



FLOOD & NATURAL HAZARD REDUCTION PUBLIC INFORMATION BULLETIN #30

Fall/Winter 2007

Now is the time to get prepared for the Winter with a home emergency plan and emergency supply kit. There is no means to predict the arrival of a natural disaster and it is the responsibility of every citizen to stay prepared.

Work is in process on updating the Burlington Natural Hazard Mitigation Plan to set the goal for 100-year Levee Certification around the Urban Areas and develop the detailed implementation work program. Release date for the Draft Environmental Impact Statement and updated Natural Hazard Mitigation Plan by the City is linked to the date of release of draft maps. The reason for the focus on getting the levees certified is because the Federal Emergency Management Agency is proposing to release new draft Base Flood Elevation maps in January that will significantly raise the required elevation for new construction or substantial renovations. This date is contingent on successful inclusion of the Samish River study, revisions to floodplain boundaries based on new topography provided by the County, and factoring in the USGS conclusion to officially revise the peak discharge.

Burlington has relied on the Flood Insurance Rate Maps issued in 1985 for all new construction and there is a grave concern that changes are being made without adequate justification. The City must have predictable federal standards that are not changed in order to serve the public fairly.

There may be a significant adverse impact on Burlington from increases in Base Flood Elevations. An appeal will probably be filed because it is the position of Burlington and Mount Vernon that the Federal Emergency Management Agency is using incorrect assumptions about how much water will actually reach Burlington in a 100-year flood. The City of Burlington and Mount Vernon are preparing an independent proposal utilizing newly acquired technical data and will request this independent analysis be considered by the Federal Emergency Management Agency. It is the position of the Federal Emergency Management Agency that the cities proposal will only be considered through a request for a Letter of Map Revision or a formal appeal that provides data that show the proposed base flood elevations to be scientifically or technically incorrect.

The Federal Emergency Management Agency's position on establishing a regulatory floodway in the Skagit River delta area is that the issue is significant and that efforts at least comparable to the actions taken with adoption of the Flood Insurance Rate Maps in the mid-1980's are needed. With this in mind, Burlington would keep Gages Slough as a Special Flood Risk Zone and keep an area of 300 feet behind the levees designated as Special Flood Risk Zone. Burlington will also take action to protect overbank flow paths across farmland around the city through supporting farmland preservation efforts. The existing floodway path for the River is through the Nookachamps and Sterling area, and once the railroad is overtopped, the water moves north to the farmland.

In order to protect the long term public interest, the City is proceeding to amend the Natural Hazard Mitigation Plan to add the goal and implementation strategy of upgrading the levees and adding components as needed to certify the levees for one hundred year flood protection so that the levees will count in the computer modeling for determining the Base Flood Elevations in the Burlington urban area. This is expected to take a number of years to accomplish. Only 100-year Certified Levees qualify for credit in the mapping process.

A critical issue for the community is finetuning the Evacuation Plan. In order to make sure that everyone gets out of town in a timely manner, Citizen Volunteers are critically needed. A short training course is planned as soon as a class of Volunteers is available. **MORE VOLUNTEERS ARE NEEDED!** You will receive certification as a Flagger and learn the basics of how to evacuate Burlington. Additional training to become a member of the CERT (Certified Emergency Response) team will be available for people who are interested. Call the Planning Department at **755-9717** if you want to help.

Property Protection Measures

No time like the present to get started on improving flood protection in your home. Take a few minutes to look over the possible areas where you may need to floodproof important parts of your home. Electrical panel boxes, furnaces, water heaters, and washers/dryers should be elevated or relocated to a location less likely to be flooded. If you heat with propane, pour a slab and anchor the tanks to the ground with straps or bolts or they will become floating bombs. Basement floor drains and interior and exterior backwater valves can be installed, and interior floodwalls can be placed around utilities. If you have a newer (post 1985) home, check to be sure these items have been taken care of when the home was constructed. Identify the potential for moving essential items and furniture to upper floors or the attic of your home. Materials like sandbags, plywood, plastic sheeting, and lumber handy for emergency waterproofing can already be on hand. This action will help minimize the amount of damage caused by floodwaters and requires minimal storage space.

If you would like information on ways to floodproof your home or parts of it, the Building Department and the Library have lots of resource materials.

Flood Insurance

Any property owner in the City of Burlington is eligible to obtain Flood Hazard Insurance, since the city participates in the National Flood Insurance Program. Purchasing or refinancing a home will trigger a requirement for flood insurance by the lender. Coverage in the event of flooding is not included in typical homeowner's insurance policies. Flood insurance is available through your own agency or broker and includes flooding from ponding/drainage problems, snowmelt flooding, runoff on hillsides, or any flooding involving surface water. Contents of the building are a separate addition to the policy. There is limited coverage available for flood-related erosion and mudslide. Replacement cost coverage is available for principal residences. *Concerned about high Flood Insurance Rates?* You may qualify for a substantial reduction if you have an Elevation Certificate that shows your home or business is located at or above the 100 year flood elevation. You will have to retain the services of a Licensed Engineer to complete the paperwork, unless an Elevation Certificate is already on file with the Building Department, so please check here first. Flood insurance rates are higher for buildings with crawl spaces that are two feet or more below the lowest adjacent exterior grade, which is a common construction practice in the northwest.

There is an excellent FEMA publication entitled "Are You Ready? An In-depth Guide to Citizen Preparedness" available. This publication offers disaster information for natural hazards, technological hazards and terrorism. It will guide you for preparation in advance and recovery from a disaster. If you want to order a free copy for your home, call 1-800-480-2520. A copy is available in the Burlington Public Library. **THIS COVERS THE BASIC DISASTER SUPPLIES KIT IN DETAIL.**

Flood Warning System

Each and every citizen has a role to play in the event of a flood. **BE PREPARED!!!** The Burlington Flood Emergency Team prepares and coordinates activities needed to be ready for any flood event with the involvement of all the responsible agencies. A new siren is in the for better coverage; once installed you will definitely hear it being tested on the first Monday of each month at Noon to remind all who hear it that Burlington is never far away from flood season.

The procedure for warning the public is coordinated through the Skagit County Department of Emergency Management. The Emergency Alert System is activated when necessary and includes the following local radio stations:

KBRC 1430 AM § KLKI 1340 AM § KAPS 660 AM
If evacuation is necessary, there will also be door-to-door notification and loudspeakers broadcasting from public safety vehicles in the neighborhood. Flaggers, if available, will be stationed at key intersections along the Evacuation Route to direct traffic. **Sign up now to get certified as a Burlington Evacuation Volunteer – call 755-9717.**

Local Flood Hazard Areas

There are three flood zones in the City Limits of Burlington, the Floodway (river side of the dike), the 100 Year Flood Zone and the Special Flood Risk Zone. Most of Burlington is in the 100 Year Flood Zone.

The Special Flood Risk Zone includes all land within 300 feet of the landward toe of the Dike. All structures must be designed so that floodwaters can pass underneath and there is no occupied space below one foot above the 100 year flood elevation, unless the site is within 100 feet of the Dike where nothing can be built. All property in Gages Slough that is three feet or more below the 100 year flood elevation was designed as Special Flood Risk in the mid 1980's as part of a negotiating process over the uniquely complex Skagit River delta area when the Flood Insurance Rate Maps were finalized. The status of Gages Slough will be revisited when the new base flood elevation maps are unveiled by the Federal Emergency Management Agency.

Interim Controls are in place and the Special Flood Risk Zone has been extended to a line that has been negotiated between Dike District #12 and Dike District #17 (south side) through the three-bridge corridor (Railroad bridge, Old 99 bridge, and Interstate 5 bridge) to accommodate setting the dikes back and raising them as needed to make enough room for the Skagit River to accommodate a 100-year flood event within the banks.

Flood Safety & Disaster Preparedness

Every home needs to be prepared and **STAY PREPARED!** Review your Flood procedure at home with your household and take the time to put your Emergency Preparedness Kit together, or check your flashlight batteries in your existing kit. Remember, a supply of drinking water, emergency food and first aid kit are the bare minimums, along with flashlights. In addition to the basic three day supply of food and water, consider having supplies for sheltering for up to two weeks. Keep a small “grab and go” kit for your place of work with food, water, first aid supplies. For the emergency kit in the car, add flares, jumper cables and seasonal supplies. If a flood is forecast, make the following preparations in the event of a call to evacuate:

- ⇒ Secure your home before leaving; turn off electricity, gas and water if possible
- ⇒ Fill your car’s gas tank; gasoline pumps will not be working if electricity has been cut off.
- ⇒ If there’s time, some items to take with you are:
 - ▶ Prescription drugs
 - ▶ Special Needs, such as food if you require a special diet
 - ▶ Eyeglasses
 - ▶ Clothing - enough for at least 24 hours
 - ▶ Personal items - toiletries, documents, photo albums, etc.
 - ▶ Bedding - sleeping bags, blankets, pillows
 - ▶ Baby or child supplies
 - ▶ Money - cash, credit cards, checks
 - ▶ Proper identification - especially important for small children
 - ▶ Provisions will be made for pets, they will stay in separate housing; bring food for pets if readily available; dogs must be leashed

Earthquakes are an example of a disaster that cannot be predicted and that is not seasonal. Be prepared at all times!

Natural & Beneficial Functions of Floodplains

Filling property to increase elevation in the floodplain is allowed today, but the long term goal is to minimize fill to protect fish and wildlife habitat. Burlington supports habitat improvements in the floodplain, and the Gages Slough restoration projects are a major effort in the city. The Gages Slough habitat management plan has identified locations for restoration and water quality improvement projects, so mitigation projects will be ready to build when the opportunity arises. Storm water quality monitoring in Burlington clearly shows that better water quality treatment systems are needed and this is a major focus of the surface water utility.

Gages Slough property owners who are interested in having the Slough permanently reserved as Open Space now have a new opportunity to donate land without subdividing, and benefit in other areas as well. The procedure is just being put together to implement the new ordinance. Contact the Planning Department if you are interested.

Protecting agricultural lands is part of protecting the Natural and Beneficial Functions of Floodplains. The city is working towards implementing the Burlington Agricultural Heritage Credit program which will raise funds for farmland preservation in exchange for increased residential density in Downtown and the Retail Core. An area of 5,628 acres has been identified as the target area for purchase of development rights.

Key elements of the Skagit Natural Hazard Mitigation Plan include giving the Skagit River more room by setting the dikes back in Burlington and to the mouth of the Skagit River, carefully coordinating and managing the hydroelectric power dams in the river system during a flood event (a goal not yet achieved), permanently moving homes and development rights out of the floodway, improving the environment for wildlife, and creating new public access opportunities to improve everyone’s quality of life.

EMERGENCY PHONE NUMBERS

River Hotline (<i>Recording</i>)	(360) 419-3425
Current river levels and predicted levels -	
Skagit County Public Works	(360) 336-9400
Road closure information	
Skagit County Dept. of Emergency Management	(360) 428-3250
Emergency shelters/special transportation problems/evacuation	

Call 911 only during life-threatening situations.

Map Determination & Library Information

A map determination is figuring out where the 100 year flood elevation is located relative to the first occupied floor of your home or business. This information is used to prepare an Elevation Certificate. A citywide system of elevation benchmarks is maintained in the Building Department. An average of an additional \$200 in savings is possible on your flood insurance policy if you have an elevation certificate, in addition to the 20% rate reduction already available in Burlington, as a result of community participation in the federal Community Rating System program. There are issues with flood insurance providers, and if you feel that you are not getting good information, please contact the city and we will try to help.

Information on other flood improvements, such as elevating your building, filling the crawl space, or floodproofing the lower portion, is available from the City and in the Burlington Public Library. There is a catalogue reference that will direct you to the information you need. Spring is a great time for upgrading your home to meet flood standards, even on a small scale, and the latest techniques are on file in the library.

Every regular Neighborhood Planning meeting, held in the spring and fall, includes a flood and natural hazard mitigation topic. There will also be a series of special meetings this year to discuss the proposed changes in flood maps, as soon as they are available. Call the Planning Department at 755-9717 to get on the mailing list! Take the time to participate because your ideas will be taken seriously and you will have a say in the future of your community.

Substantial Improvement/Damage Requirements

The National Flood Insurance Program requires that if the cost of reconstruction, rehabilitation, addition, or other improvements to a building equals or exceeds 50% of the building's market value, then the building must meet the construction requirements for a new building. Substantially damaged buildings must also be brought up to the same standard. The major issue is elevating the structure one foot above the 100 year flood elevation, along with all mechanical equipment, ductwork and electrical equipment, unless you are located in the Gages Slough Special Flood Risk Zone where "breakaway walls" are required below the 100 year flood elevation.

Drainage System Maintenance

This is the fourth year of water quality studies in Gages Slough and the plans for more wetland restoration projects to improve water quality are being made this year with a new study of opportunities for wetland projects, the Gages Slough habitat management plan. Clean water, efficient flow of water when needed, and a quality environment are the goals. Gages Slough and the Skagit River are important amenities for the community.

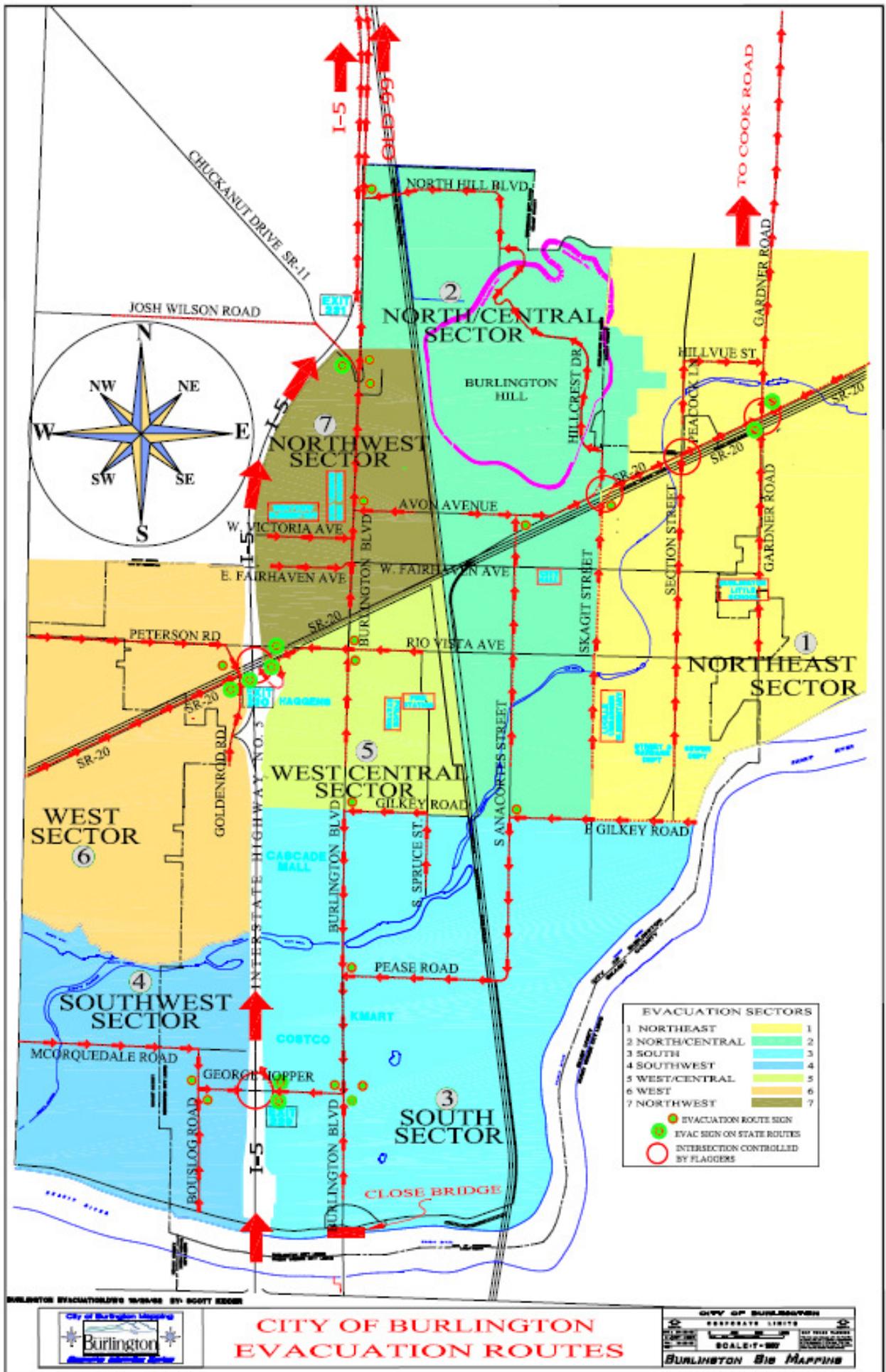
The drainage maintenance and inspection program is part of flood hazard mitigation. Every year, all detention ponds, pipes, catch basins and other drainage control structures are inspected and corrections required as needed to ensure that the capacity of the ponds is maintained and that the ability of the system to clean the storm water is retained, in addition to inspection and maintenance of the city street system. The public drainage system, including culverts, pipes and ditches is well maintained. Gages Slough is maintained at each street intersection and culvert location. A well maintained drainage system that functions in small storms will provide the best assistance possible in large storms and floods, by quickly and efficiently carrying the excess water out of town.

Thank you for respecting the signs that state "No Dumping – thank you" at public access points to Gages Slough! Each property owner along the Slough is responsible for cleaning up any litter or trash that is on their property. The problem of illegal dumping of yard waste in Gages Slough and the problem of trash dumped at points of public access to the River can only be solved if everyone helps out. It is illegal to dump or to fill along Gages Slough or the Skagit River. You may report illegal dumping (this includes yard waste) in the Slough, by calling the Code Enforcement Officer at either 755-9717 or 755-2307, or in writing.

Floodplain Development Permit Requirements

Before you build, add fill, or make changes to your property and structures, be sure to contact the Planning and Building Departments to determine if any permits or approvals are necessary. The Federal Emergency Management Agency and the Insurance Industry make frequent changes in the interpretation of floodplain standards, and you need to be sure you are using the most current information for any construction project.

City of Burlington Planning Dept.
833 S. Spruce Street
Burlington WA 98233
phone: (360) 755-9717
email: bplanning@ci.burlington.wa.us





EVACUATION PLAN

Keep this Map in case of Emergency

The City of Burlington Evacuation Map is on the back of this plan. In case of evacuation, please *follow the arrows on the Evacuation Route Signs*. *Members of the Emergency Response Team MAY BE stationed at each critical corner as Flaggers to provide direction, if available*. There are basically three routes out of Burlington, all leading to the NORTH, and every route on the Plan will lead you to Gardner Road, Old Highway 99, and Interstate 5.

This Evacuation Plan is for ALL HAZARDS. The order of Evacuation may change based on the type of Emergency. A suggestion is to keep this plan and map in your Emergency Preparedness Kit.

Every effort will be made to notify people in dangerous areas door-to-door, but this may not be possible. When an emergency is pending **turn on your radio and listen for instructions** on one of the following local Emergency Alert System or call (360) 428-3250:

KBRC 1430 AM ♦ KLKI 1340 AM ♦ KAPS 660 AM

SECURE YOUR HOME BEFORE LEAVING: turn off electricity, gas and water if possible.

WHERE TO GO: If you do not have a relative or friend to go to, plans have been made for you to stay in a designated shelter. The exact location of shelters will be designated on the Emergency Broadcast Stations or by calling (360) 428-3250.

WHAT TO TAKE WITH YOU: If there is time, take a brief moment to gather a few important items you may need. **DO NOT DELAY, do this quickly and leave as soon as you can.**

1. **CLOTHING** – plan to be away at least 24 hours
2. **PERSONAL ITEMS** – such as toilet articles, documents, photo albums, etc.
3. **PRESCRIPTION DRUGS** – insulin, nitroglycerin, antihistamine, etc.
4. **BEDDING** – sleeping bags, pillows, blankets, etc.
5. **EYEGASSES**
6. **FOOD** – if a special diet is required
7. **BABY OR CHILD SUPPLIES** – food, diapers, toys, etc.
8. **PROPER IDENTIFICATION** – important for small children, adults.
9. **PETS** – provisions will be made for pets, they will stay in separate housing, bring food if readily available, and *dogs must be leashed.*
10. **MONEY, CREDIT CARDS, CHECKS, ETC.**
11. **VEHICLE SUPPLIES** – flashlight, first aid kit.

HOW TO MAINTAIN CONTACT WITH FRIENDS OR RELATIVES AFTER YOU HAVE LEFT: A registration center has been set up at all the shelters. You may go there in person or contact them by telephone (listen to the radio for instructions).