



City of Kenmore Plan Annex

Introduction

The City's Comprehensive Plan Vision Statement states that, "Kenmore is a place that residents, businesses and visitors find welcoming, with courteous people, and that offers a high quality of life to live, raise children, shop, work, recreate, and socialize." The City recognizes its Lake Washington waterfront as a significant local and regional asset and efforts to connect the community to the waterfront through a variety of park projects continue. After a concerted planning effort, Kenmore has developed an identifiable, walkable downtown that will soon be supported by regional bus rapid transit (BRT). Kenmore is home to the Kenmore Air seaplane base and the City is pursuing plans for future regional pedestrian ferry service between the City and Seattle. Kenmore supports the

character of its single-family residential neighborhoods but offers a diversity of housing types to provide a choice of attractive living accommodations for all residents. The City has significant natural and environmentally sensitive areas, including Swamp Creek, the Sammamish River, Lake Washington, steep slopes, and a great blue heron rookery.



Jurisdiction Profile

Date of Incorporation—August 31, 1998

Type of Government—
Seven-member City Council

that selects one of its members as the Mayor. The Council appoints a City Manager to provide direction to all City departments.

Current Population—23,320

Location and

Description—Kenmore is about 6 square miles in size, located in north King County between the cities of Bothell and Lake Forest Park. The City extends along the northeastern shoreline of Lake Washington and is bisected from east to west by the Sammamish River. Swamp Creek and its extensive wetlands divide the northern portion of the city. Kenmore is primarily developed with single-family neighborhoods. Most commercial and multifamily development stretches along SR-522 which crosses the City from east to west.





Development Trends

The City anticipates that an additional 3,667 housing units will be built in Kenmore over the 25 years between 2010 and the 2035. An additional 3,079 jobs are expected. The City continues work to support development of a very large (40+ acre) parcel adjacent to Lake Washington and the Sammamish River.

Regional policy documents assume Kenmore will become an important subregional job, service, cultural, and housing center with strong links to the regional transportation system. Bus rapid transit (BRT) is scheduled to arrive in Kenmore in 2024. The City has put in place a transit-oriented development district to encourage high density development--including affordable housing--near the proposed BRT station.

This new residential and commercial development, along with additional commuter traffic through Kenmore, will increase the City's at-risk population.



The City will be replacing its main bridge over the Sammamish River in the next few years, reducing the City's hazard vulnerability. Additional significant pedestrian and bicycle improvements are planned along major arterials.

Recent updates to Kenmore's critical area regulations (including geologically hazardous area and flood regulations) will protect environmental resources and improve public safety. In particular, improved information on steep slopes

Jurisdiction Point of Contact:

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Plan Prepared By:

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Title:

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City of Kenmore Risk Summary

Hazard Risk and Vulnerability Summary

Hazard	RISK SUMMARY	Vulnerability Summary	IMPACT SUMMARY
Avalanche	There is no risk of avalanche in Kenmore	N/A	N/A
Earthquake	Kenmore is near several faults including the Seattle Fault. Since incorporation the City has experienced a significant earthquake, the 6.8 magnitude Nisqually Earthquake in 2001. Kenmore is also located within the Seismic Design Category D ₁ . The City has adopted good earthquake regulations for new structures and infrastructure as well as alterations to existing buildings. Kenmore is mostly built out as a bedroom community and has existing single-family structures. Most of these existing structures are lightweight, wood-framed structures better suited to seismic activities.	Kenmore has two bridges that are nearing the end of their life that may be vulnerable is a severe earthquake. The West Sammamish River Bridge was constructed in the 1930's, and its current sufficiency rating is 6.75 out of 100. 100 is considered as an entirely sufficient bridge, typically new. The City plans to replace the bridge over the next few years. Reconstruction is expected to begin in 2020. The Little Swamp Creek Bridge at NE 175th St has a sufficiency rating of 40 out of 100; which requires retrofitting. However, retrofitting costs are equivalent to replacement costs. The City is currently exploring funding options.	Although Kenmore has experienced a significant earthquake, no significant damage was reported.
Flood	Portions of land adjacent to the Swamp Creek and Sammamish River are within the Special Flood Hazard Zone. The city has good floodplain management regulations for new construction and has limited development in this area; however, there are some structures already present in the floodplain. The City has previously purchased vulnerable property via grants and City funding. However, there are still a few single-family	There are approximately 10 single-family residences, 5 multifamily parcels and a few commercial properties located in the Special Flood Hazard Zone along Swamp Creek that experience flooding when the water is high. Although the properties floods, only a few structures experience flooding.	A few single-family residences experience repetitive damage due to flooding.



	residential properties that experience flooding.		
Landslide	Kenmore has steep slopes that have been designated Landslide Hazards. The city has good Critical Area regulations that limit new development. However, there were homes built on the Landslide Hazards prior to these regulations being in place.	The City has recently studied the City for potential landslide hazards based on Lidar technology. Based on the information from the study the City has updated its Landslide Hazard maps and regulations.	The study identified slopes potentially subject to landslides. Some landslides appear to be active and some are not. The active landslides are being monitored by the City and mitigation measures are being considered.
Severe Weather	Kenmore is at risk for heavy rain, heavy wind as well as snow & ice weather events.	Heavy rain can result in localized flooding and saturated soils. Erosion can occur which may litter the sidewalks, bike lanes and roadways with debris. Saturated soils can weaken tree stability and there is a potential for trees to fall in this type of weather event. Heavy wind can result in leafy and woody debris scattered on sidewalks/paths, bike lanes and roadways as well as other City owned property. There is also a potential for large branches or entire trees to fall onto public property. Snow and ice have the potential to affect all sidewalks, bike lanes and roadway making it dangerous and difficult to travel by vehicle or as a pedestrian.	Severe weather events can impact all City infrastructure including but not limited to sidewalks/paths, bike lanes, roadways and other public property.
Tsunami	Kenmore is not at risk for a tsunami, but could experience a "seiche"— a wave off of Lake Washington. Studies have not been done to show the potential inundation area in the City.	Most of the area potentially at risk is developed with commercial uses, including Kenmore Air, CalPortland, and two marinas; however, a large condominium complex also borders the north end of the Lake.	Significant damage could be done by a seiche. Total impact cannot be evaluated since mapping is incomplete and no recorded incidents exist.
Volcano	Kenmore could be affected by ashfall from nearby volcanoes (Mt. Rainier, for example).	Ash fall models are not available to assess vulnerability. Although Mt. Rainier is not presently active, the potential threat is ongoing.	Ashfall could impact City infrastructure and waterways as well as private property. Ash can also clog machinery.





Wildfire	The city has only a small amount of open natural space that has the potential for wildfire, but a seasonal risk impacted by climate change does exist. The majority of structure fires in the city are residential homes averaging about 3 per year requiring additional outside resources.	Swamp Creek and Saint Edward State Park are large natural areas bordered by residential homes and Bastyr University. Limited access and difficult terrain pose challenges for firefighting. Existing mutual aid agreements have been sufficient to provide additional resources for fighting structure fires and building codes requiring fire sprinklers in single family residential homes should offset the increase in number of homes in the city.	In the past 5 years, 12 small fires (less than 100' x 100') have been reported and extinguished. Structure fires pose a limited impact for the city as a whole but can have devastating isolated impact.
Civil Disturbance	Civil disturbances reacting to activities in the community have not occurred in Kenmore.	The City encourages public participation in regulatory or other changes that would affect the citizenry so that voices can be heard before action is taken. Kenmore police are trained to recognize and respond to this type of incident should it occur.	No civil disturbances have been located in Kenmore.
Cyber Incident	Increasingly, cyberattacks are plaguing local governments. Valuable information may be held hostage or important systems corrupted.	City government is vulnerable to these attacks although software solutions are constantly updated and staff are trained to avoid this type of attack.	The City has not, to date, suffered a successful cyberattack.
Hazardous Materials Incident	With limited commercial facilities in the city and none of them storing large supplies of hazardous materials, the primary risk is limited to those materials being transported through Kenmore.	The transportation of hazardous materials on State Route 522 is the primary source and location of hazardous chemicals in the city. SR522's proximity to Lake Washington, its tributaries and the city's downtown core with higher residential density put hazardous chemicals in close proximity to high impact areas.	Hazardous material incidents have been limited in size, less than 50 gallons, of flammable liquids in the past 5 years, but much larger quantities are transported through the city daily.
Health Incident	Like most primarily- residential cities the risk of a public health emergency is limited by the lack of large public gathering spaces (stadiums, etc.)	The city's population has limited vulnerabilities within the community however epidemics can still interrupt normal services and negatively impact the city.	An epidemic that reduced the availability of staff for the city or our service providers could interrupt regular business activity.
Terrorism	As with any U.S. city, the possibility of a mass shooting or other terrorist attack is present in Kenmore. Minor	Kenmore police are trained to recognize and respond to this type of incident.	Kenmore police have responded to and investigated the hate graffiti incidents. The City has alerted its





	instances of hate graffiti have been documented in the City.		citizens to combat hate speech. Fortunately, no terrorist attacks have occurred in the City.
Dam Failure	There is no risk of dam	N/A	N/A
	failure in Kenmore.		





Hazard and Asset Overview Map(s)

Figure 1: Kenmore Facilities

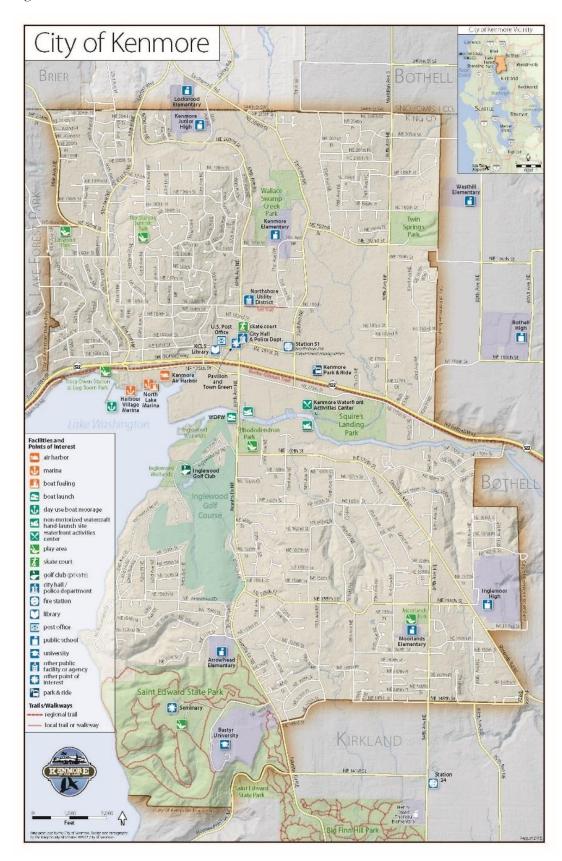






Figure 2: Geologically Hazardous Areas

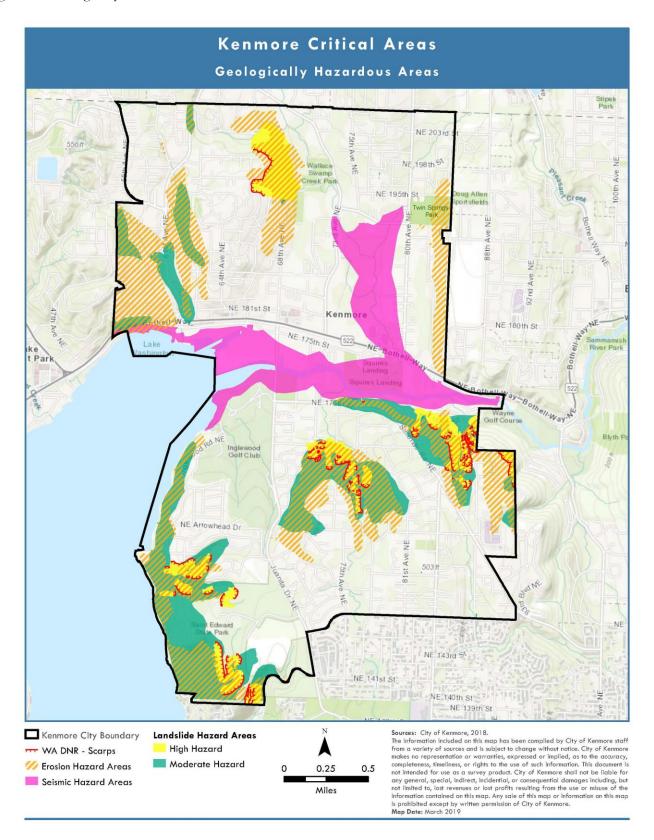
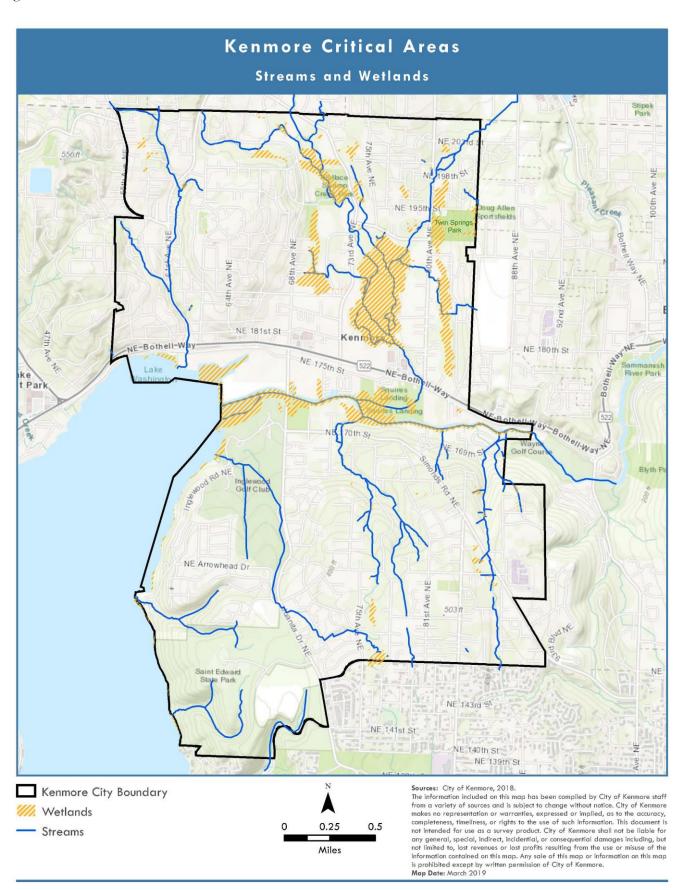






Figure 3: Streams and Wetlands







Assets at Risk (Northshore Utility District only)

ASSET	Value (\$)	RISK SUMMARY	Vulnerability Summary	IMPACT SUMMARY
Inglemoor		This major water	The pipeline runs through	The loss of the
Water		transmission main	a major liquefaction area	pipeline would
Transmission		connects two halves	and under the Sammamish	eliminate the
Main		of Northshore Utility	River through unstable	connection
		District's water	soils and steep slopes.	between the north
		system dissected by		and south side of
		the Sammamish		the water system
		River and is essential		dramatically
		to efficiently serve		reducing the
		the city.		ability of the
				District to move
				water and serve
				customers.

Plan Update Process

This planning process can be divided into three steps:

- 1. What is valued in our community? (asset assessment)
- 2. What values are at risk or exposed to hazards? (risk assessment)
- 3. How will be protect what we value? (strategies)

The City of Kenmore has participated in the multi-jurisdictional planning process led by King County. A City hazard mitigation planning (HMP) team was established to prepare the HMP and identify possible mitigations.

The team met over several months, beginning on April 24, 2019. The first meeting was held with Derrick Hiebert, Hazard Mitigation Specialist with King County, to discuss plan expectations and review the plan template.

Additional team meetings were held on 5/23, 6/25, 8/6, 9/9, and 9/24/19 to assign responsibilities, review draft sections of the plan, discuss and prioritize mitigation strategies, and prepare for public participation in the HMP's development.

On August 21, 2019 team members Carl Lunak and Bryan Hampson, along with Derrick Hiebert, conducted a public outreach event, including a prioritization survey of potential mitigations, at the City's Movie Night event. On September 21, 2019, team member Carl Lunak and six volunteers staffed a table at the Northshore Safety and Emergency Preparedness Fair to provide information on the Hazard Mitigation Plan.

City of Kenmore Planning Team

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NAME	TITLE	Organization	CONTRIBUTION
Bryan Hampson	Development Services	City of Kenmore	Helped prepare HMP and
	Director		identified mitigation
			strategies. Emergency
			Operations Manager.
Carl Lunak	Emergency Operations	NEMCO	Helped prepare HMP and
	Manager		identified mitigation
			strategies. Liaison with
			Northshore Utility
			District.





Lauri Anderson	Principal Planner, Community Development	City of Kenmore	Helped prepare HMP. Prepares Comprehensive Plan and Municipal Code amendments.
Jennifer Gordon	Public Works Operations Manager	City of Kenmore	Helped prepare HMP and identified mitigation strategies. Responsible for maintenance of City facilities and infrastructure.
Richard Sawyer	Environmental Services Manager	City of Kenmore	Helped prepare HMP and identified mitigation strategies. Supervises surface-water program and participates on regional environmental committees.

Plan Update Timeline

PLANNING ACTIVITY	DATE	SUMMARY	ATTENDEES
King County HMP	12/13/18	Reviewed plan	Lauri Anderson
training		expectations with	
		interjurisdictional	
		planning group.	
Initial meeting with	4/24/19	Reviewed planning	HMP Team
Derrick Hiebert		expectations and HMP	
		template	
King County HMP	7/25/19	Mitigation strategy	Carl Lunak
workshop		workshop	
HMP team meetings	5/23/19	Responsibilities for	HMP Team
	6/25/19	completing sections of	
	8/6/19	the plan were assigned.	
	9/9/19	The group identified	
	9/24/19	upcoming public	
		participation	
		opportunities. Each	
		team member reviewed	
		the 2015 plan and the	
		2019 template.	
		Mitigation strategies were	
		identified and prioritized.	





Public Outreach

Public Outreach Events

EVENT	DATE	SUMMARY	Attendees
Kenmore Movie Night	8/21/19	Information provided	Derrick Hiebert, Bryan
		and survey taken on	Hampson and Carl
		mitigation priorities. A	Lunak
		raffle was held for	
		participants to win	
		emergency supplies.	
Northshore Safety and	9/21/19	Information provided on	Carl Lunak and
Emergency Preparedness		the mitigation plan and	volunteers Dawn Teel-
Fair		planning process.	Friedman, Asa Louis,
			Robin McKenzie, Gail
			Siani, John Cornaby and
			Jiles Baggett

City of Kenmore Hazard Mitigation Program

Hazard mitigation strategies were developed through a two-step process. The internal planning team met to identify a comprehensive range of mitigation strategies. These strategies were then prioritized using a process established at the county level and documented in the base plan. Input from a community survey was used to help with prioritization.

Hazard mitigation strategies in the City of Kenmore are managed through a collaborative process involving multiple departments and the Northshore Utility District (NUD). The City's Emergency Operations Manager, along with the Emergency Operations Manager from NEMCO (also representing NUD), monitor status of the mitigation actions and convene the annual meeting of the planning team as described below.

Plan Monitoring, Implementation, and Future Updates

King County leads the overall mitigation plan monitoring and update process and schedules the annual plan check-ins and biannual mitigation strategy updates. Updates on mitigation projects are solicited by the county for inclusion in the countywide annual report. As part of participating in the 2020 update to the Regional Hazard Mitigation Plan, Kenmore agrees to convene its internal planning team at least annually to review their progress on hazard mitigation strategies and to update the plan based on new data or recent disasters.

As part of leading a countywide planning effort, King County Emergency Management will send to planning partner any federal notices of funding opportunity for the Hazard Mitigation Assistance

King County Plan Goals

- 1. Access to Affordable, Healthy Food
- 2. Access to Health and Human Services
- 3. Access to Parks and Natural Resources
- 4. Access to Safe and Efficient Transportation
- 5. Affordable, Safe, Quality Housing
- 6. Community and Public Safety
- 7. Early Childhood Development
- 8. Economic Development
- 9. Equitable Law and Justice System
- 10. Equity in Government Practices
- 11. Family Wage Jobs and Job Training
- 12. Healthy Built and Natural Environments
- 13. Quality Education
- 14. Strong, Vibrant Neighborhoods





Grant Program. Proposals from partners will be assessed according the prioritization process identified in this plan and the county will, where possible, support those partners submitting grant proposals. This will be a key strategy to implement the plan.

The next plan update is expected to be due in April 2025. All jurisdictions will submit letters of intent by 2023, at least two years prior to plan expiration. The county will lead the next regional planning effort, beginning at least 18 months before the expiration of the 2020 plan.

Mitigation Plan Integration

In the past, Kenmore has used the Hazard Mitigation Plan to guide the development of additional programs and City policies including but not limited to the Comprehensive Emergency Management Plan, capital expenditure plans and the Critical Areas Ordinance. To continue that ongoing integration, the City's Hazard Mitigation Plan will be identified as a reference document in other planning documents, including the updated Comprehensive Plan, and members of the hazard mitigation planning team will be included in the development of additional programs and policy updates.

Continued Public Participation

King County and its partner cities already maintains substantial public outreach capabilities, focusing on personal preparedness and education. Information on ongoing progress in implementing the hazard mitigation plan will be integrated into public outreach efforts. This will provide King County residents, already engaged in personal preparedness efforts, with context and the opportunity to provide feedback on the county's progress and priorities in large-scale mitigation. In the vertical integration of risk-reduction activities from personal to local to state and federal, it is important that the public understand how its activities support, and are supported by, larger-scale efforts.

The outreach and mitigation teams will also continue to work with media and other agency partners to publicize mitigation success stories and help explain how vulnerabilities are being fixed. When possible, public tours of mitigation projects will be organized to allow community members to see successful mitigation in action.

Hazard Mitigation Authorities, Responsibilities, and Capabilities

Plans

PLAN TITLE	RESPONSIBLE AGENCY	POINT OF CONTACT	RELATIONSHIP TO HAZARD MITIGATION PLAN
Comprehensive Plan	City of Kenmore	Lauri Anderson	Provides overall guidance to City policy and priorities
Comprehensive Emergency Management Plan, 2016	City of Kenmore	Bryan Hampson	The Hazard Mitigation Plan is an annex of the City's CEMP
Capital Facilities Plan and Capital Improvement Program	City of Kenmore	Joanne Gregory	Provides a list of approved Capital Improvement Projects.
Surface Water Master Plan, 2015	City of Kenmore	Richard Sawyer	Provides detail on the City's surface water assets, policies, programs and capital projects.





Northshore Utility	Northshore Utility	Ethan Maiefski	NUD's Hazard
District (NUD)	District		Mitigation Plan is also an
Comprehensive			annex to the King
Emergency			County Plan. NUD is a
Management Plan,			participant in NEMCO.
2019			

Programs, Policies, and Processes

PROGRAM/POLICY	RESPONSIBLE AGENCY	POINT OF CONTACT	RELATIONSHIP TO HAZARD MITIGATION PLAN
Municipal Code, including building code, zoning and subdivision codes, critical areas rules, and shoreline regulations	City of Kenmore	Lauri Anderson	City regulations
National Flood Insurance Program	City of Kenmore	Bryan Hampson	The NFIP insures properties in and around the floodplain
State Environmental Policy Act	City of Kenmore	Bryan Hampson	Environmental analysis of proposed projects

Entities Responsible for Hazard Mitigation

AGENCY/ORGANIZATION	POINT OF CONTACT	RESPONSIBILITY(S)	
City Council	Rob Karlinsey	Approval and oversight of City actions	
City Manager's Office	Rob Karlinsey	Management of departmental activities	
Development Services	Bryan Hampson	Permit review and Emergency Operations Manager	
Community	Debbie Bent	Long-range policy planning and parks development	
Development			
Engineering	John Vicente	Engineering	
Public Works	Jennifer Gordon	Public works operations	
Operations			
Environmental Services	Richard Sawyer	Surface water management and environmental issues	
Finance and	Joanne Gregory	Budget development and administration	
Administration			
Police	Peter Horvath	Police services and traffic control	
NEMCO (Northshore	Carl Lunak	Coalition of the cities of Kenmore and Lake Forest	
Emergency		Park and the Northshore Fire Department and	
Management Coalition)		Northshore Utility District to address emergency	
		preparedness and provide public education	

National Flood Insurance Program

National Flood Insurance Program Compliance

What department is responsible for floodplain	Development Services
management in your community?	





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Who is your community's floodplain	Bryan Hampson, Development Services Director
administrator? (title/position)	
What is the date of adoption of your flood	6/17/19
damage prevention ordinance?	
When was the most recent Community	April 23, 2019
Assistance Visit or Community Assistance	
Contact?	
Does your community have any outstanding	No.
NFIP compliance violations that need to be	
addressed? If so, please state what they are?	
Do your flood hazard maps adequately address	Yes.
the flood risk within your community? If so,	
please state why.	
Does your floodplain management staff need any	No.
assistance or training to support its floodplain	
management program? If so, what type of	
training/assistance is needed?	
Does your community participate in the	No, therefore Kenmore is a Class 10.
Community Rating System (CRS)? If so, what is	
your CRS Classification and are you seeing to	
improve your rating? If not, is your community	
interested in joining CRS?	
How many Severe Repetitive Loss (SRL) and	SRL:0
Repetitive Loss (RL) properties are located in	RL: 2-5
your jurisdiction?	
Has your community ever conducted an elevation	Yes, through various grants and City funding. The
or buy out of a flood-prone property? If so, what	City is interested in buying more flood prone
fund source did you use? If not, are you	properties as additions funding becomes available.
interested in pursuing buyouts of flood prone	
properties?	

2015 Hazard Mitigation Strategies

This section of the plan identifies Kenmore's 2015 hazard mitigation strategies and an update on their status.

STRATEGY	DESCRIPTION	Priority	STATUS
KM-1	Continue to maintain compliance and good standing under the National Flood Insurance Program. This will be accomplished through the implementation of floodplain management programs that, at a minimum, will meet the minimum requirements of the NFIP, which include the following:	High	Provide public assistance on floodplain requirements and impacts through permit counter contacts and telephone inquiries. Continue to enforce flood regulations through permitting. Adopted updated flood regulations, with FEMA's review and approval, in 2019.





	• Enforcement of the		
	adopted flood damage		
	prevention ordinance,		
	Participating in		
	floodplain identification and mapping updates,		
	and mapping updates,		
	Providing public		
	assistance/information		
	on floodplain		
	requirements and		
	impacts		
KM-2	Consider evaluation of	High	The Northshore Fire
	the City's building code		District completed its
	enforcement program under the Building Code		annual full survey from the WA Survey and
	Effectiveness Grading		Rating Bureau and rated
	Schedule, administered		Kenmore as a Class 3.
	by the WA Survey and		
	Rating Bureau.		
KM-3	Integrate the hazard	High	The City updated its
	mitigation plan into other plans, ordinances or		critical areas regulations and Shoreline Master
	programs to dictate land		Program based on new
	uses within the		information on landslide
	jurisdiction.		hazard areas using new
	<u> </u>		LiDAR technology.
KM-4	Consider participation in	High	The City is considering
	incentive based programs		these programs.
	such as the CRS, Firewise and StormReady.		
KM-5	Where appropriate,	Medium	The City has bought
	support retrofitting,		some properties prone to
	purchase, or relocation of		flooding and is interested
	structures located in		in pursuing additional
	hazard-prone areas to		buy outs as funding is
	protect structures from future damage, with		available.
	properties with exposure		
	to repetitive losses as a		
	priority.		
KM-6	Continue to support the	High	The City supports the
	county-wide initiatives		county-wide initiatives
KM 7	identified in this plan.	Lligh	identified in this plan.
KM-7	Actively participate in the plan maintenance strategy	High	The City participates in the maintenance strategy
	identified in this plan		identified in this plan.
KM-8	Strive to capture	Medium	The City continues to
	perishable data (i.e. high		capture essential data
	water marks, preliminary		following significant
	damage estimates, and		events.
	damage photos) after		





	significant hazard events to support future updates to the risk assessment of this plan.		
KM-9	Investigate and improve mapping of landslide hazard areas. Increase understanding of vulnerability and risk to life and property in hazard prone areas. Improve knowledge of landslide hazard areas and understanding of vulnerability and risk to life and property in hazard prone areas, particularly near 84th Ave. NE and 88th Ave. NE between NE 157th Street and NE 169th Street, and in areas of previous landslides.	Medium	Participated in the King County LiDAR mapping process and had Kenmore-specific information prepared.
KM-10	Identify and begin acquisition of City equipment necessary for safety and operations during a natural hazard event.	Medium	Emergency Operations Center Logistics Section identified potential businesses that have necessary equipment that we could acquire if needed during a natural hazard event
KM-11	Continue to facilitate and support hazard education programs, such as CERT training or providing educational materials for family disaster preparedness.	High	Formed the Northshore Emergency Management Coalition (NEMCO) with the City of Kenmore, City of Lake Forest Park, Northshore Fire District, and Northshore Utility District. Conduct monthly volunteer emergency meetings; conduct monthly Radio Amateur Civil Emergency Service meetings; conducted 2 CERT classes in 2016 and 2018; conducted Radio Technician Class; and conducted 2 citizen emergency preparedness workshops in 2018.





KM-12	Conduct non-structural retrofit activities in City facilities, such as strapping down and securing computers and other office equipment and machinery, securing shelves and heavy furniture to walls, ensuring that heavy items are not stored overhead, mounting computer servers on seismic isolation platforms, etc.	Medium	Incomplete. No longer a priority.
KM-13	Encourage reduction of nonstructural and structural earthquake hazards in homes, schools, businesses, and other government offices.	High	Website includes information on securing furniture and appliances, and other measures, under "do1thing" program.
KM-14	Identify city-owned buildings and infrastructure that require structural retrofitting.	High	Inspected all city-owned buildings and infrastructure for potential structural retrofitting. No city-owned buildings require retrofitting.
KM-15	Develop public information to educate citizens on tsunamis/seiches.	Medium	Incomplete. No longer a priority. Need information about the hazard.
KM-16	Encourage King County to develop ash fall models that are specific to the north King and south Snohomish Counties area.	Low	Incomplete. Relying on County for action.
KM-17	Increase communication, coordination, and collaboration between wildland-urban interface property owners, city planners, fire prevention crews, and city officials to address risks, existing mitigation measures, and federal assistance programs related to wildfire.	High	Communication and coordination complete for new development at Saint Edward State Park.





KM-18	Enhance public safety strategies for debris avoidance and management for natural hazards events. Implementation measures include developing and enhancing right-of-way maintenance programs, educating property owners about tree maintenance near roadways, and developing coordinated management strategies for public safety issues such as clearing debris from public and private property.	High	Provided information on City's website.
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STRATEGY	LEAD AGENCY/POC	Timeline	Priority
Sammamish River	City of Kenmore/	2020-2025	High
Bridge detour routes	John Vicente or Tobin		
	Bennett-Gold		
Flood reduction and	City of Kenmore/	2020-2025+	Moderate
resiliency	Richard Sawyer		
Severe weather event	City of Kenmore/	2020-2025	Moderate
debris disposal	Jennifer Gordon		
procedures			
Inclement weather	City of Kenmore/	2020-2022	High
(snow and ice)	Jennifer Gordon		
procedures manual			
Landslide hazard area	City of Kenmore/	2020-2022	Moderate
education and outreach	Bryan Hampson		
Stabilization of	City of Kenmore/	2020-2025+	Moderate
hazardous slopes in	Jennifer Gordon		
City right-of-way			





Lead Points of	Partner Points of Contact	Hazards	Funding Sources
Contact	Kenmore Chief of Police	Mitigated / Goals	and Estimated
City Engineer	Private boat operators	Addressed	Costs
Traffic Engineer	-	Interruption of	City funds
		transportation	
		connectivity	

Strategy Vision/Objective

Prepared detour routes and development of transportation alternatives in the event of loss of transportation access across one or both 68th Av NE Sammamish Bridges in order to mitigate negative effects of loss of transportation connectivity on effectiveness of city-wide and regional traffic operations. Effective traffic operations are necessary for emergency response and / or evacuation in addition to preserving normal transportation access as much as possible until connectivity is restored.

Mitigation Strategy

Prepare and maintain traffic detour plans, including temporary signage and signal adjustments, to redirect traffic in the event that one or both 68th Av NE (Sammamish River) Bridges need to be closed or have collapsed. Make relevant staff and police aware of detour plans so that they can be implemented quickly in the event of a bridge closure. Contact adjacent jurisdictions on traffic impacts if needed.

Work with local boat operators to ferry people back and forth across the river in the event of an emergency. One such relationship has already been established with a local tour boat company.

West Sammamish bridge construction includes detours in the event of bridge closure during construction. Project will be complete in 2022. After Project is completed, a new detour plan will be prepared for the permanent state of the infrastructure.

2-Year O	bjectives
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Detours related to West Sammamish Bridge Project have already been developed and will be made available to relevant staff and police.

Establish relationships with local boat operators.

5-Year Objectives

Prepare new detour routes based on permanent infrastructure and make plans available to relevant staff and police.

Long-Term Objectives

Review and update detour routes and ferry opportunities and make information available to relevant staff and police.

Implementation Plan/Actions

Detour plans to be used during West Sammamish Bridge Project are already developed and in place. New detour plans will be prepared after bridge construction is complete in 2022.

Expand relationships with local boat operators to provide ferry service across the Sammamish River in the event the bridge is closed.

Performance Measures

Was access to all streets preserved while detour was in effect (including streets not cut off by gridlocked traffic)?

How quickly was the detour implemented (did the appropriate people have access to the detour plan)? Were road users able to clearly follow detour signing?

Are agreements in place with local boat operators?





Lead Points of	Partner Points of Contact	Hazards	Funding Sources
Contact	Private property owners	Mitigated / Goals	and Estimated
Public Works	Flood control district	Addressed	Costs
Environmental		Flood reduction	City funds, Grants
Services Manager			

Strategy Vision/Objective

Flood reduction and resiliency: Determine specific stream culvert and public drainage facility projects and priorities for flood reduction, road safety and water quality protection; remove homes and businesses from flood prone properties and restore floodplain function while simultaneously improving riparian habitat and stream health; and eliminate recurring flooding issues at known "hot-spots" by evaluating underlying causes and addressing the root issues.

Mitigation Strategy

Conduct a citywide stream culvert assessment to identify specific projects;

Conduct a citywide assessment of public drainage facilities (stormwater vaults, ponds) to identify retrofit opportunities;

Acquire property to restore stream corridors and floodplains and reduce flooding hazards; and Develop a list of specific projects to reduce hazards in known flash-flooding hotspots.

2-Year Objectives

- Identify, map and document all stream bearing culverts in the City, including information on type, diameter, length, public impact and ownership.
- Assess public drainage facilities.
- Identify, map and document all potential properties for floodplain restoration and all hot-spot flooding locations.

5-Year Objectives

- Complete conditional assessments of culverts and hydraulic modeling of built-out conditions for flow capacity and flood analysis. Prioritize replacement.
- Prioritize identified floodplain restoration properties for acquisition.
- Complete assessments of hot-spot flooding issues and prioritize based on effectiveness of solution, benefit, cost and scope of work needed.

Long-Term Objectives

Incorporate projects into on-going capital improvement program to provide funding for implementation.

Implementation Plan/Actions

Identify projects to reduce flooding. Prioritize those projects.
Obtain funding.
Complete projects.

Performance Measures

Flooding of private property and roadways Water quality

Functioning riparian habitat





Lead Points of	Partner Points of Contact	Hazards	Funding Sources
Contact	Public Works Operations Crew	Mitigated / Goals	and Estimated
Public Works	Allied Waste	Addressed	Costs
Operations Manager	Waste Management	Debris Removal	City funds

Strategy Vision/Objective

Standard operating procedures for debris management after a severe weather event.

Mitigation Strategy

Make a plan for debris disposal after severe weather events or natural disasters (tree debris, other vegetation, etc.)

2-Year Objectives

Create a written document containing standard operating procedures for debris management after a severe weather event.

5-Year Objectives

Develop a routine review of plan to ensure agreements are in place for the debris removal strategy. Schedule a routine debrief annually in late spring if the City experienced severe weather during that time period.

Long-Term Objectives

To have an up-to-date standard operating procedures manual for debris management that is being reviewed and updated routinely.

Implementation Plan/Actions

Draft document and have it reviewed by partners. Finalize plan and provide training.

Performance Measures

Plan completion





Lead Points of	Partner Points of Contact	Hazards	Funding Sources
Contact	Public Works Operations Department	Mitigated / Goals	and Estimated
Public Works		Addressed	Costs
Operations Manager		Snow & Ice	City funds
		Inclement Weather	-

Strategy Vision/Objective

Create a standard operating procedures manual for snow and ice inclement weather.

Mitigation Strategy

Develop written snow and ice removal procedures, including priorities, for Kenmore (formerly handled by Lake Forest Park Public Works).

2-Year Objectives

Create a written document containing standard operating procedures for snow and ice weather events.

5-Year Objectives

Develop a routine review of plan on an annual basis to incorporate new infrastructure and assess priority routes. Schedule a routine debrief annually in early spring if the City experienced inclement weather during that time period.

Long-Term Objectives

To have an up-to-date standard operating procedures manual for snow and ice that is being reviewed and updated routinely.

Implementation Plan/Actions

The plan will be developed prior to the beginning of the 2019 winter season. The plan will layout work items that may be done in preparation for the winter season as well as procedures and priorities to be followed during the winter season.

Performance Measures

Vehicular accidents due to snow and ice conditions.

Volume of requests for service.





Lead Points of Contact Development Services	Partner Points of Contact Private property owners King County Emergency Management	Hazards Mitigated / Goals Addressed	Funding Sources and Estimated Costs
Director	Insurance companies FEMA	Landslide	City funds, Grants
Strategy Vision/Object			-
Property owners are aw	are of hazard and can make informed land	use decisions	
Mitigation Strategy			
Provide education and o	outreach to property-owners in identified l	andslide hazard areas.	
•	5-Year Objectives		ng-Term
•	,		ng-Term jectives
•	,		
2-Year Objectives Notify and educate prop	,		
•	,		
•	perty owners.		
Notify and educate prop	perty owners.		
Notify and educate properties. Prepare educational materials	/Actions		
Notify and educate properties. Prepare educational materials	/Actions		
Notify and educate properties. Prepare educational materials	/Actions		
Notify and educate properties. Prepare educational materials	/Actions		
Notify and educate properties. Prepare educational materials	/Actions		
Notify and educate properties. Prepare educational materials	/Actions		
Implementation Plan, Identify properties. Prepare educational materials or of the control of the	/Actions terials. discuss findings with property owners.		





Lead Points of	Partner Points of Contact	Hazards	Funding Sources
Contact	Public Works Engineering	Mitigated / Goals	and Estimated
Public Works	Public Works Environmental Services	Addressed	Costs
Operations Manager		Stabilize hazardous	City funds
		slopes.	•

Strategy Vision/Objective

Identify and stabilize possible hazardous slopes within the right-of-way that need to be stabilized.

Mitigation Strategy

Stabilize hazardous slopes in City right-of-way (for example, at 61st Place and NE 150th Street and at 66th Avenue NE and NE 196th St.)

2-Year Objectives	5-Year Objectives	Long-Term
Develop a capital project for each hazardous slope identified. Design repair.	Projects identified to be added to the Capital Improvement Plan and given a budget. Create a timeline for projects to be completed.	Objectives Complete capital projects to stabilize hazardous slopes within the right-of-way.

Implementation Plan/Actions

Develop capital projects that address the hazardous slopes, including an engineer estimate.

Evaluate projects as part of the Capital Improvement Plan (CIP)

Create a timeline for project completion.

Performance Measures

Hazardous slopes have been stabilized.