## Are you prepared for an Earthquake?

One of the most frightening and destructive phenomena of nature is a severe earthquake and its terrible aftereffects. An earthquake is the sudden, rapid shaking of the earth, caused by the breaking and shifting of subterranean rock as it releases strain that has accumulated over a long time.

For hundreds of millions of years, the forces of plate tectonics have shaped the earth, as the huge plates that form the earth's surface slowly move over, under and past each other. Sometimes, the movement is gradual. At other times, the plates are locked together, unable to release accumulated energy. When the accumulated energy grows strong enough, the plates break free. If the earthquake occurs in a populated area, it may cause many deaths and injuries and extensive property damage.

Jamaica is at some risk for earthquakes. Earthquakes can happen at any time of the year. earthquake illustrated the fact that it is impossible to predict when or where an earthquake will occur, so it is important that you and your family are prepared ahead of time. Before an Earthquake The following are things you can do to protect yourself, your family and your property in the event of an earthquake. To begin preparing, you should build an and make a family communications plan. Fasten shelves securely to walls. Place large or heavy objects on lower shelves. Store breakable items such as bottled foods, glass, and china in low, closed cabinets with latches. Mirrors, picture frames, and other hanging items should be secured to the wall with closed hooks or not hang heavy objects over beds, sofas, or any place you may be seated. Objects such as earthquake putty. Do framed photos, books, lamps, and other items that you keep on shelves and tables can become flying hazards. Secure them with hooks, adhesives, or earthquake putty to keep them in place. Bookcases, filing cabinets, china tall furniture should be anchored to wall studs (not drywall) or masonry. Use flexible straps that allow them to sway without falling to the floor. Electronics such as computers, televisions and microwave ovens are heavy and expensive to replace. Secure them with flexible nylon straps. Brace overhead light fixtures and top heavy connections. These are potential fire risks. Get appropriate objects.Repair defective electrical wiring and leaky gas help. Do not work with gas or electrical lines yourself. Install flexible pipe fittings to avoid gas or water leaks. Flexible fittings are more resistant to breakage. Secure your water heater, refrigerator, furnace and appliances by strapping them to the wall studs and bolting to the floor. If recommended by your gas company, have an automatic gas shut-off valve installed that is triggered by strong vibrations. Repair any deep cracks in ceilings or Get expert advice if there are signs of structural defects. Get professional help to assess the foundations. building's structure and then take steps to install nonstructural solutions, including cripple walls, reinforcing chimneys, or installing an earthquake-resistant bracing system for a mobile home. Examples of structures that may be more vulnerable in an earthquake are those not anchored to their foundations or having weak crawl space walls, unbraced pier-and-post foundations, or unreinforced masonry walls or foundations. Visit www.fema.gov/earthquake-safety-home for guidance on nonstructural ways to reduce damage and earthquake design or retrofit. Store weed killers, pesticides, and flammable resistant structural products securely in closed cabinets with latches and on bottom shelves. Locate safe spots in each room under a sturdy table or against an inside wall. Reinforce this information by moving to these places during each drill. Hold earthquake drills with your family members: Drop, cover and hold on.

## During an Earthquake

Drop, cover and Hold On. Minimize your movements to a few steps to a nearby safe place and if you are indoors, stay there until the shaking has stopped and you are sure exiting is safe.

If Indoors DROP to your hands and knees.

COVER your head and neck with your arms. This position protects you from falling and provides some protection for vital organs. Because moving can put you in danger from the debris in your path, only move if you need to get away from the danger of falling objects. If you can move safely, crawl for additional cover under a sturdy desk or table. If there is low furniture, or an interior wall or corner nearby and the path is clear, these may also provide some additional cover. Stay away from glass, windows, outside doors and walls, and anything that could fall, such as lighting fixtures or furniture.

HOLD ON to any sturdy shelter until the shaking stops. Stay away from glass, windows, outside doors and walls, and anything that could fall, such as lighting fixtures or furniture. If you are in bed: STAY there and COVER your head and neck with a pillow. At night, hazards and debris are difficult to see and avoid; attempts to move in the dark result in more injuries than remaining in bed. DO NOT get in a doorway as this does not provide protection from falling or flying objects and you likely will not be able to remain standing. Stay inside until the shaking stops and it is safe to go outside. Do not exit a building during the shaking. Research has shown that most injuries occur when people inside buildings attempt to move to a different location inside the building or try to leave. DO NOT use the elevators. Be aware that the electricity may go out or the sprinkler systems or fire alarms may turn on.

If Outdoors If you can, move away from buildings, streetlights, and utility wires. Once in the open, Drop, Cover, and Hold On. STAY THERE until the shaking stops. This might not be possible in a city, so you may need to duck inside a building to avoid falling debris.

If in a Moving Vehicle Stop as quickly as safety permits and stay in the vehicle. Avoid stopping near or under buildings, trees, overpasses, and utility wires. Proceed cautiously once the earthquake has stopped. Avoid roads, bridges, or ramps that might have been damaged by the earthquake.

## After an Earthquake

If Trapped Under Debris Do not light a match.Do not move about or kick up dust.Cover your mouth with a handkerchief or clothing.Tap on a pipe or wall so rescuers can locate you. Use a whistle if one is available. Shout only as a last resort. Shouting can cause you to inhale dangerous amounts of dust.

When the Shaking Stops When the shaking stops, look around to make sure it is safe to move and there is a safe way out through the debris. Then exit the building. Expect aftershocks. These secondary shockwaves are less violent than the main quake but can be strong enough to do additional damage to weakened structures and can occur in the first hours. days, weeks, or even months after the guake. Drop, Cover, and Hold On whenever you feel shaking. Check for injuries and provide assistance if you have training. Assist with rescues if you can do this safely.Look for and extinguish small fires. Fire is the most common hazard after an earthquake. Never use a lighter or matches near damaged areas.Listen to a battery-operated radio or television for the latest emergency information. If you are near the coast, learn the tsunami risk for your area. If you are in an area that may experience shaking stops, walk inland or to higher ground immediately. Monitor tsunamis, when the official reports for more information on the area's tsunami evacuation plans. Use the telephone only for emergency calls. Go to a been damaged and is no longer safe. Stay away from damaged areas. designated public shelter if your home had Stay away unless your assistance has been specifically requested by police, fire, or relief organizations. Return home only when authorities say it is safe. Be careful when driving after an earthquake and anticipate traffic light outages. After it is determined that its' safe to return, your safety should be your primary priority as you begin clean up and recovery. Open cabinets cautiously. Beware of objects that can fall off shelves. Find out how to keep food emergency by visiting: http://www.foodsafety.gov/keep/emergency/index.html safe during and after and long pants, a long-sleeved shirt, sturdy shoes and work gloves to protect against injury from broken objects. Clean up other flammable liquids immediately. Leave the area if you smell gas or spilled medicines, bleaches, gasoline or fumes from other chemicals. Inspect utilities. Check for gas leaks. If you smell gas or hear blowing or hissing noise, open a window and quickly leave the building. Turn off the gas at the outside main valve if you can gas company from a neighbor's home. If you turn off the gas for any reason, it must be turned back on by a professional.Look for electrical system damage. If you see sparks or broken or frayed wires, or if you smell hot insulation, turn off the electricity at the main fuse box or circuit breaker. If you have to step in water to get to the fuse breaker, call an electrician first for advice. Check for sewage and water lines damage. If you suspect box or circuit toilets and call a plumber. If water pipes are damaged, contact the water sewage lines are damaged, avoid using the company and avoid using water from the tap. You can obtain safe water by melting ice cubes.