# City of Bothell Plan Annex

## Introduction

The City of Bothell, incorporated in 1909, is in the north central region of King County and the south central region of Snohomish County and is located on I-405, 12 miles north of Seattle, Washington. The City shares its boundaries with the cities of Kirkland, Woodinville, Kenmore and unincorporated areas of Snohomish counties (see Attachment 1: Bothell Regional Street Map).

Since the first settlers arrived in the late 1800's, Bothell has evolved from a logging camp to an agricultural community to a bedroom suburb to a balanced city with well-established residential areas and thriving retail and employment centers. The historic downtown is home of the Bothell City Hall, Bothell Police Department, Bothell Downtown Fire Station and other City administrative offices.

The City is unique in that it encompasses two counties. Approximately 7.24 square miles are located in King County and 6.42 square miles are located in Snohomish County with a total area consisting of 13.66 square miles. Because Bothell is located in both Snohomish County and King County, it is subject to the planning and policies that have been adopted in both counties. Adopted policies are designed to ensure that city and county comprehensive plans are consistent.

#### Bothell has a Council-manager government governed by a City Council consisting of seven Council Members, each of whom is elected to a four-year term. Council elections are held every two years, with either three or four positions standing, depending upon the year. All positions are nonpartisan and at-large, elected by the entire city voting population. The Council passes

#### City of Bothell Profile

#### Incorporated: 1909

#### Population: 45,533 (2017)

**Location:** 47°46'18"N and 122°12'16"W, encompassing both King and Snohomish Counties

Area: 13.66 sq miles

City Manager: Jennifer Phillips

Website: www.bothellwa.gov



## Jurisdiction Point of Contact:

Name: Jennifer Warmke Title: Emergency Manager Entity: City of Bothell Phone: 425/806-6270 Email: jennifer.warmke@bothellwa.gov

Plan Prepared By:

Name: Jennifer Warmke Title: Emergency Manager Entity: City of Bothell Phone: 425/806-6270 Email: jennifer.warmke@bothellwa.gov ordinances and resolutions, approves the budget, sets policies and adjudicates issues, and elects from its own membership a Mayor and Deputy Mayor for two-year terms.

Day-to-day affairs in the city are administered by a City Manager appointed by the council.

Bothell is home to Cascadia College and the University of Washington, Bothell. The two institutions share the same campus, which opened in the year 2000. They not only provide for significant employment, but also help train a highly capable workforce for community businesses. Staff and students provide customers for local businesses and services. Partnerships with local businesses and industries provide mutual benefits and strengthen the overall vitality of the community.

#### **Development Trends**

The City of Bothell's population has historically grown at a rate of around 1 percent per year, except when annexations add large numbers of citizens to the City. The overall growth rate is expected to continue.

Bothell has evolved into a major regional employment hub. This growth was initiated by the availability of developable land in the North Creek Valley, but has been sustained by the City's geographically advantageous position within the Puget Sound region and a high quality of life which attracts employers and employees alike. Moreover, sufficient capacity exists within the North Creek and Canyon Park office/light industrial activity centers to accommodate employment growth.

As of 2019, Bothell is experiencing extensive detached single family residential development throughout the city, as well as substantial mixed-use, vertical multi-family growth and institutional redevelopment in and around the downtown core. This development is catalyzed by public roadway and other capital projects.

The Comprehensive Plan provides a vision of Bothell's future development. The vision includes an emphasis on infill development occurring in existing neighborhoods, rather than sprawl and an increase in multi-family housing in the downtown area. While this new development is not located within a distinct hazard zone, the concentration of development has an increased risk to the City when it comes to first response capabilities in the event of a large-scale disaster.

Major business parks are located east of I-405 in the North Creek Valley, with one large business park in the King County portion of the valley and one in the Snohomish County portion.

Employment throughout the city is diverse, although technology-related employment is a particular strength of Bothell. Bothell's ten largest employment groups provide roughly 5 percent of the jobs in the city. Professional and educational services are the principal area of employment in Bothell. This is followed by manufacturing, retail and construction services.

## **City of Bothell Risk Summary**

#### Hazard Risk and Vulnerability Summary

HAZARD	RISK SUMMARY	VULNERABILITY SUMMARY	IMPACT SUMMARY
Avalanche	Bothell is not at risk for		
	avalanches.		
Earthquake	Earthquakes can be the	Bothell is geographically located	The most recent earthquake that
	most destructive hazard	in an area known as the Pacific	affected the City was the
	Bothell can face if we	Ring of Fire. A significant	Nisqually Quake in 2001. The
	have a moderate event	number of active fault lines or	6.8 magnitude earthquake was
	on the Seattle Fault	cracks in that crust have been	centered under Anderson Island
	Zone. An earthquake is	identified in the central Puget	in south Puget Sound. While
	a shaking or sometimes	Sound area including Seattle and	extensive damage due to this
	violent trembling of the	King County. The nearest major	earthquake was sustained
	earth which results from	active fault is the South Whidbey	throughout areas of King
	sudden shifting of rock	Fault, however the city has	County, Bothell experienced only
	beneath the earth's	mapped liquefaction zones as	minor damages and did not
	crust. This sudden	depicted in Attachment 2:	qualify for any reimbursable
	shifting releases energy	Seismic Liquefaction Map. At	expenses.
	in the form of seismic	this time it is not possible to	
	waves or wave-like	predict the exact date, duration	
		or magnitude of an earthquake.	

movement of the earth's surface.		
surface.	movement of the earth's	
	surface.	

HAZARD	RISK SUMMARY	VULNERABILITY SUMMARY	IMPACT SUMMARY
Flood	6.10 % of the total land area of the city is within Special Flood Hazard Areas; however, of that land area 3.39% is located in Zone X which is an area protected by a levee. The city has good floodplain management regulations and has limited development; however, there are some structures already present in the floodplain.	With no structures in the City shown in the Repetitive Loss Report, structures within floodplains were analyzed. The floodplain boundaries within the City are shown in Attachment 3: Floodplain Map.	The most recent event of flooding in Bothell occurred in 2007. Between December 1 <sup>st</sup> and 17 <sup>th</sup> , 2007 the City received heavy rainfall resulting in extensive flooding across the City causing the evacuation of some residences and a business park. This is the one specific NCDC event recorded for flooding for 2007.
Landslide	7.88% of the total land area of the city is located in potential landslide areas per 2002 data. 3.92% of total land is in landslide deposit, scarp, or flank per 2015 DNR data. While not a common problem, landslides in Bothell are typically associated with either unusually heavy seasonal rains or local earthquake activity.	<ul> <li>Over the past 10 years, the following neighborhood areas experienced landslides:</li> <li>Valhalla Subdivision</li> <li>Regents Wood Condominium</li> <li>108<sup>th</sup>/112<sup>th</sup> Place NE, south of East Riverside Drive</li> <li>Amber Ridge Subdivision</li> <li>Norway Hill area</li> <li>Brentwood Subdivision</li> <li>Queensborough Subdivision</li> <li>Boy Scout Property</li> <li>West Riverside Drive</li> <li>East Riverside Drive</li> <li>Woodcrest</li> </ul>	Landslides have been a significant problem in Bothell's southwest area (primarily south of SR 522 and west of I-405) for many years, and several landslides occur every year during the rainy season. Storms have triggered a number of landslides as evidenced in the Attachment 4: Landslide Potential Map. Deposits, according to data compiled in 2002 by the University of Washington, from soils reports produced by engineering firms that conducted explorations in the area. Additionally 2015 Washington State DNR draft data is depicted for Landslide deposits, scarps, and flanks visible and created using lidar.

HAZARD	Risk Summary	VULNERABILITY SUMMARY	IMPACT SUMMARY
Severe	Severe weather in	The National Weather Service	
			The most recent event happened in February of 2019 when a series of winter storms producing snow greatly affected the entire Puget Sound region. Impacts resulted in snow covered roads and numerous "snow days" for staff. Prior to that a period of time starting in December 12, 2008 and lasting to January 5, 2009 (refer to Hazard Events Since January 2006 HMP, page 3-4). Extreme cold, snow and then rain resulted in many collapsed structures in the City and an extended period of 24/7 operations for street clearing, debris removal and other operations associated with the severe weather. This event resulted in a preliminary damage assessment of \$361,000 for Bothell and qualified under DR#1825. On December 14-15, 2006 a windstorm causing downed trees and power lines which resulted in major power outages throughout the City for up to one week occurred. This event resulted in a preliminary damage assessment of \$73,808 for Bothell and qualified under DR#1682. On August 30, 1999 Bothell had hail that was <sup>3</sup> /4" in diameter that resulted from a severe thunderstorm. In 1995, a windstorm which resulted in downed trees and major power outages for up to

	one week resulted in the City
	receiving reimbursement through
	FEMA's Public Assistance
	Program for expenses incurred.
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HAZARD	Risk Summary	VULNERABILITY SUMMARY	IMPACT SUMMARY
Tsunami	Bothell is not at risk for	VULNERADILITY SUMMARY	IMPACI SUMMARY
1 Sullalli	tsunamis.		
Volcano	Bothell is not at a direct		
Volcano	risk for volcano activity.		
	The largest impact		
	would be ash-fall.		
Wildfire	A fire needs three	Wildfires are rare occurrences in	The NCDC does not list any
	elements in the right	Bothell. The National Climatic	wildfires or forest fires for
	combination to ignite	Data Center does not have any	Bothell, however the City's Fire
	and grow $-a$ heat	records of wildfires that have	Department has identified areas
	source, fuel, and oxygen.	occurred in Bothell. Typically	within the City that could cause
	How a fire behaves	any wildfires are contained	potential problems. These areas
	primarily depends on	rapidly and remain small, so that	are shown in Attachment 5:
	the characteristics of	each has a minimal impact.	Urban Wildfire Map.
	available fuel, weather	<b>•</b>	•
	conditions, and terrain.	The Bothell Fire Department	A major fire in downtown did
	Weather plays a role in	trains up to 15 of our members	break out at the Mercantile
	the forms of wind, low	in Wildland firefighting. All	Building on July 22, 2016, and
	precipitation, and	wildland firefighters are certified	damaged and closed more than
	lightening. Terrain is an	red card. In addition we have 3	20 businesses. The fire dealt a
	additional factor, as the	members certified as engine	blow to the redevelopment
	topography of a region	bosses along with a certified	program and required state aid
	or local area influences	strike team leader and another in	for rebuilding
	the amount and	training. The Bothell Fire	
	moisture of available	Department also has a fully	
	fuel. Other elements	functioning Type 6 wildland	
	like barriers and land	engine company that is	
	elevation also need to be	operational throughout the	
	taken into account as	wildland season.	
	highways and lakes can	With the increasing on the riteria	
	affect spread of fire, as	With the increasing urbanization, the threat of wildland/urban	
	can an uphill/downhill orientation, as fire	interface fire grows, due to a rise	
	spreads more easily as it	in the building of homes and the	
	moves uphill. In	prevalence of more	
	addition to natural	comprehensive transportation	
	conditions for fire	systems. Many City residents	
	viability, humans also	live outside of the City center	
	play a role. For these	while commuting or	
	reasons, fire hazards are	telecommuting to work. As a	
	a very real risk for	result, wildfires can encroach	
	Bothell residents and	onto residential properties and	
	businesses and must be	structure fires can invade	
	vigilantly prepared for	wooded areas.	

and mitigated against in efforts to keep our region and surrounding counties and communities safer.	
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HAZARD	Risk Summary	VULNERABILITY SUMMARY	IMPACT SUMMARY
Civil	Civil disorders have	The economic impact to urban	Bothell has no history of civil
		and Gatherings" is governed by policy BPD 408.10	
Cyber Incident	Like other governments and businesses across the nation, Bothell relies heavily on computers and networks to conduct its normal business and is therefore susceptible to cyber- attack.	Cyber-attacks against computer systems could potentially shut down radio, telephone, and computer networks used to control and manage City or regional services, resulting in loss of those services or the inability to properly dispatch public	Bothell has not had any reports or incidents of cyber-terrorism. However, the City has implemented mitigation efforts against the threat of cyber- terrorism are being addressed in several ways, one of which is incorporating plans that outline

	safety and other personnel to the	response procedures and creating
	incidents.	redundant data sites.
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HAZARD	RISK SUMMARY	VULNERABILITY SUMMARY	IMPACT SUMMARY
Dam Failure	Bothell is not at direct risk of dam failures as we do not have dams and are not in an inundation area. However, Seattle Public Utilities (SPU) Tolt Dam and reservoir is the primary source of drinking water supply for the city's water system.	There are no direct dam failure impacts to property within the city. Loss of water supply associated with the Tolt Dam failure located approximately 25 miles east of Bothell would result in severe water supply and fire response impacts.	Bothell has no history of direct, or indirect impacts from dam failure events.
Hazardous Materials Incident	A majority of the fixed planning facilities in Bothell are located in the commercial and industrial areas of the City. Based on the location of the fixed facilities, that area of the City has a higher probability of a chemical release.	The industrial and geographic characteristics of our City continue to place Bothell at risk for probably hazardous materials releases. Many factors determine the impact of a potential incident including quick and solid decision-making by emergency officials, location and type of release, evacuation and shelter-in-place needs, public health concerns, and relevant economic considerations. Additionally, while most incidents are generally brief, the resulting recovery and cleanup may take time to exact. Bothell Fire utilizes the Eastside Hazmat team which is comprised of hazmat team members from Bothell, Woodinville, Kirkland, Bellevue, Eastside Fire and Redmond. The Bellevue Fire Department maintains Hazmat One which will be dispatched in the event of a Hazmat incident. We are also working on additional HazTech units which may be located in	There has been one significant spill in Bothell which occurred at the AT&T building on August 1, 2008. Cleanup at this site has been on-going since that time and is not complete.

Woodinville and Eastside Fire. In addition, Bothell Fire trains	
with and maintains a large multi person/patient decontamination unit located in a mobile trailer at	
our Queensbourough station #44.	

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HAZARD	RISK SUMMARY	VULNERABILITY SUMMARY	IMPACT SUMMARY
Public	Public health	All disasters have public health	Bothell has not had any recorded
Health	consequences may be	consequences. Natural disasters	public health emergencies.
Emergency	direct or indirect and	will affect local populations by	
	can affect both a local	causing physical injury, property	
	population's health and	loss and economic hardship. We	
	its health infrastructure.	also are vulnerable to pandemics	
	The direct consequences	and outbreaks of other novel	
	of a public health	communicable diseases, as well	
	disaster are counted in	as to the chronic diseases that	
	the number of injuries	increasingly affect the health of	
	and fatalities occurring	the population. Although the	
	as a result of the	public health consequences of	
	incident.	each of these hazards may be	
		significant, they can be	
		moderated through proactive	
		planning, practice and	
		evaluation.	
Terrorism	Terrorist targets tend to	The U.S. population has largely	Bothell has no history of
	be located in urban	been spared the impacts of	terrorism events occurring.
	areas. Seats of	international terrorism until	
	government, stadiums	recently. However, Washington	
	and public meeting	State and King County locations	
	places are high-value	have witnessed examples of	
	targets that produce	terrorist activity over the last	
	substantial news	decade.	
	coverage.		

### Assets at Risk

ASSET	VALUE (\$)	RISK SUMMARY	VULNERABILITY	IMPACT SUMMARY
			Summary	
Park at	N/A	Floodplain Area	The amphitheater has	While the amphitheater has
Bothell		_	flooded numerous	flooded numerous times since it
Landing			times, however there	was built, it was planned for in
Amphitheater			has been no damage	the design and construction to
			associated with the	withstand that.
			flooding.	
North Creek	Turf	Zone X	Fields 1, 2 and 4 are	This area is primarily open
Sportsfields 1,	replacement	Floodplain	synthetic turf fields.	space, however fields 2 and 4
2, 3, and 4	\$1million at	Liquefaction	Damage to the	have restroom/ maintenance
	each field;	Area	synthetic turf fields and	storage facilities on site. The
	restroom		the dirt infield of North	fields generate approximately

facilities ~\$400k; lighting ~\$700k; lost	potential to be significant and costly in	\$250,000 in revenue per year and cost about one million dollars to replace per field. The impact to the Department and
revenue	the event of levy failure.	City could be significant.

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Asset	VALUE (\$)	RISK SUMMARY	VULNERABILITY	IMPACT SUMMARY
Park at Bothell Landing	~\$4.5million	Liquefaction Area Urban Wildfire Area	SUMMARY This area is at a low risk for hazards due to liquefaction or urban wildfire.	This 5.87 acre park has buildings of historical significance to Bothell. A couple of the buildings are on the National Historical Registry. (Hannan House/ Historical Museum, Berkstrom Cabin, Bothell's 1 <sup>st</sup> Schoolhouse, and the Lytle House). The property also has restrooms, parking, trails, kayak rentals with water access, picnic tables and playground areas throughout the park. The park is one of Bothell's most heavily used parks given its location next to the regional King County trail system and being downtown in Bothell. The impact to the City would be medium.
East Norway Hill	N/A	Urban Wildfire Area	This area is at a low risk for urban wildfire.	The 25 acre park has a large open play field with a picnic table and bench. The rest of the park is mostly wooded trails and wetlands. The impact is low.
Blyth Park	~ \$250k	Urban Wildfire Area	This area is at a low risk for urban wildfire.	This 40.8 acre park has rentable large and small shelters, picnic areas with tables, horseshoe pit, volleyball, playground, an 18- hole disc golf course, parking, restrooms, trails and trail connections to W Riverside Trail, Sammamish River Trail and Bothell's newest open space formerly known as the Wayne Golf Course. The revenue streams from the rentable shelters if they were rendered unusable would have a medium impact on the Department.

Haynes Open N Space	N/A	This area is at a low risk for urban wildfire.	This 4.7 acre area is primarily open space and the impact is low.

ASSET	VALUE (\$)	RISK SUMMARY	Vulnerability Summary	IMPACT SUMMARY
Centennial Park	\$3 million	Urban Wildfire Area	This area is at a low risk for urban wildfire.	This 54 acre park is primarily made up of passive use open space and trails. The park also has one of Bothell's first school houses which is available for rent. The park contains a small play area, walkable trails, a picnic shelter, restrooms and parking. The impact is relatively low.
North Creek Forest	N/A	Urban Wildfire Area	This area is at a low risk for urban wildfire.	This 64 acre park is primarily made up of open space and trails. The impact is low.
Former Wayne Golf Course	N/A	Urban Wildfire Area	This area is at a low risk for urban wildfire.	The open space contains 85 acres of passive use open space and 4 acres of active space. The City is currently performing a Feasibility study on the 4 acres of active space to determine what kind of economic engine could be placed there to help offset the costs of restoring and maintaining the newly acquired open space. The impact is low.
Valhalla Sewer Lift Station	\$1.1 million	Landslide Area	This area is at a low risk for landslide.	Backed up sewers which could be a potential health hazard and river contamination.
East Riverside Drive Sewer Lift Station #43	\$1.19 million	Landslide Area	This area is at moderate risk for landslide.	Backed up sewers which could be a potential health hazard and river contamination.

## **Plan Update Process**

Since 2005, the City of Bothell has been part of an annex to the King County Regional Hazard Mitigation Plan.

The Emergency Preparedness Manager, Jennifer Warmke, led the most recent revision of the City of Bothell's Annex to the King County Regional Hazard Mitigation Plan and will maintain the document in cooperation with the King County Office of Emergency Management.

The City utilized the King County HIVA Hazard Analysis which identifies all the likely natural and technological hazards that might or have occurred within the county. The city reviewed all hazards and addressed those that affect the city in the Hazard Risk and Vulnerability Summary.

This annex evaluates the risks that all natural hazards pose to the residents and property of the City of Bothell by presenting a profile and analysis of hazardous events, an assessment of vulnerable community assets, potential hazard mitigation strategies, and methods for building community support and ensuring adoption.

This was done by incorporating existing plans and ordinances and working closely with King and Snohomish counties, local jurisdictions, businesses, residents and City departments, along with a wide variety of regional agencies to ensure that proper information was obtained and that every potential aspect to risks and mitigation was addressed.

A planning team, composed of planning participants and technical advisors (see Jurisdiction Planning Team) provided technical review and input for the annex development and also served as the recommending body to the Bothell City Council.

Additionally, there were a number of opportunities for the City to become involved in the regional planning process. The City of Bothell was represented at the all planning meetings that were conducted by the King County Office of Emergency Management on December 13<sup>th</sup>, 2018, March 4<sup>th</sup>, 2019, June 3<sup>rd</sup>, 2019, July 25<sup>th</sup>, 2019 and August 22<sup>nd</sup>, 2019.

The residents of Bothell were also able to provide comments on participating in this process. Information was provided on the City's website and during two public/community outreach events on August 13<sup>th</sup>, 2019 and September 5<sup>th</sup>, 2019.

Opportunities for public comment were provided during the drafting stage and prior to approval. All meetings were posted and open to the public. A copy of the draft was made available on the City of Bothell's Emergency Preparedness page at <u>www.bothellwa.gov/preparedness</u> and by request to the Emergency Preparedness Manager. Specific comments and questions about the annex were directed to the City of Bothell's Emergency Preparedness Manager.

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NAME	TITLE	ORGANIZATION	Contribution
Jennifer Warmke	Emergency Manager	City of Bothell	Composer
Jaclynn Brandenburg	Deputy Public Works	City of Bothell	Contributor
	Director		
Dan Peddy	Public Works Ops Mgr	City of Bothell	Contributor
Boyd Benson	Utilities and	City of Bothell	Contributor
	Development Division		
	Manager		
Jeff Sperry	Fleet and Facilities Mgr	City of Bothell	Reviewer
Steve Morikawa	Capital Division Mgr	City of Bothell	Contributor
Nik Stroup	Parks Director	City of Bothell	Contributor
Dave Swasey	Building Official	City of Bothell	Contributor
Michael Kattermann	Community	City of Bothell	Reviewer
	Development Director		
Jeff Smith	Development Services	City of Bothell	Reviewer
	Manager		
Daryn Brown	GIS Supervisor	City of Bothell	Contributor
Doug McDonald	Deputy Chief Fire Ops	City of Bothell	Contributor

### Jurisdiction Planning Team

	1		
Butch Noble	Deputy Chief	City of Bothell	Contributor
	Community Risk		
	Reduction		
Lisa Rossiter	IS Systems Supervisor	City of Bothell	Contributor
Laura Moon	Finance Admin Support	City of Bothell	Contributor
	Manager		
Kellye Mazzoli	Assistant City Manager	City of Bothell	Reviewer
Mike Johnson	Police Captain	City of Bothell	Reviewer

## Plan Update Timeline

PLANNING ACTIVITY	DATE	Summary	Attendees
Initial Planning Meeting	June 4, 2019	Review of process, annex and mitigation strategy discussion, timeline.	Jennifer W., Jaclynn B., Dan P., Boyd B., Nik S., Dave S., Daryn B., Butch N., Doug M. Lisa R., Mike J., Laura M., Michael K., Steve M.
GIS Map Discussion	June 18, 2019	Discuss of GIS and mapping needs for plan.	Jennifer W., Daryn B.
Review of Annex (pages 1-12)	July 16, 2019	Thorough review of pages 1-12 of annex, including maps; outline of future timelines.	Jennifer W., Jaclynn B., Nik S., Dan P., Dave S., Doug M., Butch N., Laura M., Boyd B., Daryn B.
Development of Mitigation Strategies	July 16, 2019	General review of previous strategies and brainstorm/research of new strategies.	Jennifer W., Jaclynn B., Nik S., Dan P., Dave S., Doug M., Butch N., Laura M., Boyd B., Daryn B.
<b>Review of Public</b> Works Mitigation Strategies	July 31, 2019	Reviewed mitigation strategies with public works (including transportation, capital facilities, water and wastewater, utilities and development services)	Jaclynn B., Dan P., Steve M., Boyd B., Jennifer W.
Finalization of GIS Maps and Identification of Assets	August 8 <sup>th</sup> , 2019	Finalized mapping components and reviewed city assets in hazard areas.	Daryn B., Jennifer W.
Review of Mitigation Strategies and Final Annex Review	August 14 <sup>th</sup> , 2019	Review and prioritization of mitigation strategies and final annex review.	Nik S., Daryn B., Mike K., Jaclynn B., Dan P., Steve M., Jennifer W.

## Public Outreach

## Public Outreach Events

EVENT	DATE	Summary	ATTENDEES
Preparedness and	August 13th, 2019	The City teamed with the	EM Staff, UW students,
Mitigation Outreach		UW-B Nursing Program to	city staff, Shag residents,
Event		provide a preparedness and	and other members of
		mitigation outreach event.	the public
		The event was shared widely	-
		on a variety of social media	

		channels, included a write-up by UW-Bothell, and attracted more than 50 city staff, UW- Bothell students, and members of the public. The event included demonstrations, hands-on activities, games and refreshments.	
Event	Date	Summary	Attendees
Preparedness and Mitigation Outreach Event	September 5 <sup>th</sup> , 2019	Combined with Premera to provide a preparedness and mitigation outreach event. Information was shared via social media and the event included educational sessions and handouts.	Members of the public, Premera employees and families, city staff, EM and Fire Staff

## **Jurisdiction Hazard Mitigation Program**

Hazard mitigation strategies were developed through a two-step process. Each jurisdiction met with an internal planning team 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.

Bothell's future mitigation efforts were established based on plans and studies (listed below) as well as information provided by the City's own subject matter experts. Each of the initiatives in this plan was identified as necessary to meet the goals and objectives of the City as they relate to level of service, preservation, health and safety, and design standards. Each department that submitted projects for the various plans within the City reviewed the benefit of the proposed project, cost of project and the complexity of project before the projects were included in the Transportation, Waste Water, Fresh Water, and Comprehensive City Plans.

Within the City's Annex, all of the projects were prioritized based on the information provided by each department and documentation from contractors, engineers and researchers and the degree to which the projects collaborate with the City's strategies and goals as well as the regional strategies and goals established by King County Office of Emergency Management. In addition, each project was determined to align with the City of Bothell's future strategic and financial goals.

#### Plan Monitoring, Implementation, and Future Updates

King County leads the mitigation plan monitoring and update process and schedules the annual plan check-ins and bi-annual mitigation strategy updates. Updates on mitigation projects are solicited by the county for inclusion in the countywide annual

#### 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

report. As part of participating in the 2020 update to the Regional Hazard Mitigation Plan, every jurisdiction agrees to convene their 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 partners any federal notices of funding opportunity for the Hazard Mitigation Assistance 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.

#### **Plan Integration**

When plans and planning processes are more integrated, it is possible to achieve greater impact through clearer definition, smarter investment, partnerships, and innovation. Successful integration requires coordination between planning efforts and, especially, cross-participation in planning processes. The goals of plan integration are to:

- Ensure consistency with jurisdiction priorities across all planning processes
- Leverage opportunities to further multi-benefit initiatives that are supported by multiple planning processes
- Achieve common measures of success for outcomes

The hazard mitigation plan can benefit from integration with planning processes that:

- Prioritize and invest in infrastructure
- Regulate development
- Set strategic direction for programs

To other planning processes, the hazard mitigation plan brings risk and vulnerability information to help prioritize projects and set development standards or regulations. The mitigation plan also comes with potential funding for investments in cost-effective risk-reduction projects. On the other hand, the mitigation plan depends on other plans and processes to implement many strategies. Since the mitigation plan is not itself a regulatory or budgetary document, strategies identified in the mitigation plan are often best implemented through those processes or programs.

There are many plans and planning processes within King County that impact hazard risk. These include strategic plans, long-range plans, resource plans, and capital plans.

PLAN TITLE	DESCRIPTION	LEAD	INTEGRATION STRATEGY
Capital Facilities Plan	Capital facilities plans identify and prioritize large scale projects.	Public Works Department	<ul> <li>Integrate mitigation strategies from capital plans</li> <li>Encourage the use of hazard information to prioritize capital improvements</li> <li>Support city departments with funding gaps in accessing Hazard Mitigation Assistance to complete or expand projects that are identified as important but are unfunded or partially funded</li> </ul>
Comprehensive Plan	This plan is the long- range guiding policy document for all land use and development regulations in the City of Bothell.	Executive Department	<ul> <li>Encourage updates to the critical areas ordinance</li> <li>Provide feedback and comments on the plan</li> </ul>
Comprehensive Emergency Management Plan	The CEMP is for use by local government department directors,	Executive Department	• The Hazard Mitigation Plan provides the risk profiles that support the

	managers and staff in mitigating, preparing for, responding to, and recovering from disasters.	<ul> <li>development of the CEMP</li> <li>The Hazard Mitigation Plan is also a component (the mitigation component) of the CEMP</li> </ul>
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#### **Continued Public Participation**

Plans

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.

Plan Title	RESPONSIBLE AGENCY	POINT OF CONTACT	RELATIONSHIP TO Hazard Mitigation Plan
Comprehensive Plan	Community Development	Michael Kattermann	Helped build mitigation strategies
Comprehensive Emergency Management Plan	Emergency Management	Jennifer Warmke	Referenced in Annex and Mitigation Strategies
Capital Facilities Plan	Finance	Gretchen Zundel	Helped build mitigation strategies
Transportation Improvement Program	Public Works	Steven Morikawa	Helped build mitigation strategies
<b>Biennial Budget</b>	Finance	Laura Moon	City funding
Wastewater System Comprehensive Plan	Public Works	Boyd Benson	Helped build mitigation strategies
Water System Comprehensive Plan	Public Works	Boyd Benson/Dan Peddy	Helped build mitigation strategies
Stormwater Comprehensive Plan	Public Works	Boyd Benson	Helped build mitigation strategies
Continuity of Operations/Government Plan	Emergency Management	Jennifer Warmke	Referenced in Mitigation Strategies
Parks, Recreation and Open Space Plan	Parks	Nik Stroup	Currently under update

### Hazard Mitigation Authorities, Responsibilities, and Capabilities

The City of Bothell's Annex to the Regional Hazard Mitigation Plan was created utilizing project information outlined in multiple strategic, comprehensive and financial plans developed by the City. These plans include:

PROGRAM/POLICY	Responsible Agency	POINT OF CONTACT	RELATIONSHIP TO HAZARD MITIGATION PLAN
Bothell Municipal Code	City Council	Jennifer Phillips	City Regulations
Building Codes	Building Division	David Swasey	Building Regulations
Fire Codes	Fire	Butch Noble	Fire Regulations
Bothell Design and Construction Standards	Public Works	Boyd Benson	Design and construction standards and specifications
Comprehensive Emergency Management Plan	Emergency Management	Jennifer Warmke	All Aspects
Critical Areas Ordinance	Planning Division	Jeff Smith	Planning Regulations
Zoning	Planning Division	Jeff Smith	Zoning Regulations
State Environmental Policy Act	Community Development	Jeff Smith	Environmental Regulations
<b>Procurement Policy</b>	Finance	Chris Bothwell	Contracts, Professional Services, Goods
2021-2022 Budget	Finance	Chris Bothwell	Contracts, Professional Services, Goods
Bothell Police Department	Police	Mike Johnson	Civil Disturbance and Terrorism
CJIS (Criminal Justice Information Systems) Security Requirement	Information Services	Lisa Rossiter	Cybersecurity
PCI (Payment Card Industry) Security Requirements	Information Services	Lisa Rossiter	Cybersecurity
Washington Cities Insurance Authority (WCIA) cybersecurity requirements	Information Services	Lisa Rossiter	Cybersecurity
City of Bothell Information Security Administrative Order 2.4.1	Information Services	Lisa Rossiter	Cybersecurity

### Programs, Policies, and Processes

## Entities Responsible for Hazard Mitigation

AGENCY/ORGANIZATION	POINT OF CONTACT	RESPONSIBILITY(S)
<b>Emergency Preparedness</b>	Jennifer Warmke	Composer
<b>Community Development</b>	Dave Swasey	Contributor
Public Works	Jaclynn Brandenburg	Contributor
Parks	Nik Stroup	Contributor
Fire	Doug McDonald	Contributor

Police	Mike Johnson	Reviewer
Executive	Kellye Mazzoli	Reviewer
Information Services	Lisa Rossiter	Contributor
GIS	Daryn Brown	Contributor
Finance	Laura Moon	Contributor

#### National Flood Insurance Program

#### National Flood Insurance Program Compliance

What department is responsible for floodplain management in your community?	Public Works
Who is your community's floodplain administrator? (title/position)	Public Works Director
What is the date of adoption of your flood damage prevention ordinance?	Ordinance 1946; July 2005
When was the most recent Community Assistance Visit or Community Assistance Contact?	October 4, 2012
Does your community have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are?	No
Do your flood hazard maps adequately address the flood risk within your community? If so, please state why.	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of training/assistance is needed?	No
Does your community participate in the 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?	No
How many Severe Repetitive Loss (SRL) and Repetitive Loss (RL) properties are located in your jurisdiction?	SRL: 0 RL: 0
Has your community ever conducted an elevation or buy out of a flood-prone property? If so, what fund source did you use? If not, are you interested in pursuing buyouts of flood prone properties?	No

#### Hazard Mitigation Strategies

Bothell's future mitigation efforts were established based on plans and studies (listed in Programs, Policies and Processes) as well as information provided by the City's own subject matter experts. Each of the initiatives in this plan was identified as necessary to meet the goals and objectives of the City as they relate to level of service, preservation, health and safety, and design standards. Each department that submitted projects for the various plans

within the City reviewed the benefit of the proposed project, cost of project and the complexity of project before the projects were included in the Transportation, Waste Water, Fresh Water, and Comprehensive City Plans.

All of the projects were prioritized based on the information provided by each department and documentation from contractors, engineers and researchers and the degree to which the projects collaborate with the City's strategies and goals as well as the regional strategies and goals established by King County Office of Emergency Management. In addition, each project was determined to align with the City of Bothell's future strategic and financial goals.

STRATEGY	DESCRIPTION	Priority	STATUS
Improvements to Morningside Reservoir and Booster Station.	Provide seismic valves, security barriers and improve notification and response.	N/A	Completed
Rehabilitate City Bridges	Provide for seismic and safety improvements, as well as the preservation and maintenance of the existing integrity.	N/A	Completed
Backup power at Maywood water pump station	Installation of backup power supply.	Included in 2019 strategies	Now included in 2019 Hazard Mitigation Strategies
Realign SR 522	Create a new streamlined "T" intersection with left turn lanes, sidewalks, traffic signals, utilities, lighting and landscaping	N/A	Completed
Disaster Preparedness education	Provide education to general public and businesses within the community.	Included in 2019 strategies	Now included in 2019 Hazard Mitigation Strategies
Emergency Funding	Provide funding for immediate action to address landslides, erosion, deterioration, vandalism, and spot hazardous locations.	N/A	Removing
Capacity and Safety Improvements	Provide capacity and safety improvements and include roadway widening to a five lane roadway with intermittent median landscaping, bicycle lanes, curb, gutter and sidewalk.	Included in 2019 strategies	Now included in 2019 Hazard Mitigation Strategies
		1	CONTINUED ON NEXT

## 2015 Hazard Mitigation Strategy Status

STRATEGY	DESCRIPTION	Priority	Status
SR 524 Intersection	Widen the roadway in the	N/A	Removed
Improvements	southbound direction from 2		
	to 3 lanes from SR 524 to		
	about 500' north of 220th St		
	SE.		

Safety and Access Improvementslimited to roadway widening to provide for left turn packets and improve sight distances.N/ACompletedMultiway Boulevard ImprovementsProvide four travel lanes, left turn land, two sided landscape with parking and wide sidewalks.N/ACompletedWell-Field RedevelopmentPen Park Reservoir Tank was replaced with new 1MG reservoir tank. Upgrade of well-fields determined to be cost prohibitive, but city will maintain water rights.Included in 2019 strategiesNow included in 2019 Hazard Mitigation StrategiesSammamish River Bridge replacementSeismic retrofit of bridge. business access and transit lane in both directions, sidewalk to the north side of highway and other related street improvements.N/AConstruction in 2019Horse Creek Pipeline upgradeProvide for a hybrid open channel/pipe system upgrade.N/ACompletedMaintain compliance with National Flood Insurance ProgramMeet the minimum requirements of the NFIP by: enforcing the adopted flood damage prevention ordinance; participating in the floodplain identification and mapping updates; and providing public assistance and information on floodplain requirement and impacts.N/ASpecific projects				
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impacts.       impacts.         Repetitive Loss       Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas.       N/A       Specific projects addressed in 2019 Hazard Mitigation Strategies.				
Repetitive LossWhere appropriate, supportN/ASpecific projectsMitigationretrofitting, purchase, or relocation of structures located in hazard-prone areas.N/ASpecific projects addressed in 2019 Hazard Mitigation Strategies.		floodplain requirement and		
Mitigationretrofitting, purchase, or relocation of structures located in hazard-prone areas.addressed in 2019 Hazard Mitigation Strategies.				
relocation of structures Mitigation Strategies.	<b>Repetitive Loss</b>		N/A	
located in hazard-prone areas.	Mitigation			
				Mitigation Strategies.
CONTINUED ON NEXT		located in hazard-prone areas.		
				CONTINUED ON NEXT

PAGE...

STRATEGY	DESCRIPTION	Priority	Status
Plan Integration	Integrate the hazard mitigation	N/A	Plans are already
	plan into other plans,		integrated with this
	ordinances, or programs to		annex.
	dictate land uses within the		
	jurisdiction.		

Support County-Wide Initiatives	Continue to support county- wide initiatives identified in this plan.	N/A	Initiatives integrated into this annex.
Plan Maintenance Support	Actively participate in the plan maintenance strategies as identified in this plan.	N/A	Remove, this is already part of the plan.
Standby Power at City Hall	Provide for standby power generator sufficient to operate City Hall in the event of a loss of electrical power.	Included in 2019 strategies	Now included in 2019 Hazard Mitigation Strategies
Maintain Emergency Response Supplies	Maintain personnel supplies, consumables, and equipment to support 150 responders for seven days of emergency response activities.	N/A	Remove, this has been addressed in budgets.
Generator Power at Bothell Operations Center	Provide for standby power generator sufficient to operate the Bothell Operations Center in the event of a loss of electrical power.	Included in 2019 strategies	Now included in 2019 Hazard Mitigation Strategies
Ensure Operational Readiness of the ECC	Continue to ensure the operational readiness of the ECC to include technology updates.	N/A	Remove, this has been addressed in budget.
Establish a backup ECC	Establish a backup ECC at the Bothell Operations Center.	Included in 2019 strategies	Now included in 2019 Hazard Mitigation Strategies
Replacement of Aging Fire Stations	Replacement of three aging fire stations with new facilities that meet modern requirements.	N/A	Remove. A bond has been passed to fund this project.
Eliminate flood hazard in northbound right lane of 120 <sup>th</sup> Ave NE	Project will separate right-of- way flows from Parr Creek and elevate the roadway along with stabilization measure to prevent future roadway flooding and settlement.	Included in 2019 strategies	Now included in 2019 Hazard Mitigation Strategies
Eliminate flood hazard along 35 <sup>th</sup> Ave SE between 228 <sup>th</sup> and 240 <sup>th</sup>	Project will increase pipe sizes as necessary for capacity along 35 <sup>th</sup> Ave and 24 <sup>th</sup> Ave and will restore Cole/Woods Creek to its natural channel to prevent splitting flows down 35 <sup>th</sup> Ave SE.	Included in 2019 strategies	Now included in 2019 Hazard Mitigation Strategies

## 2020 Hazard Mitigation Strategies

			D
Strategy	LEAD AGENCY/POC	TIMELINE	Priority

Backup Power for	Public Works/Fleet &	Two project currently	High
<b>Critical City Facilities</b>	Facilities Mgr &	have applications under	_
-	Water/Sewer Manager	HMGP.	
Ensure Community	Emergency Preparedness	Currently looking to hire	High
Resilience		part-time position for	_
		CERT and Ham.	
Enhanced Cyber	Information Services/IS	Seeking funding options.	High
Security	Systems Supervisor		
Seismically Resilient	Public Works/Utilities &	Looking to put into next	Moderate
Water System	Development Services	budget biennium.	
	Mgr		
Reduce Roadway	Public Works/Capital	Many projects listed in	Moderate
Hazards	Division Mgr	our Capital Facilities	
		Plan. 10 year goal for	
		completion.	
Road Improvements to	Public Works/Capital	Some projects listed in	Low
Reduce Emergency	Division Mgr	Capital Facilities Plan.	
Response Times		Seeking additional	
		funding sources.	

## Hazard Mitigation Strategy

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Lead POC Public Works Fleet & Facilities Manager; Water/Sewer Manager	Partner Po Contact	ints of	Addres	Hazards	ervices lic Safety opment	Funding Source / Estimated Costs \$ 4,000,000 • General Fund • Utility Funds • Grants
<b>Strategy Vision/Object</b> A community that can co			iter and a		out of our	
interruption.	0.000		- <i>j</i> 0]			
Ensure back up power for	or critical city	tacilities.				
	each	<ul><li>5-Year Objec</li><li>Continue t</li></ul>	to explor	e alternate ways to ties in the event of	• 6	<b>g-Term Objectives</b> Lity facilities have backup power
<ul> <li><b>2-Year Objectives</b></li> <li>Identify the needs of facility and order needs electrical studies to er proper sizing of equip associated needs.</li> </ul>	each essary nsure for oment and	<ul><li>5-Year Objec</li><li>Continue t</li></ul>	to explor ical facili	ties in the event of	f b	,
<ul> <li><b>2-Year Objectives</b></li> <li>Identify the needs of facility and order needs electrical studies to er proper sizing of equip associated needs.</li> <li>Explore funding optio include grants.</li> </ul>	each essary nsure for oment and ons to	<ul> <li>5-Year Objec</li> <li>Continue t power critic</li> </ul>	to explor ical facili	ties in the event of	f b	City facilities have backup power
<ul> <li>2-Year Objectives</li> <li>Identify the needs of facility and order needs electrical studies to er proper sizing of equip associated needs.</li> <li>Explore funding optic include grants.</li> <li>Implementation Plan/A</li> </ul>	each essary nsure for oment and ons to Actions	<ul> <li>5-Year Objec</li> <li>Continue t power critican electrica</li> </ul>	to explor ical facili al power	ties in the event of loss.	f b	City facilities have packup power upplies.
<ul> <li><b>2-Year Objectives</b></li> <li>Identify the needs of facility and order needs electrical studies to enproper sizing of equip associated needs.</li> <li>Explore funding optic include grants.</li> <li><b>Implementation Plan/</b></li> <li>Provide for generator Coordination Center.</li> </ul>	each essary nsure for oment and ons to Actions power to suf	<ul> <li>5-Year Objec</li> <li>Continue t power criti an electrics</li> <li>fficiently opera</li> </ul>	to explor ical facili al power ute the Bo	ties in the event of loss.	f C Center and	City facilities have ackup power upplies.
<ul> <li>2-Year Objectives</li> <li>Identify the needs of facility and order needs electrical studies to er proper sizing of equip associated needs.</li> <li>Explore funding option include grants.</li> <li>Implementation Plan/A</li> <li>Provide for generator</li> </ul>	each essary nsure for oment and ons to Actions power to suf	<ul> <li>5-Year Objec</li> <li>Continue t power critican electrica</li> <li>an electrica</li> <li>an electrica</li> </ul>	to explor ical facili al power ate the Bo ue critica	ties in the event of loss. othell Operations ( l government fund	f f b s Center and	City facilities have packup power upplies. I backup Emergency ity Hall.

#### **Performance Measures**

- Bothell Operations Center will have a backup power supply and will be able to function as a backup Emergency Coordination Center and Departmental Operations Center.
- City Hall will have backup power needed to continue critical continuity of government operations.
- Uninterrupted fire flow.
- Reduce traffic congestion to allow emergency response and egress.

Lead POC	Partner Points of Contact	Hazards Mitigated / Goals Addressed	Funding Source / Estimated
Emergency Manager		<ul> <li>All Hazards</li> <li>Goals: <ul> <li>Health/Human Services</li> <li>Community/Public Safety</li> <li>Economic Development</li> <li>Government Practices</li> <li>Quality Education</li> <li>Strong, Vibrant</li> <li>Neighborhoods</li> </ul> </li> </ul>	Costs \$ 5,000 • General Func • Grants • Citizen Corps
	erstands and prepares for , as well as the limitations	the various hazards associated with liv of government response capabilities a	
• CERT train 20 con members		<b>bjectives</b> duct two joint Ham CERT exercises.	Long-Term Objectives • A prepared, resilient community.
members Engage with 30 bus Implementation Plan Continue to conduce Create a Citizen Co Develop a sustainal Train 10 of Ham ra	Immunity     • Con       sinesses     /Actions       ct at least one Communit     CE       orps program to retain CE     CE       ble Ham radio program.     Include 1       idio operators to include 1     CE	duct two joint Ham CERT exercises. y Emergency Response Team (CERT) ERT trained volunteers.	<ul> <li>Objectives</li> <li>A prepared, resilient community.</li> </ul>

Lead POC	Partner Points of Contact	Hazards Mitigated / Goals Addressed	Funding Source / Estimated
IS Systems Supervisor		• Cybersecurity	Costs
		<ul><li>Terrorism</li><li>Goals:</li></ul>	\$ 40,000
		<ul> <li>Health/Human Services</li> <li>Community/Public Safety</li> <li>Economic Development</li> <li>Government Practices</li> </ul>	<ul><li>General Func</li><li>Grants</li></ul>
Implement monitoring a		comprised of robust application, network f with sufficient training to fully utilize th	
Implement monitoring a systems and provide Inf	ormation Services staf	f with sufficient training to fully utilize th <b>Objectives</b>	e technologies.
Implement monitoring a systems and provide Inf	filtering n staff fully	f with sufficient training to fully utilize th	<ul> <li>technologies.</li> <li>Long-Term</li> <li>Objectives</li> <li>Protection of the City's network</li> </ul>
<ul> <li>Supplement monitoring a systems and provide Inf</li> <li>Supplemental email systems in place with trained and resource</li> <li>Supplementation Plan</li> </ul>	filtering n staff fully s assigned <b>5-Year</b> • Net plac assigned	f with sufficient training to fully utilize th <b>Objectives</b> work and access monitoring systems in the with staff fully trained and resources gned	<ul> <li>te technologies.</li> <li>Long-Term Objectives</li> <li>Protection of the City's network and infrastructur against cyber incidents.</li> </ul>
<ul> <li>mplement monitoring a systems and provide Information Provide Information</li> <li>P-Year Objectives</li> <li>Supplemental email systems in place with trained and resource</li> <li>mplementation Plan/</li> <li>Work with vendors</li> </ul>	filtering n staff fully s assigned <b>5-Year</b> • Net plac assigned <b>7Actions</b> and resellers to identif	f with sufficient training to fully utilize th <b>Objectives</b> work and access monitoring systems in the with staff fully trained and resources gned y systems best suited to Bothell's size and	<ul> <li>technologies.</li> <li>Long-Term Objectives</li> <li>Protection of the City's network and infrastructur against cyber incidents.</li> <li>resources.</li> </ul>
mplement monitoring a ystems and provide Inf -Year Objectives Supplemental email systems in place with trained and resource mplementation Plan/ Work with vendors Work with vendors	filtering n staff fully s assigned <b>5-Year</b> • Net plac assigned <b>'Actions</b> and resellers to identif to ensure appropriate	f with sufficient training to fully utilize th <b>Objectives</b> work and access monitoring systems in the with staff fully trained and resources gned	<ul> <li>technologies.</li> <li>Long-Term Objectives</li> <li>Protection of the City's network and infrastructur against cyber incidents.</li> <li>resources.</li> <li>ble for staff.</li> </ul>
<ul> <li>Implement monitoring a systems and provide Information and provide Information Plane</li> <li>Supplemental email systems in place with trained and resource</li> <li>Implementation Plane</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Demos</li> </ul>	filtering n staff fully s assigned <b>5-Year</b> • Net plac assigned <b>7Actions</b> and resellers to identif to ensure appropriate a to ensure sufficient on	f with sufficient training to fully utilize th <b>Objectives</b> work and access monitoring systems in the with staff fully trained and resources gned y systems best suited to Bothell's size and and in depth training resources are available	<ul> <li>technologies.</li> <li>Long-Term Objectives</li> <li>Protection of the City's network and infrastructur against cyber incidents.</li> <li>resources.</li> <li>ble for staff.</li> </ul>
<ul> <li>Implement monitoring a systems and provide Inf</li> <li>2-Year Objectives</li> <li>Supplemental email systems in place with trained and resource</li> <li>Implementation Plan/</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Demos</li> <li>Purchase and contra</li> </ul>	filtering n staff fully s assigned <b>5-Year</b> • Net plac assigned <b>5-Year</b> • Net <b>5-Year</b> • Net <b>5-Year</b> • Net <b>5-Year</b> • Net <b>5-Year</b> • Net <b>5-Year</b> • Net <b>5-Year</b> • Net <b>5-Year</b> • Net <b>5-Year</b> • Net <b>5-Year</b> • <b>5-Year</b> • <b>5-Yea</b>	f with sufficient training to fully utilize th <b>Objectives</b> work and access monitoring systems in the with staff fully trained and resources gned y systems best suited to Bothell's size and and in depth training resources are availal going support and maintenance contracts	<ul> <li>technologies.</li> <li>Long-Term Objectives</li> <li>Protection of the City's network and infrastructur against cyber incidents.</li> <li>resources.</li> <li>ble for staff.</li> </ul>
<ul> <li>systems and provide Inf</li> <li>2-Year Objectives</li> <li>Supplemental email systems in place with trained and resource</li> <li>Implementation Plan/</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Work with vendors</li> <li>Demos</li> <li>Purchase and contra</li> <li>Testing and implem</li> </ul>	ormation Services staf         filtering         n staff fully         s assigned         'Actions         and resellers to identified         to ensure appropriate sto         to ensure sufficient on         ct process         entation of email filter	f with sufficient training to fully utilize th <b>Objectives</b> work and access monitoring systems in the with staff fully trained and resources gned y systems best suited to Bothell's size and and in depth training resources are availal going support and maintenance contracts	<ul> <li>technologies.</li> <li>Long-Term Objectives</li> <li>Protection of the City's network and infrastructur against cyber incidents.</li> <li>resources.</li> <li>ble for staff.</li> </ul>

Utilities and	Partner Points of Contact	Hazards Mitigated / Goals Addressed	Funding Sources Estimated Costs
Development Services Manager	<ul> <li>Alderwood Water and Wastewater District</li> </ul>	<ul> <li>Earthquake</li> <li>Goals:         <ul> <li>Health/Human Services</li> <li>Community/Public</li> <li>Safety</li> </ul> </li> </ul>	<ul><li>\$ 200,000</li><li>Utility Fund</li><li>Grants</li></ul>
Strategy Vision/Objectiv The water supply system or		ically resilient.	
Ensure that the City maint:	ains a potable water supp	oly and adequate fire flow in the even	nt of an earthquake.
2-Year Objectives	5-Year Obje		
		ectives	Long-Term
<ul> <li>Begin conversations with Alderwood Water and Wastewater District.</li> <li>Explore options for a pricity wells.</li> <li>Explore alternative functions for a pricity wells.</li> </ul>	<ul><li>ith</li><li>Enter interproblem</li><li>Begin compump for</li></ul>	to agreements/contracts to fix	<ul> <li>Long-Term</li> <li>Objectives</li> <li>Water supply is more resilient throughout the city.</li> </ul>
<ul> <li>Begin conversations with Alderwood Water and Wastewater District.</li> <li>Explore options for a pricity wells.</li> <li>Explore alternative fundoptions.</li> </ul>	<ul> <li>ith</li> <li>Enter interproblem</li> <li>Begin constructions</li> </ul>	to agreements/contracts to fix onstruction to make improvements.	<ul> <li>Objectives</li> <li>Water supply is more resilient throughout the city.</li> </ul>
<ul> <li>Begin conversations with Alderwood Water and Wastewater District.</li> <li>Explore options for a pricity wells.</li> <li>Explore alternative fundoptions.</li> <li>Implementation Plan/Advention Plan/Adventin Plan/Advention Plan/Advention Plan/Advention Plan/Advention</li></ul>	<ul> <li>Enter int problem</li> <li>Begin constraints</li> <li>tions</li> <li>(#1 and #2) have wated</li> </ul>	to agreements/contracts to fix onstruction to make improvements. er pumps for firefighting and non-po c District to provide emergency and i perg reservoir tanks.	<ul> <li>Objectives</li> <li>Water supply is more resilient throughout the city.</li> </ul>
<ul> <li>Begin conversations with Alderwood Water and Wastewater District.</li> <li>Explore options for a pricity wells.</li> <li>Explore alternative fundoptions.</li> <li>Implementation Plan/Advention Plan/Adventin Plan/Advention Plan/Advention Plan/Advention Plan/Advention</li></ul>	<ul> <li>ith Enter interproblem</li> <li>pump for ding</li> <li>ctions</li> <li>lls (#1 and #2) have water on Maywood and Bloomb</li> </ul>	to agreements/contracts to fix onstruction to make improvements. er pumps for firefighting and non-po c District to provide emergency and i perg reservoir tanks.	<ul> <li>Objectives</li> <li>Water supply is more resilient throughout the city.</li> </ul>
<ul> <li>Begin conversations with Alderwood Water and Wastewater District.</li> <li>Explore options for a pricity wells.</li> <li>Explore alternative fundoptions.</li> <li>Implementation Plan/Advection Plan/Advectio</li></ul>	<ul> <li>ith Enter interproblem</li> <li>pump for ding</li> <li>ctions</li> <li>lls (#1 and #2) have water on Maywood and Bloomb</li> </ul>	to agreements/contracts to fix onstruction to make improvements. er pumps for firefighting and non-po c District to provide emergency and i perg reservoir tanks.	Objectives • Water supply is more resilient throughout the city. btable needs.

Lead POC	Partner Points of	Hazards Mitigated / Goals	Funding Sources
Capital Division Manager	<ul> <li>Contact</li> <li>Local/State/Federal funding agencies</li> <li>Local/State/Federal permitting agencies</li> </ul>	<ul> <li>Addressed</li> <li>Flood</li> <li>Goals: <ul> <li>Safe/Efficient</li> <li>Transportation</li> <li>Community/Public</li> <li>Safety</li> <li>Economic Development</li> </ul> </li> </ul>	<ul> <li>Estimated Costs</li> <li>\$ 12,200,000</li> <li>General Fund</li> <li>Capital Funds</li> <li>Stormwater Funds</li> <li>Grants</li> </ul>
Mitigation Strategy Floodwater/drainage resulting in lane closu inaccessible due to wa	oadway hazards due to flooding areas in the city is a chronic iss ires in heavily trafficked areas. I	ue during the wet winter months or During heavy rain and flooding ever nd movement associated with rains	nts road may become
	e lack of accessibility impacts tr or need access to these areas.	and the safety and qua	

- Eliminate flood hazard along 240<sup>th</sup> St SE between Fitzgerald Road and 35<sup>th</sup> Ave SE
- Eliminate landslide hazard along Bothell Everett Highway between 242<sup>nd</sup> St SE and 240<sup>th</sup> St SE

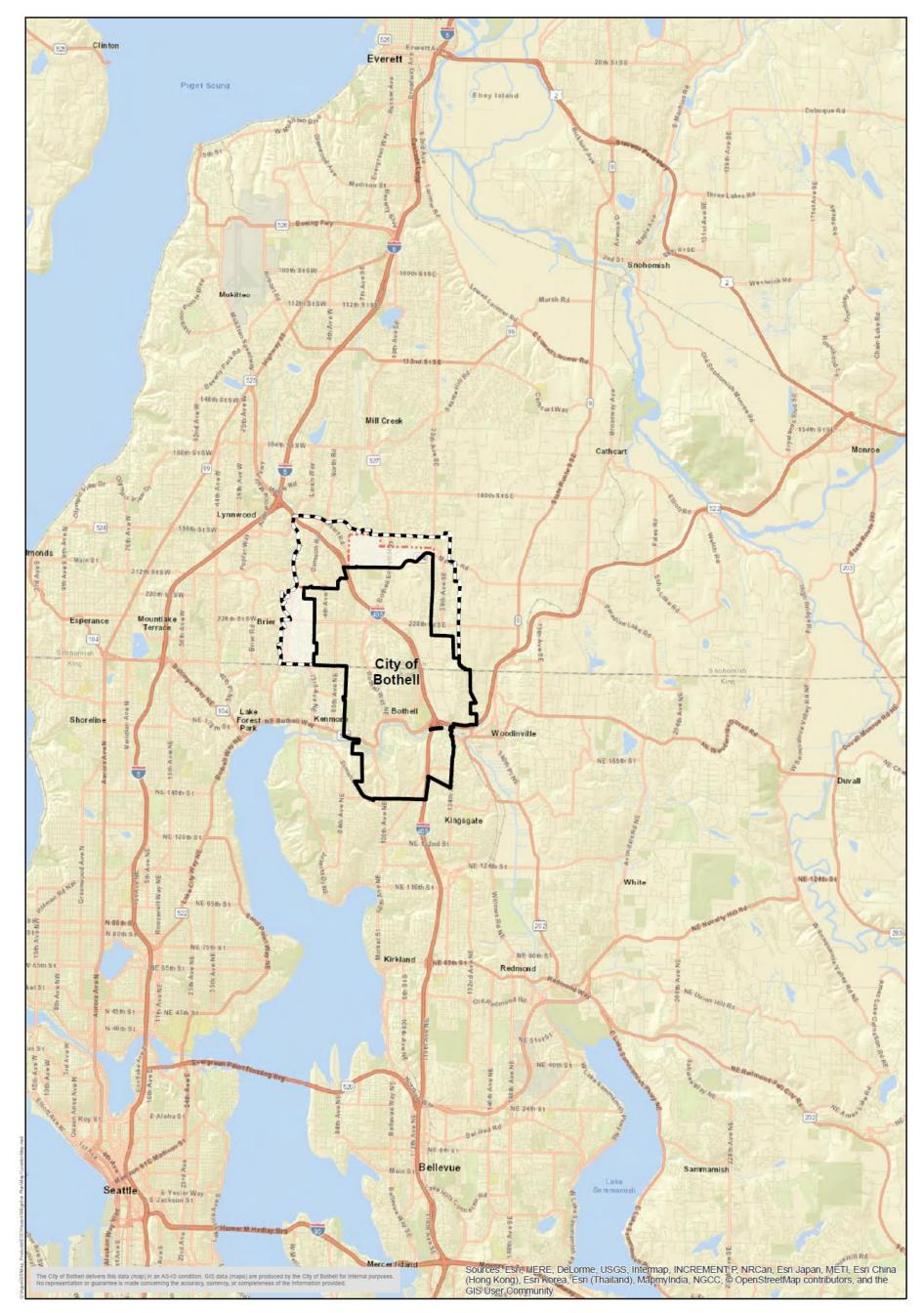
#### **Performance Measures**

• Successfully identify options to reduce hazards from chronic flooding and landslide issues on select roadways that are resilient to climate change and will prevent road closures.

Response Time Lead POC Capital Division	Partner Points of Contact	Hazards Mitigated / Goals Addressed	Funding Sources / Estimated
Manager	Local/State/Federal	• All Hazards	Costs
	<ul><li>funding agencies</li><li>Local/State/Federal permitting agencies</li></ul>	<ul> <li>Goals:         <ul> <li>Community/Public Safety</li> <li>Safe/Efficient Transportation</li> <li>Economic Development</li> </ul> </li> </ul>	<ul> <li>\$ 64,900,000</li> <li>General Fund</li> <li>Capital Funds</li> <li>Grants</li> </ul>
Strategy Vision/Ob	iective		
Complete roadway im	nprovement to alleviate conges	stion thereby allowing for reduced	emergency response
Mitigation Strategy Complete roadway in times.	nprovement to alleviate conges	stion thereby allowing for reduced	emergency response
Complete roadway im times.			
Complete roadway in times. 2-Year Objectives	5-Year Obje	ectives	emergency response
Complete roadway im times.	<b>5-Year Obje</b> • Complet		Long-Term
Complete roadway in times. 2-Year Objectives • Begin design • Explore funding of Implementation Pla	options. <b>5-Year Obje</b> • Complet <b>un/Actions</b>	e design process.	Long-Term Objectives • Construct all improvements and reduce emergency
Complete roadway in times. 2-Year Objectives • Begin design • Explore funding of Implementation Pla • Widen Beardslee • Construct a round	options. <b>5-Year Obje</b> • Complet <b>un/Actions</b> Boulevard from UW-Bothell O dabout at the intersection of N	e design process.	Long-Term Objectives • Construct all improvements and reduce emergency response times.

#### Attachments

## Attachment 1: Regional Street Map



Hazard Mitigation Plan Bothell Regional Street Map

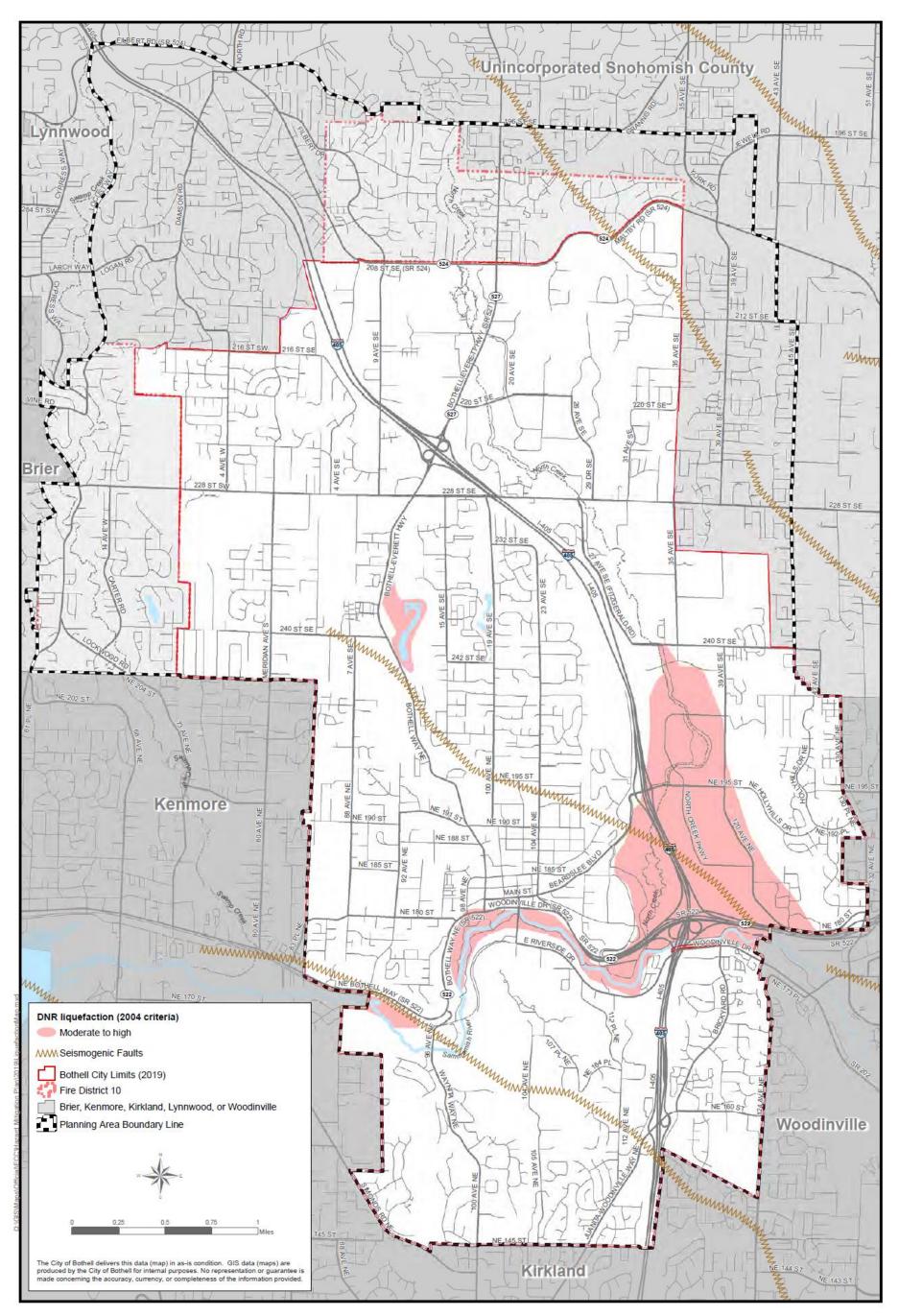
City of Bothell Hazard Mitigation Plan





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## Attachment 2: Liquefaction Map

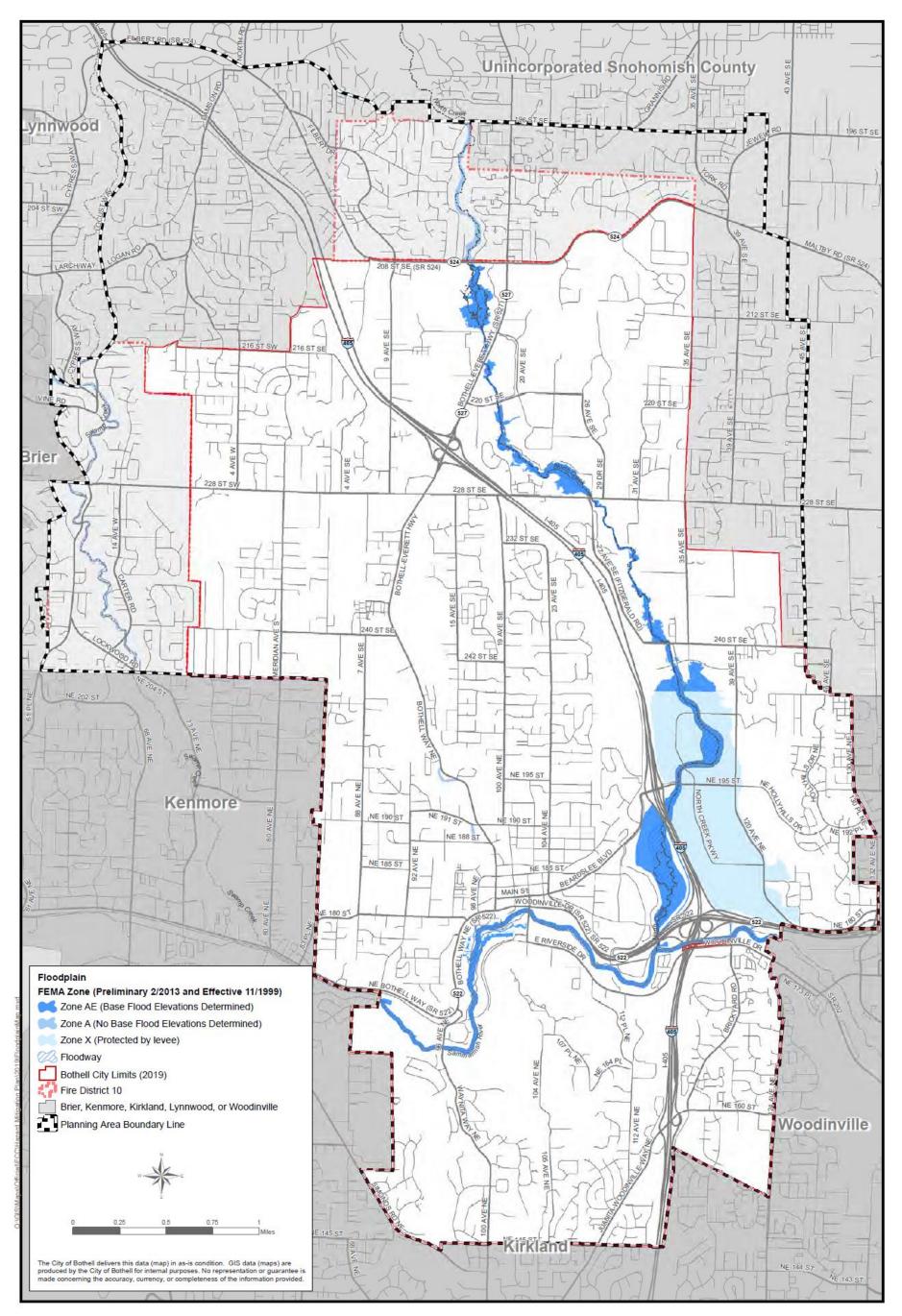


## Hazard Mitigation Plan Seismic Liquefaction



City of Bothell Hazard Mitigation Plan

## Attachment 3: Floodplain Map

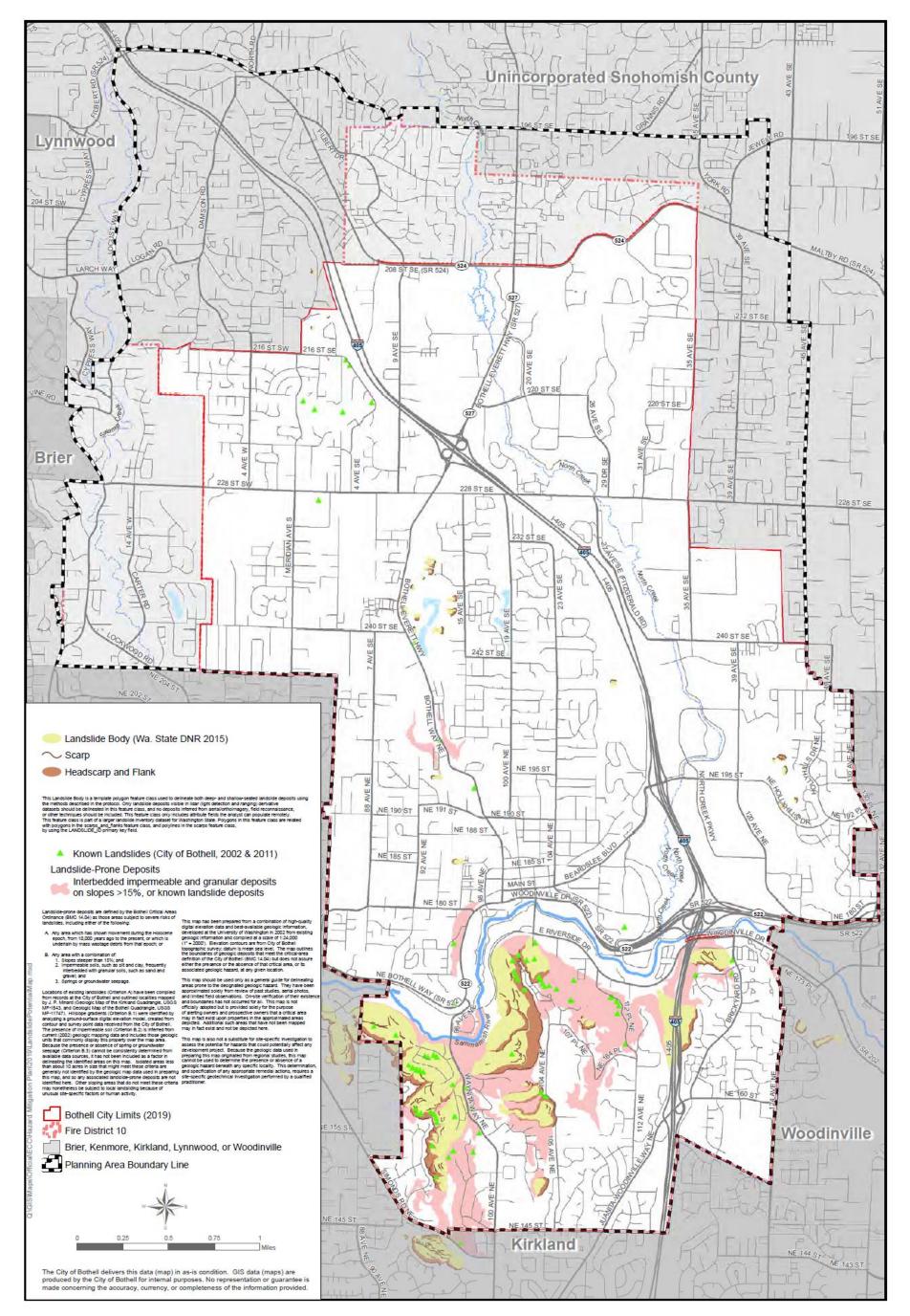


## Hazard Mitigation Plan Floodplain



City of Bothell Hazard Mitigation Plan

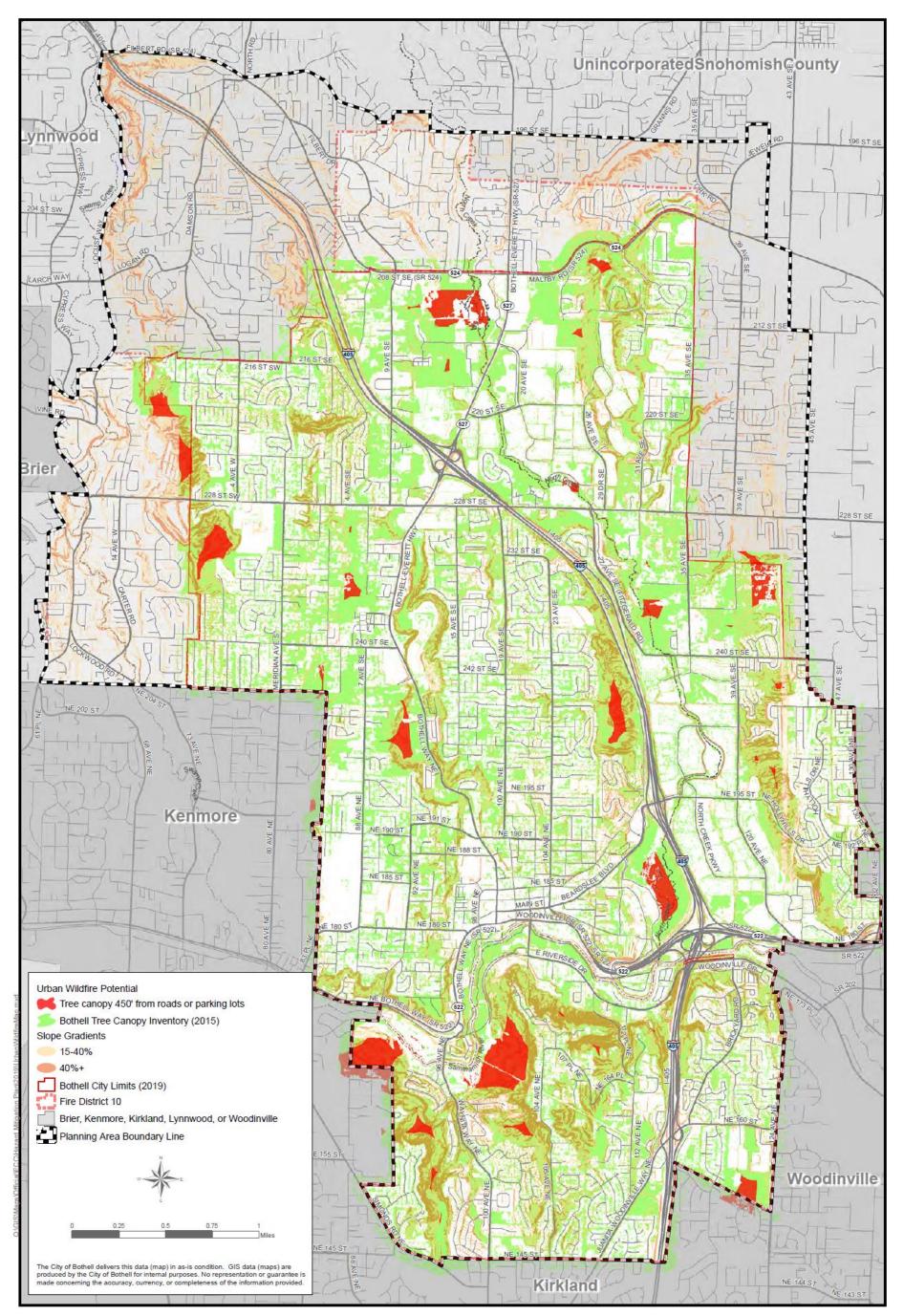




Hazard Mitigation Plan Landslide Potential City of Bothell

City of Bothell Hazard Mitigation Plan

### Attachment 5: Urban Wildfire Map



## Hazard Mitigation Plan Urban Wildfire