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.

³ Quote from Frank Michiels, president of Michiels International, a Kenmore-based real estate and trading company that is marketing Perco-Crete in the United States. He said he wants the state Department of Ecology to recognize Perco-Crete as a stormwater management alternative. "It can be a much broader range of use, especially where aesthetics are more important," Michiels said, comparing Perco-Crete with porous concrete. "It has an ability to be engineered on a broader basis. You can tailor it to the needs of a local site." Paul Crane, a landscape architect who works for the city of Everett, said the city will monitor the parking lot to see how well Perco-Crete holds water and controls stormwater runoff. The University of Washington's School of Engineering is running it through materials standards tests.