

### WHAT IT IS

Dam failures or levee breaches can occur with little warning, sometimes within hours – or less – of the first signs of structural concerns. Dams can fail for one or a combination of the following reasons:

- Overtopping caused by floods that exceed the capacity of the dam
- Structural failure of materials used in construction
- Movement and/or failure of the foundation
- Settlement and cracking of concrete or embankment
- Piping and internal erosion of soil in embankment dams
- Inadequate maintenance and upkeep
- Deliberate acts of sabotage

## WHAT TO DO

# Before (Preparedness/ Mitigation)

- □ Sign up for Fairfax Alerts and have a battery or crank powered radio available.
- Decide early whether you will evacuate, and where you will go if ordered to leave.
- □ Disconnect electrical appliances.
- ☐ Know if your residence or business is in a floodplain or an "excluded area" that is protected by a dam or levee but would otherwise be within the Special Flood Hazard Area.
- ☐ Apply for flood insurance, even if you may be in an "excluded area" or otherwise not be required to do so.
- Learn First Aid.
- Refer to "Power Outage/ Blackout" and "Medical Emergency," below.

# **During** (Response)

- ☐ If you encounter rising water, move to higher ground immediately.
- ☐ Always stay clear from floodwaters.
- Do not drive through flooded roads "turn around, don't drown."

## **KEY TERMS**

- A **Flood Watch** means there is a possibility of flooding or a flash flood in your area.
- A Flash Flood Watch means flash flooding is possible. Be prepared to move to higher ground. A flash flood can occur without any warning.
- ▶ A **Flood Warning** means a flood is occurring or will likely occur soon. If you are advised to evacuate do so immediately.
- ▶ A **Flash Flood Warning** means a flash flood is occurring. Seek higher ground immediately; do not wait for instructions.
- ► An **Excluded Area (Zone X)** on a FEMA flood map is an area that is protected by a dam or levee that would otherwise be in the Special Flood Hazard Area, or "100-year floodplain"; properties in excluded zones are not required to carry flood insurance to get a mortgage, but owners should strongly consider it regardless.
- An **Emergency Action Plan** (EAP) is a formal document that identifies potential emergency conditions at a dam and specifies actions to be followed to minimize loss of life and property damage.
  - ☐ Stay away from downed power lines to avoid the risk of shock or electrocution.
  - Do not touch electrical equipment if you are wet or standing in water.

# After (Recovery)

- Return home when local officials say it is safe.
- Avoid walking or driving through floodwaters.
- □ Do not eat any food that may have come into contact with flood water. If in doubt, throw it out.
- ☐ Remove all porous items that have been wet for more than 48 hours and that cannot be thoroughly cleaned and dried. These items can remain a source of mold growth and should be removed from the home.
- □ Check in with family and friends by texting or using social media.



