Abbotsford Mission Water and Sewer Commission (AMWSC)

Water Supply Resiliency

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Population Served –
Abbotsford: 142,000
Mission: 33,500

AMWSC Water Supply System

- Norrish WT Plant
  - Sand filters
  - Membrane filters
  - 144MLD
- Cannell WT Plant
  - UV Disinfection
  - Filtration exemption
  - 69MLD
- 14 Wells
  - On-site hypo generation
  - 55MLD

POTENTIAL HAZARDS

- Water Quality
- Pandemic
- Climate Change
- Coastal and Creek Flood
- Drought
- Forest Fire
- Volcanic Eruption
- Earthquake
- Landslide
- Dam Failure

AMWSC Emergency Preparation

Emergency Response Manual

Establishment of Emergency Operations Centre (EOC)

External Agencies

- **Public Health Officer**
- **Emergency Services (Fire, Police, EMT)**
- **Emergency Management BC**

Water Quality

Now

- pH/alkalinity study
- Lake water monitoring

Future

- Membrane renewal
- Well replacement

Pandemic

Now

- Pandemic (Covid 19) Response Plan

Future

- Review and refinement

Climate Change
Flood
Drought

Now

- Staged Watering Bans
- Dike system (Fraser River)

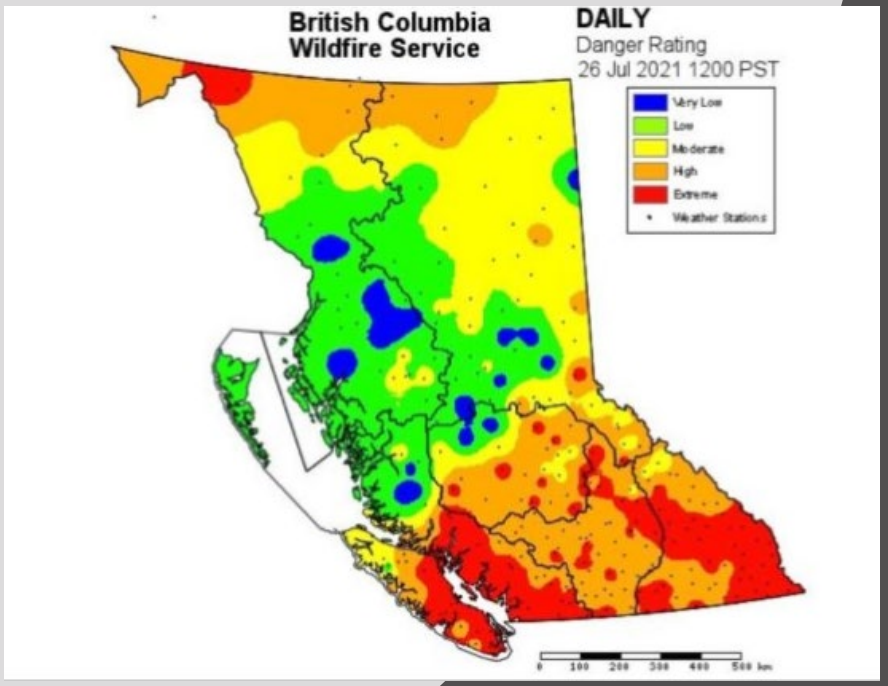
Future

- Supply source expansion (50MLD)
- Extreme Weather Response Plan (Drought/Heat)
- Norrish Creek Intake

Forest Fires Volcano

Now

- Emergency Response Plan



Future

- Supply redundancy (expansion project)
- Watershed access during extended drought/heat

Earthquake Landslide Dam Failure

Now

- New construction to meet post-disaster code
- Annual watershed monitoring (helicopter inspection)

Future

- Seismic improvements to dams
- Seismic review of existing facilities and improvements
- Deactivated FSR stability study in watershed

Weaknesses & Opportunities

- Dedicated Provincial and Federal funding for large scale capital upgrades
- “Living Documents”: Emergency Response & Recovery Plans
- Explore Mutual Aid Agreements