

# Community Response Plan

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## Waitaki Bridge



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## Waitaki Bridge Area Map



# get ready...



## KEY HAZARDS IN

# Waitaki Bridge

Tsunami // Earthquake // Major Storms  
Snowstorms // Wildfire // Flooding



## Tsunami

New Zealand's entire coast is at risk of tsunami. A tsunami can violently flood coastlines, causing devastating property damage, injuries and loss of life.

A tsunami is a natural phenomenon consisting of a series of waves generated when a large volume of water in the sea, or in a lake, is rapidly displaced. A tsunami can be caused by large submarine or coastal earthquakes; underwater landslides which may be triggered by an earthquake or volcanic activity; large coastal cliff or lakeside landslides; or volcanic eruptions beneath or near the sea.



## Earthquake

New Zealand lies on the boundary of the Pacific and Australian tectonic plates. Most earthquakes occur at faults, which are breaks extending deep within the earth, caused by movements of these plates.

There are thousands of earthquakes in NZ every year, but most are not felt because they are either small, or very deep within the earth. Each year there are about 150 - 200 quakes big enough to be felt. A large, damaging earthquake could occur at any time, and can be followed by aftershocks that continue for days or weeks. [www.geonet.org.nz](http://www.geonet.org.nz)



## Major Storms / Snowstorms

Major storms affect wide areas and can be accompanied by strong winds, heavy rain, thunder, lightning, tornadoes and snow. They can cause damage to property, infrastructure, affect crops and livestock and disrupt essential services.

Severe weather warnings are issued by the MetService and available through the broadcast media, by email alerts, and online at [www.metservice.com](http://www.metservice.com)



## Flooding

Floods can cause injury and loss of life, damage to property and infrastructure, loss of stock, and contamination of water and land. Floods are usually caused by continuous heavy rain or thunderstorms. A flood becomes dangerous if:

- the water is very deep or travelling very fast
- the floods have risen very quickly
- the floodwater contains debris, such as trees and sheets of corrugated iron.

Getting ready before a flood strikes will help reduce damage to your home and business and help you survive. [www.orc.govt.nz](http://www.orc.govt.nz)



## Wildfire

Although there are many benefits to living in the country, rural property owners face a higher risk of fire than city dwellers.

If a fire starts it may not be detected as quickly and emergency services take longer to respond because of greater travel distances.

For information on fire danger, fire season status and requirements for fire permits visit [www.orfa.org.nz](http://www.orfa.org.nz)

### FIRE DANGER TODAY





## Emergency Planning

**DO THESE 3 SIMPLE THINGS TO MAKE SURE YOU'RE READY**

### Step 1: Household Emergency Plan

A household emergency plan will help protect what matters most - you, your loved ones and your pets. It includes knowing the best way to leave your home in an emergency, where to meet and how to contact one another if separated.

### Step 2: Emergency Survival Kit

Whether you're just starting out or you're a preparedness pro, gathering your emergency supplies is easy. A good rule of thumb is to have supplies for about 3 days. You'll be surprised at how much you already have.

### Step 3: Stay Connected

In an emergency or disaster situation you'll need to know how to get information and how to connect with people around you in your community. Now is a good time to connect so you'll be ready if a disaster situation occurs.

### STEP 1: CREATE AND PRACTICE

## Household Emergency Plan

#### YOUR HOUSEHOLD

Address <input type="text"/>	
Name <input type="text"/>	Phone numbers <input type="text"/>
Name <input type="text"/>	Phone numbers <input type="text"/>
Name <input type="text"/>	Phone numbers <input type="text"/>
Name <input type="text"/>	Phone numbers <input type="text"/>
Name <input type="text"/>	Phone numbers <input type="text"/>

- If we can't get home or contact each other we will meet or leave a message at:  
 Name   
 Contact details   
 Name (back-up)   
 Contact details   
 Name (out of town)   
 Contact details
- The person responsible for collecting the children from school is:  
 Name   
 Contact details
- Emergency Survival Items and Getaway Kit  
 Person responsible for checking water and food   
 Items will be checked and replenished on:   
(check and replenish at least once a year)
- The radio station (inc AM/FM frequency) we will tune in to for local civil defence information during an emergency
- Friends/neighbours who may need our help or who can help us  
 Name   
 Address   
 Phone   
 Name   
 Address   
 Phone
- On a separate sheet of paper draw a plan of the house showing places to shelter in an earthquake or storm, exits and safe assembly areas and where to turn off water, electricity and gas.

#### IMPORTANT PHONE NUMBERS FOR POLICE, FIRE OR AMBULANCE CALL 111

Local Police station	<input type="text"/>	Water Supplier	<input type="text"/>
Medical Centre	<input type="text"/>	Gas Supplier	<input type="text"/>
Insurance Company	<input type="text"/>	Electrician	<input type="text"/>
Vet/Kennel/Cattery	<input type="text"/>	Plumber	<input type="text"/>
Electricity Supplier	<input type="text"/>	Builder	<input type="text"/>
Council Emergency Helpline	<input type="text"/>		



## STEP 2: CREATE

# Emergency Survival Kit

In most emergencies you should be able to stay in your home. Plan to be able to look after yourself and your household for at least three days or more.

Assemble and maintain your emergency survival items for your home as well as a portable getaway kit in case you have to leave in a hurry. You should

also have essential emergency items in your workplace and in your car.

Thought should be given to keeping a sufficient level of fuel in your vehicle. No less than 1/4 of a tank is often thought of as best practice.

### EMERGENCY SURVIVAL ITEMS



Torch with spare batteries or a self-charging torch



Wind and waterproof clothing, sun hats, strong outdoor shoes



Blankets or sleeping bags



Toilet paper, large rubbish bags for your emergency toilet



Radio with spare batteries



First Aid Kit and essential medicines



Pet Supplies



Face and dust masks

### GETAWAY KIT

Everyone should have a packed getaway kit in an easily accessible place at home and at work which includes:

- Torch and radio with spare batteries
- Any special needs such as hearing aids and spare batteries, glasses or mobility aids
- Emergency water and easy-to-carry food rations such as energy bars and dried foods.
- First aid kit and essential medicines
- Essential items for infants or young children
- such as formula, food, nappies and a favourite toy
- Change of clothes (wind / waterproof clothing and strong outdoor shoes)
- Toiletries – towel, soap, toothbrush, sanitary items, toilet paper
- Blankets or sleeping bags
- Face and dust masks
- Pet supplies

## STEP 3:

# Stay Connected

In a power outage, only analogue phones on a copper wire network will continue to operate (Fibre optic networks will fail).

Cell phone networks can become easily overloaded in a crisis. Texting is a better way to communicate with friends and family.

Use your car to listen to radio broadcasts if you do not have a battery operated radio.

Use your car for charging your cell phone/computer. A 12v charger is required for this. Make it part of your kit or keep in the car. Portable power packs are another device to have in your emergency kit.

In an emergency or disaster situation you'll need to know how to get information and how to connect with people around you in your community. Now is a good time to connect so you'll be ready if a disaster situation occurs.

### Connect with your local Civil Defence:

- Follow Civil Defence on Facebook and Twitter
- Learn what radio stations Civil Defence will

broadcast through in your area in a disaster.

### Connect with your neighbours

- Share contact details with your neighbours so you can contact one another if an emergency occurs
- Tell your neighbours about your emergency plan and ask about their plans
- Find out who amongst your neighbours may be able to help you or may need your help in a disaster
- Contact Neighbourhood Support to find out if a network exists in your neighbourhood

### Connect with your community

- Create a network with at least 3 other people where you all let each other know that a Civil Defence alert is issued
- Join a local online community through sites like Facebook or Twitter. If one doesn't exist for your area, consider creating one
- Check out the community section for more information.

### RELIABLE SOURCES OF INFORMATION

#### Radio

In this area you're most likely to hear alerts and accurate up-to-date information on these stations.

- Radio NZ: 101.4FM and 810AM
- Newstalk ZB: 1395AM
- The Hits: 89.4FM
- More FM: 100FM
- The Breeze 97.6FM

#### Social Media

On both Facebook and Twitter, follow @OtagoCDEM, and you'll get information directly from Emergency Management Otago.

#### Website

Bookmark Emergency Management Otago's website [www.otagocdem.govt.nz](http://www.otagocdem.govt.nz). The website is also a useful place to start if you want to help your family be better prepared.

#### Emergency Alerts

NZ has a new mobile alerting system which will automatically send an alert to mobile phones that are capable of receiving them. You don't need to sign up to receive these.

Provided your phone's operating system enables you to receive them and you are in an area with cellphone coverage, you will get the alert. You can check if your phone will receive these alerts at [www.civildefence.govt.nz](http://www.civildefence.govt.nz).



## Before a Tsunami

Getting ready before a tsunami strikes will help reduce damage to your home and business and help you survive.

- If you live in a coastal area, ask your council about your tsunami risk and local warning arrangements.
- If you have a disability or special requirements, arrange with your support network to alert you of any warnings and emergency broadcasts.
- Develop a Household Emergency Plan and have a Getaway Kit ready.
- Know where the nearest high ground is and how you will reach it. Plan to get as high up or as far inland as you can. Plan your escape route for when you are at home, as well as for when you may be

working or holidaying near the coast.

### KNOW THE NATURAL WARNING SIGNS

If you are at the coast and experience any of the following:

- Feel a strong earthquake that makes it hard to stand up, or a weak rolling earthquake that lasts a minute or more,
- See a sudden rise or fall in sea level,
- Hear loud and unusual noises from the sea,

Move immediately to the nearest high ground, or as far inland as you can.



## During a Tsunami

- Take your getaway kit with you if possible. Do not travel into the areas at risk to get your kit or belongings.
- Take your pets with you if you can do so safely.
- Move immediately to the nearest higher ground, or as far inland as you can. If evacuation maps are present, follow the routes shown.
- Walk or bike if possible and drive only if essential. If driving, keep going once you are well outside the evacuation zone to

allow room for others behind you.

- Boats are usually safer in water deeper than 20 metres than if they are on the shore. Move boats out to sea only if there is time and it is safe to do so.
- Never go to the shore to watch for a tsunami. Stay away from at-risk areas until the official all-clear is given.
- Listen to your local radio stations as emergency management officials will be broadcasting the most appropriate advice for your community and situation.

## After a Tsunami

- Continue to listen to the radio for civil defence advice and do not return to the evacuation zones until authorities have given the all-clear.
- Be aware that there may be more than one wave and it may not be safe for up to 24 hours, or longer. The waves that follow the first one may also be bigger.
- Check yourself for injuries and get first aid if needed. Help others if you can.
- Do not go sightseeing.
- When re-entering homes or buildings, use extreme caution as floodwaters may have damaged buildings. Look for, and report, broken utility lines to appropriate authorities.
- If your property is damaged, take notes and photographs for insurance purposes. If you rent your property, contact your landlord and your contents insurance company as soon as possible.

## A Bit About Tsunamis

A tsunami is a series of waves generated after a large disturbance of the sea caused by earthquakes, volcanic eruptions or underwater landslides. The source of the disturbance may be close to the New Zealand coastline or across the other side of the Pacific Ocean.

A near-source tsunami is generated close to the coastline. The water level will fall rapidly past the low tide mark and then quickly return. If this happens, there won't be enough time to issue a warning.

An earthquake centered on the Puysegur Trench, off the coast of Southland, could trigger a near-source tsunami which may affect coastal communities south of Otago Peninsula.

A distant source tsunami may start as far away as South America, taking much longer to reach New Zealand and affecting more of the coastline. National warnings will be issued by the Ministry of Civil Defence and Emergency Management.

These warnings are sent to the police, Civil Defence,



and emergency management organisations. Warnings are also broadcast to the public on radio and television. Some communities have sirens that may go off when this event happens.

Distant source tsunami may affect coastal communities in Otago. People living near the mouth of rivers such as the Taieri and Clutha could also be affected as a tsunami wave can travel up a river.

Tsunami can threaten lives, property and essential services.



## Tsunami Warnings

Warning messages and signals about a possible tsunami can come from several sources – natural, official or unofficial.

### Natural warnings

For a local source tsunami which could arrive in minutes, there won't be time for an official warning. It is important to recognise the natural warning signs and act quickly.

### Official warnings

Official warnings are only possible for distant and regional source tsunami. Official warnings are disseminated by the Ministry of Civil Defence & Emergency Management to the national media, local authorities and other key response agencies. Your local council may also issue warnings through local media, siren and other local arrangements.

### Unofficial or informal warnings

You may receive warnings from friends, other members of the public, international media and from the internet. Verify the warning only if you can do so quickly. If official warnings are available, trust their message over informal warnings.

***In the event of a Tsunami Warning the Tsunami siren at the Waitaki Kaik Fishing reserve will sound continuously - This siren is for Tsunami warnings only.***



### EVACUATION ZONE GUIDE

**Red:** Evacuate if you feel a long or strong earthquake or after an official warning for a beach and marine threat with wave height of 0.2 metres and above.

**Orange:** Evacuate if you feel a long or strong earthquake or after an official warning for a wave height 1-3 metres

**Yellow:** Evacuate after an official warning for a wave height more than 3 metres.

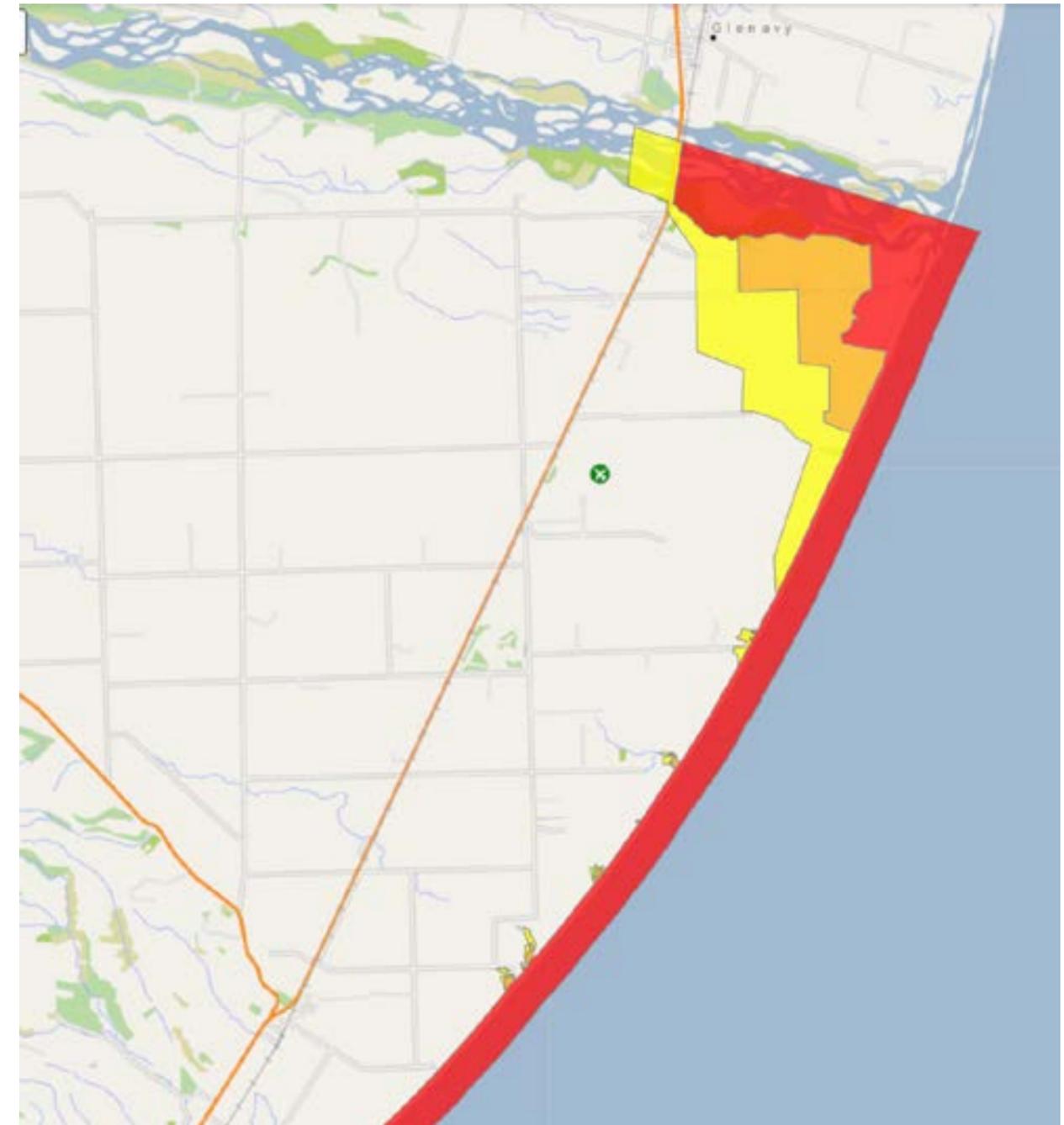
## Types of Tsunamis

There are three distinct types of tsunami. The type you encounter depends on the distance you are from the place where it is generated.

- **Distant tsunami** are generated from a long way away, such as from across the Pacific in Chile. In this case, we will have more than three hours warning time for New Zealand.
- **Regional tsunami** are generated between one and three hours travel time away from their destination. An eruption from an underwater volcano in the Kermadec Trench to the north of New Zealand, could generate a regional tsunami.
- **Local tsunami** are generated very close to New Zealand. This type of tsunami is very dangerous because we may only have a few minutes warning.

## Tsunami Evacuation Zones

For more information about the Tsunami Evacuation Zones in Waitaki Bridge, please visit [www.otagocdem.govt.nz/hazards/tsunamis](http://www.otagocdem.govt.nz/hazards/tsunamis)



# get thru...earthquake



## Before an Earthquake

- Getting ready before an earthquake strikes will help reduce damage to your home and business and help you survive.
- Develop a Household Emergency Plan. Assemble and maintain your Emergency Survival Items for your home and workplace, as well as a portable getaway kit.
- Practice Drop, Cover and Hold.
- Identify safe places within your home, school or workplace.
- Check your household insurance policy for cover and amount.
- Seek qualified advice to make sure your house is secured to its foundations and ensure any renovations comply with the New Zealand Building Code.
- Secure heavy items of furniture to the floor or wall.
- Visit [www.eqc.govt.nz](http://www.eqc.govt.nz) to find out how to quake-safe your home



## During an Earthquake



**IF YOU ARE INSIDE A BUILDING**, move no more than a few steps, drop, cover and hold. Stay indoors till the shaking stops and you are sure it is safe to exit. In most buildings in New Zealand you are safer if you stay where you are until the shaking stops.



**IF YOU ARE IN AN ELEVATOR**, drop, cover and hold. When the shaking stops, try and get out at the nearest floor if you can safely do so.



**IF YOU ARE OUTDOORS** when the shaking starts, move no more than a few steps away from buildings, trees, streetlights, and power lines, then Drop, Cover and Hold.



**IF YOU ARE DRIVING**, pull over to a clear location, stop and stay there with your seatbelt fastened until the shaking stops. Once the shaking stops, proceed with caution and avoid bridges or ramps that might have been damaged.



**IF YOU ARE IN A MOUNTAINOUS AREA** or near unstable slopes or cliffs, be alert for falling debris or landslides.



**IF YOU ARE NEAR A LAKE, BAY OR RIVER MOUTH** consider evacuating to higher ground immediately as a seiche (inland tsunami) may be generated with the potential to rapidly flood or inundate low lying areas to a depth of 4 metres or greater.

## After an Earthquake

- Monitor social media and listen to your local radio stations as emergency management officials will be broadcasting the most appropriate advice for your community and situation.
- Expect to feel aftershocks.
- Check yourself for injuries and get first aid if necessary. Help others if you can.
- Be aware that electricity supply could be cut, and fire alarms and sprinkler systems can go off in buildings during an earthquake even if there is no fire. Check for, and extinguish, small fires.
- If you are in a damaged building, try to get outside and find a safe, open place
- Use the stairs, not the elevators.
- Watch out for fallen power lines or broken gas lines, and stay out of damaged areas.
- Only use the phone for short essential calls to keep the lines clear for emergency calls.
- If you smell gas or hear a blowing or hissing noise, open a window, get everyone out quickly and turn off the gas if you can. If you see sparks, broken wires or evidence of electrical system damage, turn off the electricity at the main fuse box if it is safe to do so.
- Keep your animals under your direct control as they can become disorientated. Take measures to protect your animals from hazards, and to protect other people from your animals.
- If your property is damaged, take notes and photographs for insurance purposes. If you rent your property, contact your landlord and your contents insurance company as soon as possible.

## POST DISASTER Building Management

Following the 2011 Canterbury earthquake, changes were made to how rapid building safety evaluations are carried out after earthquakes or floods. The Ministry of Building, Innovation & Employment (MBIE) has developed a number of documents to reflect these changes.

These documents are available on [www.building.govt.nz/post-disasterbuilding-management](http://www.building.govt.nz/post-disasterbuilding-management) for your information and are designed to be used by trained professionals during a State of Emergency.

### SAMPLE RED "ENTRY PROHIBITED" PLACARD



# get thru...storms/snowstorms



## Before a Storm

- Develop a Household Emergency Plan. Assemble and maintain your Emergency Survival Items for your home as well as a portable getaway kit.
- Prepare your property for high winds. Secure large heavy objects or remove any item which can become a deadly or damaging missile. Get your roof checked regularly to make sure it is secure. List items that may need to be secured or moved indoors when strong winds are forecast. Keep materials at hand for repairing windows, such as tarpaulins, boards and duct tape.
- If you are renovating or building, make sure all work complies with the New Zealand Building Code which has specific standards to minimise storm damage.
- If farming, know which paddocks are safe to move livestock away from floodwaters, landslides and power lines.

## WHEN A WARNING IS ISSUED AND During a Storm

- Stay informed on weather updates. Monitor social media and listen to your local radio stations as civil defence authorities will be broadcasting the most appropriate advice for your community and situation. [www.metservice.com](http://www.metservice.com)
- Put your household emergency plan into action and check your getaway kit in case you have to leave in a hurry.
- Secure, or move indoors, all items that could get blown about and cause harm in strong winds.
- Close windows, external and internal doors. Pull curtains and drapes over unprotected glass areas to prevent injury from shattered or flying glass.
- If the wind becomes destructive, stay away from doors and windows and shelter further inside the house.
- Water supplies can be affected so it is a good idea to store drinking water in containers and fill bathtubs and sinks with water.
- Don't walk around outside and avoid driving unless absolutely necessary.



- Power cuts are possible in severe weather.
- Unplug small appliances which may be affected by electrical power surges. If power is lost unplug major appliances to reduce the power surge and possible damage when power is restored.
- Bring pets inside. Move stock to shelter. If you have to evacuate, take your pets with you.

## After a Storm

- Monitor social media and listen to your local radio stations as emergency management officials will be broadcasting the most appropriate advice for your community and situation.
- Check for injuries and help others if you can, especially people who require special assistance.
- Look for and report broken utility lines to appropriate authorities. **Caution: Treat all lines as live.**
- Contact your local council if your house or building has been severely damaged
- If your property or contents are damaged take notes and photographs and contact your insurance company. Inform your landlord if there is damage to the rental property.
- Ask your council for advice on how to clean up debris safely.

## POST DISASTER Snowstorms

In a snowstorm, the primary concerns are the potential loss of heat, power and telephone service, and a shortage of supplies if storm conditions continue for more than a day. It is important for people living in areas at risk from snowstorms to consider the need for alternative forms of heating and power generation.

- Avoid leaving home unless absolutely necessary when a snow warning is issued.
- If you have to travel make sure you are well prepared with snow chains, sleeping bags, warm clothing and essential emergency items.
- At home, check fuel supplies for woodburners, gas heaters, barbecues and generators.
- Bring pets inside. Move domestic animals and stock to shelter.
- If you are caught in your car or truck in a snowstorm, stay in your vehicle. Run the engine every ten minutes to keep warm. Drink



fluids to avoid dehydration. Open the window a little to avoid carbon monoxide poisoning. Make yourself visible to rescuers by tying a brightcoloured cloth to your radio aerial or door and keeping the inside light on.



## Before a Fire

### To protect your rural property from fire, we recommend:

- Installing smoke alarms and testing them regularly.
- Designing an escape plan and practicing it.
- Keeping the grass green and mown or grazed around your home.
- Creating a safety zone around your home of at least 10m by clearing any dead or dry material and replacing flammable plants and trees with low flammable species.
- Making sure your property is clearly signposted with your RAPID rural property identification number.
- Installing multipurpose dry powder extinguishers in your house and out buildings.
- Keeping a garden hose connected and make sure it is long enough to reach around the house.
- Ensuring your driveway has a minimum clearance of 4m wide and 4m high and adequate turning space for large vehicles.
- Easy access to water supplies and making sure they are signposted.
- Storing firewood and other flammable material away from your house.
- Safe handling and storage of gas or liquid fuels.
- Maintaining machinery and equipment in working order.
- Disposing of ash safely in a metal container and using approved incinerators.

## After a Fire

Nothing can really prepare you for the impact of a fire or other emergency on your family and property. Even a small fire can make you feel helpless and unsure of what to do next. This is entirely understandable. The New Zealand Fire Service regularly sees home owners faced with the same distressing situation.

### Here's some guidance on the important things you need to do now that the unimaginable has happened.

- Do not enter your damaged house unless you have to and have been advised it is safe to do so.
- The Fire Service will check the water, electricity and gas supplies and either arrange to have them disconnected or advise you what action to take.
- If you can't enter your home, you'll need to arrange accommodation. You may need to stay with family, friends or in a motel for at least one night, and longer if the house has been seriously damaged.

### When your house is safe and you are allowed back:

- Try to find your identification, insurance information, medication information, eye glasses, hearing aid, wallet and valuables
- If the house is too badly damaged to live in, board up openings to discourage trespassers
- You may need to arrange security patrols to protect it from burglary
- Keep receipts for expenses resulting from the fire, such as accommodation or clothes
- Get supplies of medicine or eye glasses.

## During a Fire

- Crawl low and fast to escape smoke.
- **'Get Down, Get Low, Get Out.'**
- Shut doors behind you to slow the spread of fire.
- Meet at the planned meeting place.
- Once out, stay out - never go back inside.
- Phone the Fire Service from a safe phone.



### TELL THE FIRE SERVICE

- house number
- street
- nearest intersection
- suburb and city
- rural ID number if you have one

## Fire Seasons

There are three fire seasons you should be aware of:

### OPEN FIRE SEASON

- A fire permit is not required to light a fire in the open air as long as certain conditions are met.

### RESTRICTED FIRE SEASON

- In this season a fire permit from your local Rural Fire Authority is required before you can light a fire in the open air.

### PROHIBITED FIRE SEASON

- Means a total fire ban is in place. Lighting fires in the open air is not permitted.
- For the current fire season and to apply for fire permits contact your local Rural Fire Authority or visit

## HAVE YOU CONSIDERED INSTALLING SPRINKLERS?

Home sprinklers will protect your family, home and contents from the threat of fire - 24 hours a day.

Sprinkler technology has come a long way, the cost of including home sprinklers into a new build or as part of major renovations could be cheaper than you think.

Home sprinklers use the same domestic plumbing as kitchen taps and can be installed by a qualified plumber in less than two days.

More importantly sprinklers provide the fastest possible means of extinguishing fires in rural homes.

For more information visit [www.fire.org.nz](http://www.fire.org.nz)





## Before a Flood

- Find out from your local council if your home or business is at risk from flooding. Ask about evacuation plans and local public alerting systems; how you can reduce the risk of future flooding to your home or business; and what to do with your pets and livestock if you have to evacuate.
- Know where the closest high ground is and how to get there.
- Develop a Household Emergency Plan. Assemble and maintain your Emergency Survival Items for your home as well as a portable getaway kit. See page 5 for details.
- Check your insurance policy to ensure you have sufficient cover

## IF A FLOOD IS IMMINENT AND During a Flood

- Monitor social media and listen to your local radio stations as emergency management officials will be broadcasting the most appropriate advice for your community and situation.
- If you have a disability or need support, make contact with your support network.
- Put your household emergency plan into action and check your getaway kit. Be prepared to evacuate quickly if it becomes necessary.
- Where possible, move pets inside or to a safe place, and move stock to higher ground.
- Consider using sandbags to keep water away from your home.
- Lift valuable household items and chemicals as high above the floor as possible.
- Fill bathtubs, sinks and storage containers with clean water in case water becomes



contaminated.

- Turn off utilities if told to do so by authorities as it can help prevent damage to your home or community. Unplug small appliances to avoid damage from power surges.
- Do not attempt to drive or walk through floodwaters unless it is absolutely essential.

## After a Flood

- It may not be safe to return home even when the floodwaters have receded. Continue to monitor social media and listen to your local radio station for civil defence instructions.
- Help others if you can, especially people who may require special assistance.
- Throw away food including canned foods and water that has been contaminated by floodwater.
- Avoid drinking or preparing food with tap water until you are certain it is not contaminated. If in doubt, check with your local council or public health authority.
- Look for and report broken utility lines to appropriate authorities.
- If your property is damaged, take notes and photographs for insurance purposes. If you rent your property, contact your landlord and your contents insurance company as soon as possible.

## A Bit About Floods

Floods are the most common Civil Defence emergency in Otago. Our communities often experience flooding at any time of year, from rivers, streams, and we can get significant surface flooding after intense localised rain. During major coastal storms, the sea can cause flooding of low-lying areas all along our coast.

The Waitaki River and associated hydro schemes pose further risks for flooding, through weather events or dam failure. Meridian Energy, Environment Canterbury (ECAN) and Emergency Management Otago work together to monitor and manage any potential risk to the community.

The Otago Regional Council and Environment Canterbury has a monitoring network that tracks rainfall and river flows from storms. The ORC flood management team also works closely with forecasters to predict and model the impact of rainfall. They send warnings to affected communities, the media, and local Councils to help those at risk. However as many waterways can flood in just an hour there may not always be time to issue a warning.

Flooding threatens lives, home and personal property. Transport routes may be closed for extended times due to damage from floodwaters.

### Weather

Check out what the weather is doing in your part

of the region by keeping up to date with the latest information from MetService. MetService will also show you if there are any weather warnings coming our way. [www.metservice.com/national/home](http://www.metservice.com/national/home)

### Rain and River

For up-to-date rainfall and river flow data check out the ECAN info website: [www.ecan.govt.nz](http://www.ecan.govt.nz)

Land Air Water Aotearoa provides up-to-the-hour river and rainfall data for the whole of NZ: [www.lawa.org.nz](http://www.lawa.org.nz)

### Roads

Keep up to date on the latest road information and road closures in your area: [www.nzta.govt.nz/traffic-and-travel-information](http://www.nzta.govt.nz/traffic-and-travel-information)

'On the Move' is a fully customisable travel information service that provides information to travellers prior to their journey and about road and driving conditions, incidents and road works taking place on New Zealand's state highways: [www.nzta.govt.nz/traffic-and-travel-information/on-the-move](http://www.nzta.govt.nz/traffic-and-travel-information/on-the-move)

For information regarding the Waitaki River, or for river warnings, details can be found from ECAN and Emergency Management Otago web sites: [www.ecan.govt.nz](http://www.ecan.govt.nz) | [www.otagocdem.govt.nz](http://www.otagocdem.govt.nz)

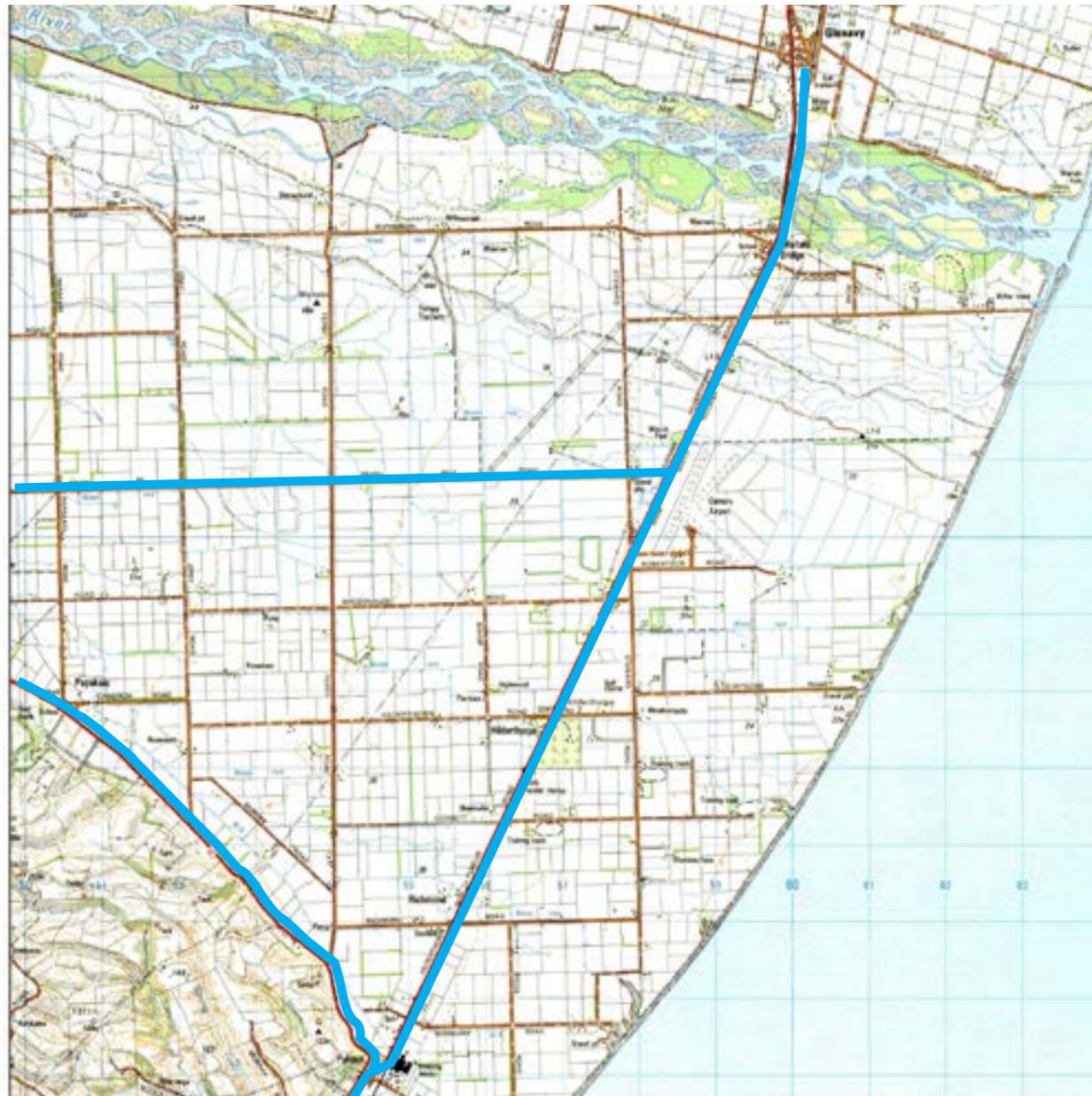
Further weather information can be found from the MetService: [www.metservice.com/national/home](http://www.metservice.com/national/home)



## Waitaki Bridge

# Flood Map

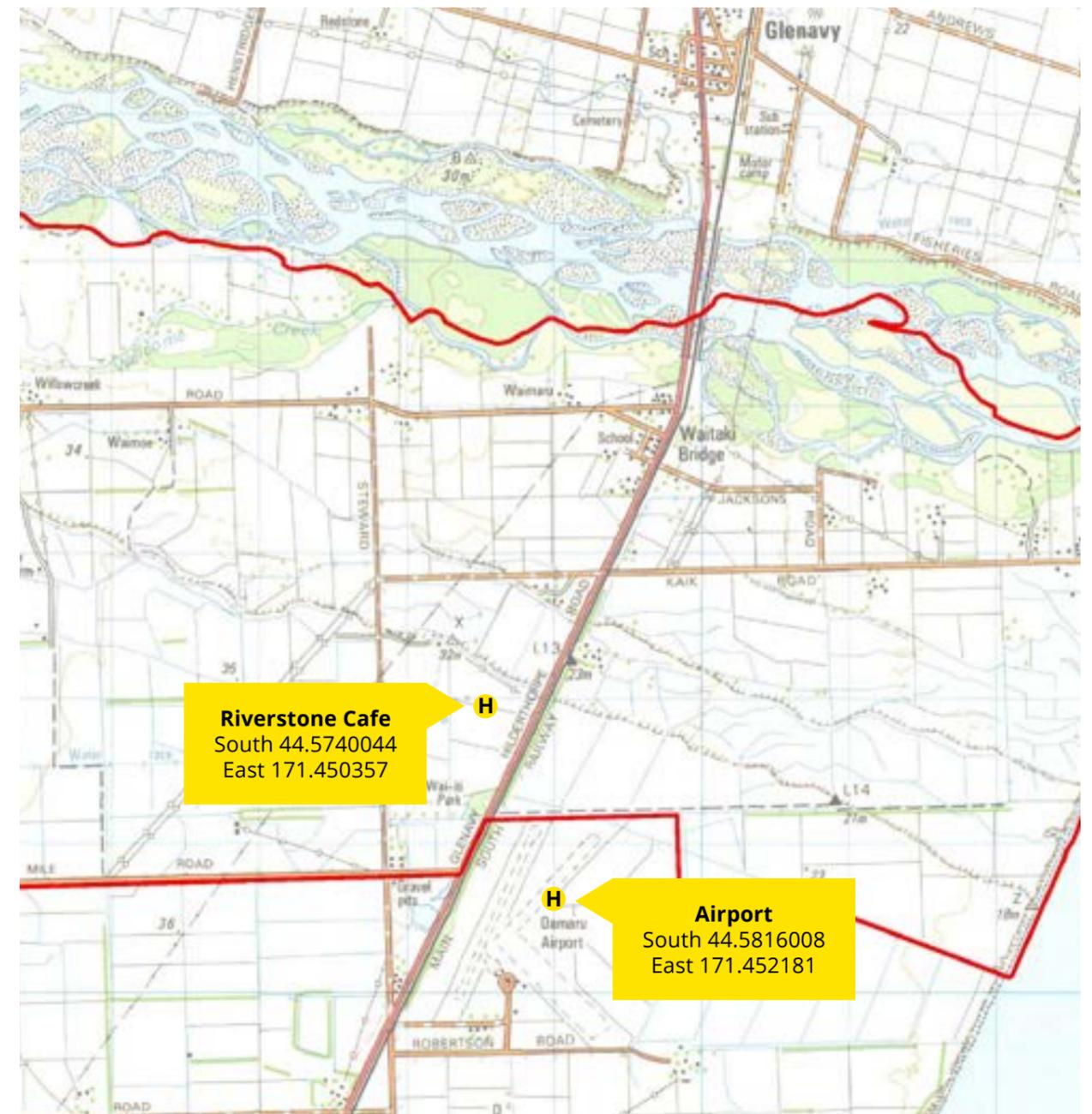
Note: During significant flood events various sections of S.H.1 are subject to flooding. The alternate routes - mainly Seven Mile Road and SH83 - are also subject to flooding. Please refrain from any unnecessary travel, drive to the conditions and check with NZTA for Highways and the Waitaki District council for status of roads prior to travel.



## Waitaki Bridge

# Tactical Sites Map

**H** Helicopter Landing Sites



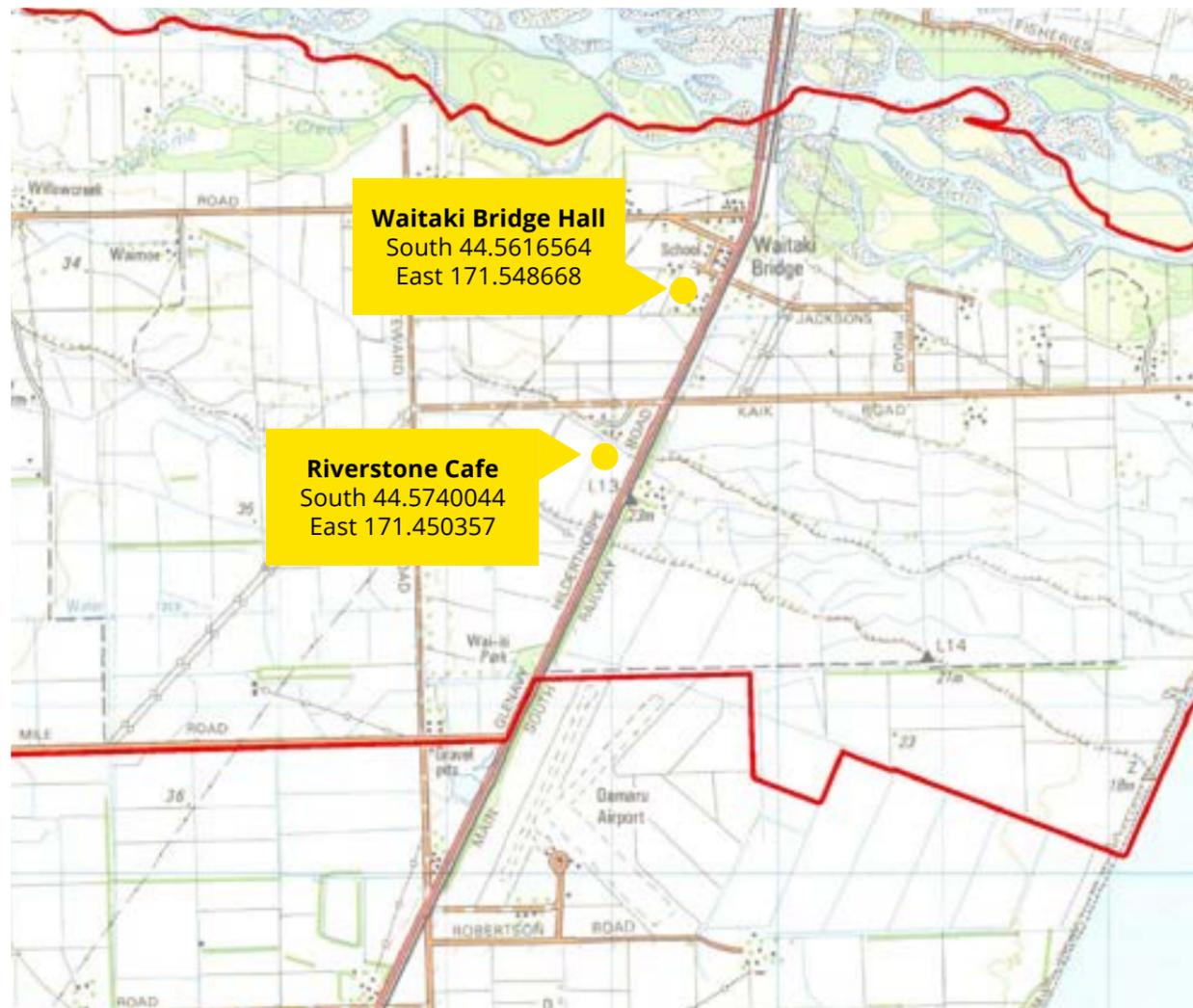


Waitaki Bridge

## Civil Defence Centres | Visitor, Tourist & Foreign Nationals Welfare Map

### CIVIL DEFENCE CENTRES

During any Civil Defence event - Civil Defence centres may be set up in the following locations.



## Roles and Responsibilities

The role and responsibilities of the emergency services is clearly defined by legislation. In the event of this plan being activated due to an emergency event occurring, the roles and responsibilities of community groups are set out as below:

	<ul style="list-style-type: none"> <li>• Liaise with police, communities and emergency services to initiate and assist in a response to a civil emergency, disseminate warnings and identify and make arrangements for civil defence centres if required.</li> </ul>
	<ul style="list-style-type: none"> <li>• Maintain law and order</li> <li>• Protect life and property</li> <li>• Assisting the coroner</li> <li>• Search and rescue</li> </ul>
	<ul style="list-style-type: none"> <li>• Provision of emergency medical care</li> </ul>
	<ul style="list-style-type: none"> <li>• Fire-fighting responsibilities</li> <li>• Containment of releases and spillages of hazardous substances</li> <li>• Urban search and rescue</li> <li>• Limitation of damage</li> <li>• Redistribution of water for specific needs</li> <li>• Fire response in rural fire districts</li> <li>• Issuing of fire permits to landowners</li> <li>• Reducing fire risk in rural areas</li> </ul>



# For Further Information:

## LOCAL COUNCIL

### Waitaki District Council

03 433 0300

[www.waitaki.govt.nz](http://www.waitaki.govt.nz)

### Otago Regional Council

0800 472 082

[www.orc.govt.nz](http://www.orc.govt.nz)

## CIVIL DEFENCE SITES

### Otago Civil Defence

[www.otagocdem.govt.nz](http://www.otagocdem.govt.nz)

### Ministry of Civil Defence

[www.civildefence.govt.nz](http://www.civildefence.govt.nz)

### Be prepared

[www.whatstheplanstan.govt.nz](http://www.whatstheplanstan.govt.nz)

[www.getthru.govt.nz](http://www.getthru.govt.nz)

## EMERGENCY SERVICES

### New Zealand Police

[www.police.govt.nz](http://www.police.govt.nz)

### Fire & Emergency New Zealand

[www.fireandemergency.nz](http://www.fireandemergency.nz)

### St John Ambulance

[www.stjohn.org.nz](http://www.stjohn.org.nz)

