

NSEM

CURRENT & PLANNED INITIATIVES

Overview of North Shore
Emergency Management and
Emergency Preparedness

2016 . 05 . 02

NORTH SHORE EMERGENCY MANAGEMENT

NSEM

NORTH SHORE
EMERGENCY
MANAGEMENT

Disaster
Exercise
in
progress

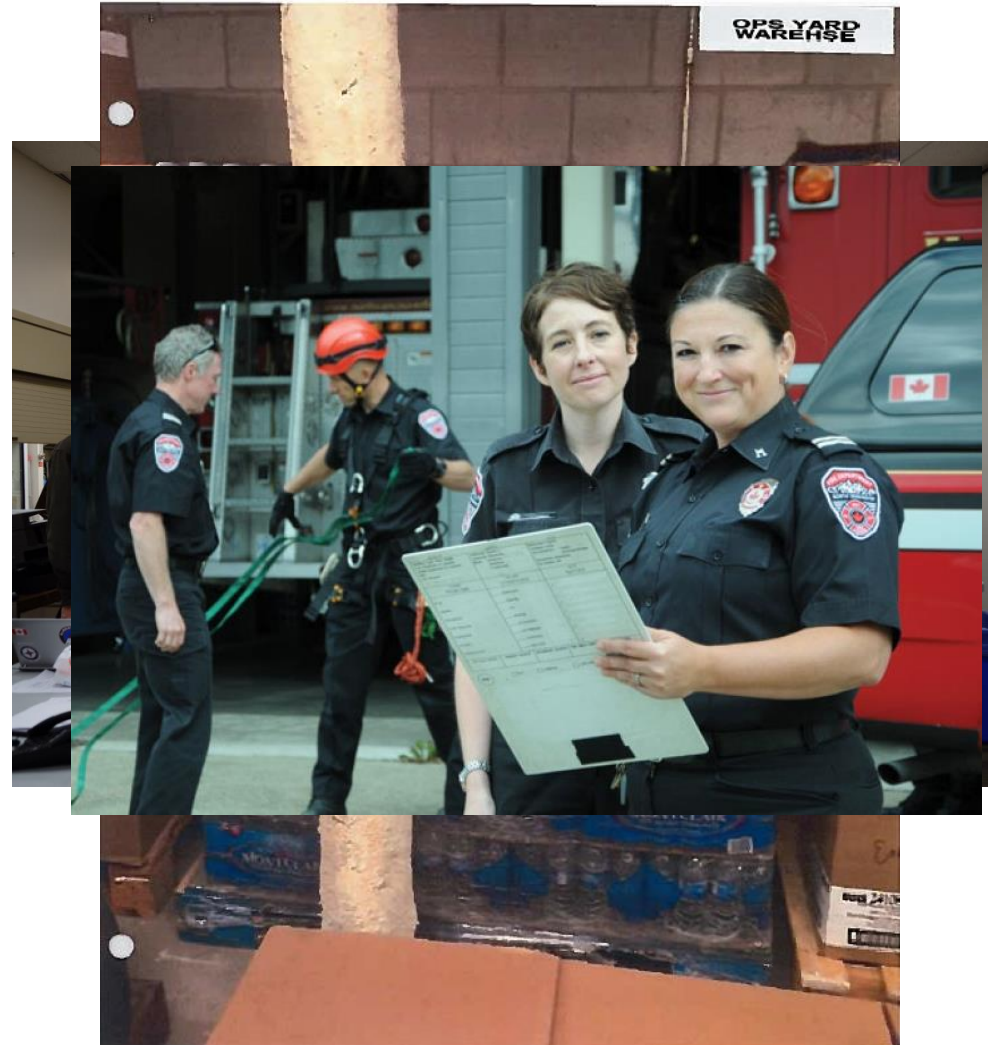
city
of north
vancouver



WEST VANCOUVER

NSEM Update

- Mike's still acting
- Deployment
- Preparedness with Fire Departments
- Staff Preparedness



NS^{EM}

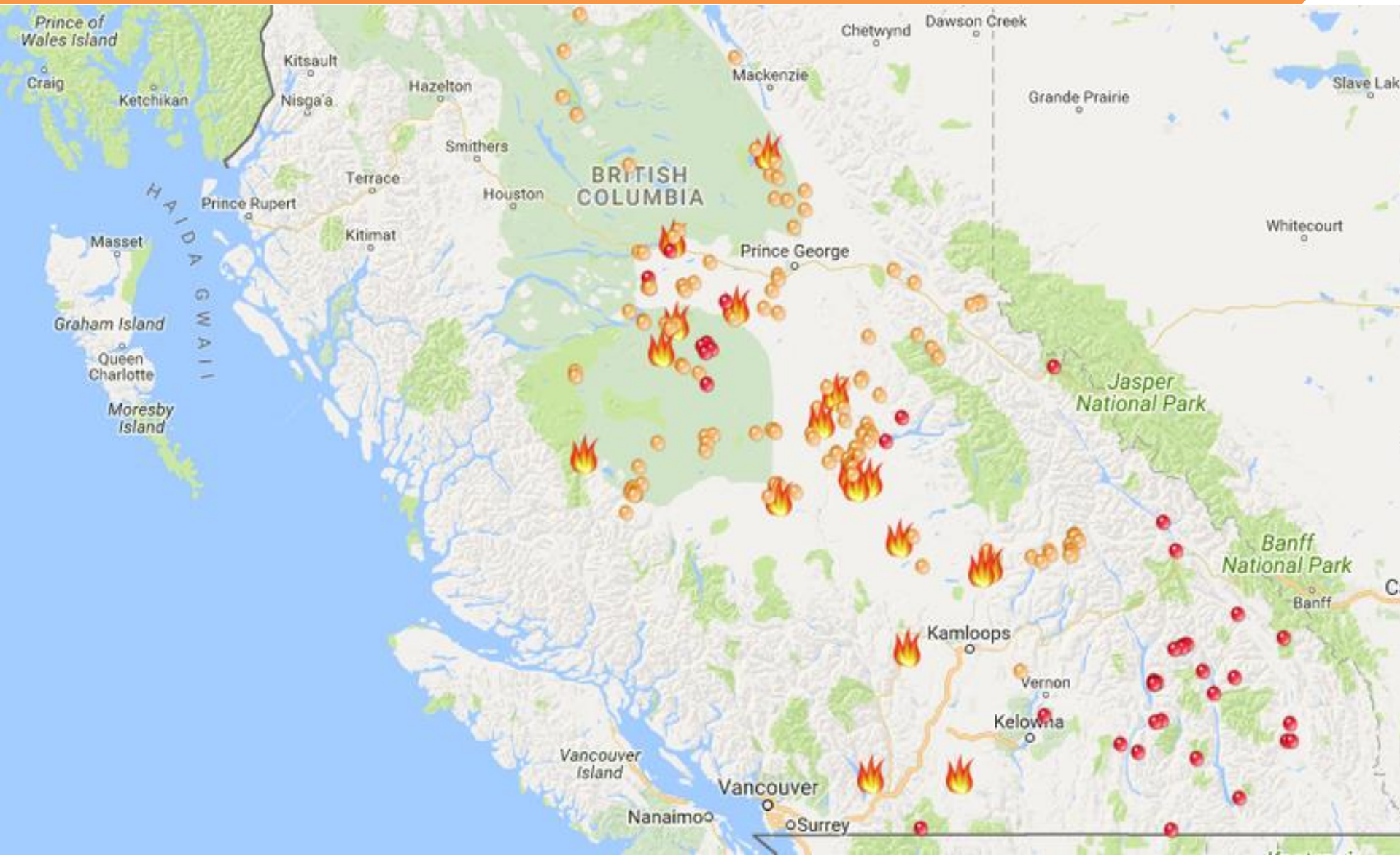


NORTH SHORE EMERGENCY MANAGEMENT

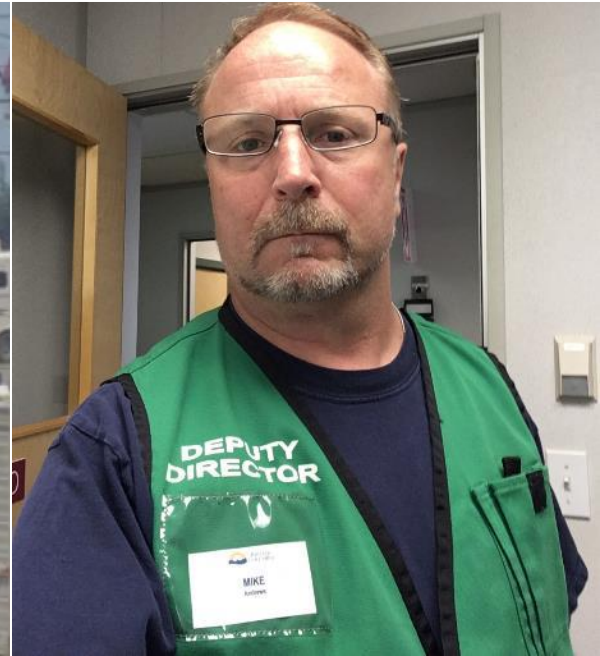
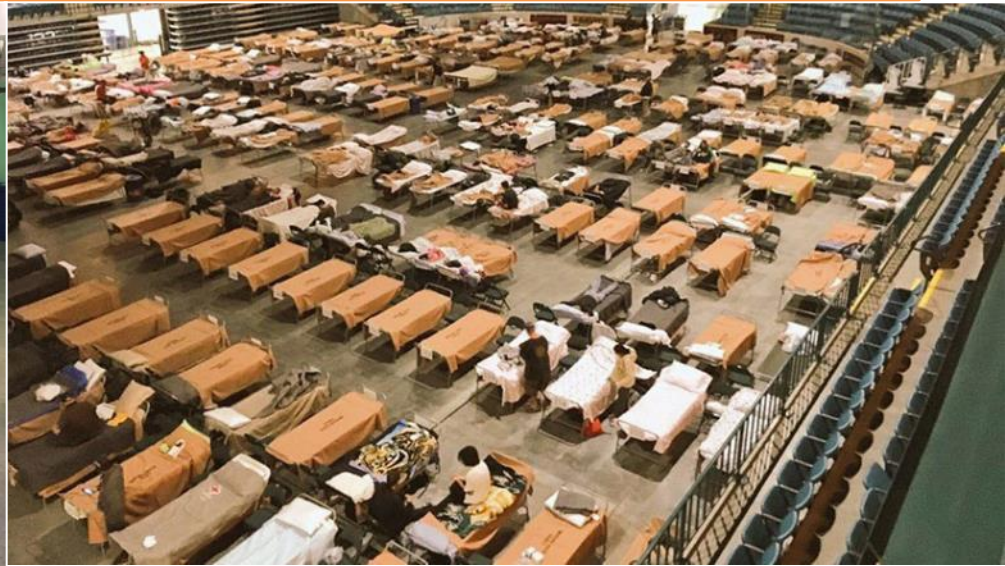
Urban Interface Fires

Mike Andrews
Acting Director/Emergency Planning Officer

BC Wildfire Map July 17, 2017

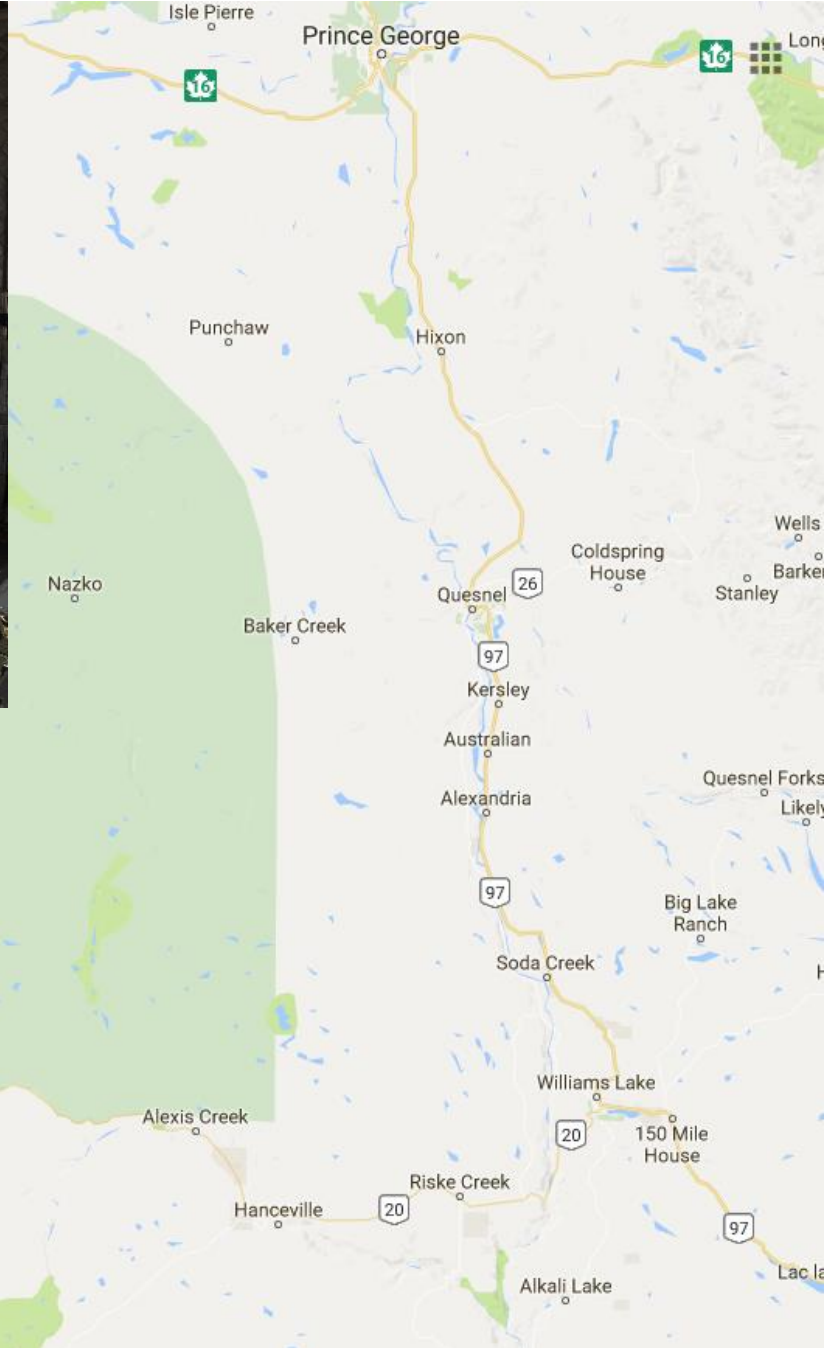


North Shore Helps Out





Highway 20



North Shore Support

30+ People have assisted wildfires

- Acting Director, NSEM – 6 days in Northeast PREOC
- Technical Coordinator, NSEM – 10 days supporting AMEC
- Office Supervisor +4 NSEM volunteers – 7 days for Lumby flood
- Assistant Fire Chief, WVFRS – 6 days in Williams Lake EOC
- Exec Assistant to WV Deputy CAO – 2 deployments 6 days in PECC
- NSEM EMT Volunteers
 - 7 days Advance Planning Unit in Central PREOC
 - 14 days in Williams Lake EOC; 1 week in PECC
- NSEM ESS Volunteers
 - 5 deployed 6 – 28 days into Kamloops
 - 16 doing daily support to Chilliwack

Grouse Mountain 1912



Brighton Beach 2016



Other Seasonal Complications

- Heavy use of forested areas
- Recreational fires (beaches, campgrounds, private, etc)
- Consistent fire bans (DNV, DWV, CNV, Metro, BC Parks)
- Consistent signage and messages (sign fatigue)
- Fluctuating weather patterns(put in the ban or lift it?)
- Air quality, vulnerable populations
- Water restrictions
- Reduced staffing
- Transient population
- Decreased resources



Wildfire Readiness

DNV Community Wildfire Protection Plan

- Ladder fuels reduction
- Wildfire Hazard Development Permits
- Proposed hot work permits in EXTREME

Annual all agency gear check

Wildfire Initial Response Guidelines

Seasonal exercises

Evacuation Plans

Smartphone Apps

Training & Exercising

Comprehensive training & exercise program including:

- Orientations
- Core training
- Functional Training (EOC/Field/DOC/ESS)
- Applied learning & Tabletop exercises
- Functional exercises
- Full-scale exercises

Simplification of Emergency Management

- Quick Reference Guides
- Videos
- Samples
- Support

Training & Exercises

MUNICIPAL STAFF

Personal Prep/Hazard Orientation

Intro to ICS

RDA

Other

DOC Basics

RDA Coord

EOC Basics

EOC FIN

EOC OPS/PLN/LOG/SUP

APPLIED LEARNING

FUNCTIONAL & TTX

FULL SCALE EXERCISES

VOLUNTEERS

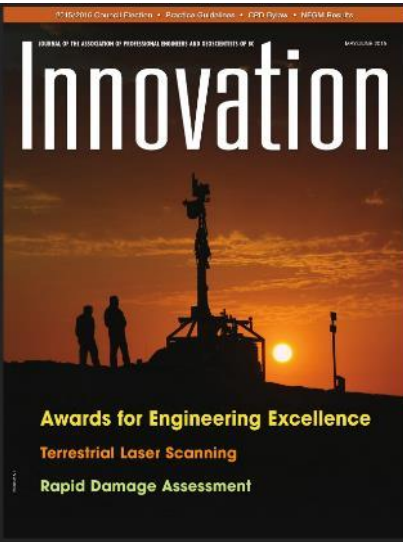
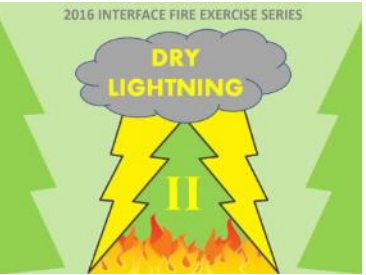
Personal Preparedness

EMT

ESS

ECT

Safety/Lifecycle of an Event



Evacuation

NSBM WEST VANCOUVER CITY EMERGENCY EVACUATIONS FIELD REFERENCE GUIDE

TACTICAL EVACUATION INSTRUCTIONS

SITUATION
A hazard impact has forced immediate action, allowing little/no warning and limited evacuation preparation time.

SCRIPT FOR PUBLIC NOTIFICATION
This is an official notice. An emergency situation exists due to [state hazard] and your area is being evacuated.

AUTHORITY TO ACT
On notification from a Fire Department Incident Commander, Commander/NCO, another authority or when an obvious fire safety exists and an immediate "tactical" evacuation is necessary.

NOTIFICATION PROCESS
Patrol officers or evacuation notification resources or near site:
1. Alert dispatch/the EOC of your intention to tactical evacuation

EVACUATION ALERT INSTRUCTIONS

SITUATION
The population in an area is informed that they may be required to evacuate in the near future and that they should prepare accordingly.

AUTHORITY TO ACT
Evacuation Alerts may give people time to prepare for evacuation, or may quickly proceed to an Evacuation Order.

NOTIFICATION PROCESS
Patrol officers or evacuation notification resources: Relay information on an area affected, population at risk, conditions and other situational awareness to evacuation notification resources. Do not door to door and inform people of the evacuation alert if you or resources under your control can safely do so. Do not do door to door, drive the neighborhood and use PA to announce the alert. Use the siren to draw public attention to the alert. Document the evacuation using a photo or smart phone (page) to indicate number of people, etc.

EVACUATION ORDER ACTIVITIES

SITUATION
The population is ordered to evacuate a defined area according to a formal written document that outlines the impact area and why an evacuation is necessary.

AUTHORITY TO ACT
Evacuation Orders are based on the authority granted through the declaration of a state of local emergency. This is a legal order and does not allow for any discretionary decision on the part of the individual.

SCRIPT FOR PUBLIC NOTIFICATION
This is an official notice. An emergency situation exists due to [state hazard] and your area is being evacuated. You are legally required to evacuate your household members and you are to follow the instructions of the evacuation order. If time allows take essential items. If you do not have personal vehicles, report to the assembly area. If you are in a bus or vehicle, report to the Reception Centre at call 778-338-6902 for more information that you are safe. Monitor www.nsbnm.ca for more information. If you, or someone in your household, has mobility issues that will prohibit them from evacuating, call 778-338-6302. It is the law that all under the age of 19 must evacuate.

EVACUATION TOOLS & RESOURCES

Tracking evacuation status is part of a vital element of information about the population at risk and allows for a more effective evacuation response.

STANDARD EVACUATION STATUS COLOURS

- NOT HOME - MUST BE CANVASSED AGAIN** (Blue)
- NOTIFIED BY AN ORDER TO EVACUATE** (Light Blue)
- NOTIFIED & NEEDS ASSISTANCE TO EVACUATE** (Red)
- NOTIFIED AS BEING EVACUATED** (Yellow)
- NOTIFIED AND REFUSING TO EVACUATE** (Orange)

Evacuation Tools are available from:

- RCMP Watch Commander
- RCMP NCO
- RCMP Reception
- NSBM Reception

Evacuation Essentials 10 minute training video available for download from:
<https://nsbnm.ca/evacuation-essentials>

Evacuation tracking app is used on direction of the Watch Commander/NCO or Emergency Operations Centre.
A 3 minute video tutorial is available here:
<https://nsbnm.ca/evacuation-tracking-app>

Evacuation web tracking app is used on direction of the Watch Commander/NCO supervisor or Emergency Operations Centre.
A 3 minute video tutorial is available here:
<https://nsbnm.ca/evacuation-web-tracking-app>

REFUSAL TO EVACUATE

Request next of kin information and advise them that this is their notice to leave and responders will not be put at unnecessary risk to rescue them. Note the address, report and record the refusal.

FOR YOUR SAFETY LEAVE IMMEDIATELY

Report to the Reception Centre at call 778-338-6902 for more information that you are safe. Monitor www.nsbnm.ca for more information.

Evacuation notification

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Evacuation notification

REQUIRED PUBLIC ACTION

Local home from town
Evacuate the building and area immediately
Prepare people, pets, papers & prescriptions
Evacuate the building and area immediately
Safe to return for the evacuated area

STAGE

- Order in Place** Stay mobile
- Tactical Evacuation** Leave immediately due to imminent threat
- Evacuation Alert** Be ready to leave on very short notice
- Evacuation Order** Legal requirement to immediately leave the area
- Evacuation Order** Evacuation alert/order has been lifted



Evacuation Status

Parcel Address: 355 W QUEENS RD

Comments:

Date:

BuildingType: MUNICIPAL HALL

NumberOfOccupants:

BulletinLeft:

TeamName:

EvacStatus: Notified to Evacuate but Requires Assistance

CLOSE

Inspection Required: YES, RESIDENTIAL

Building Name: QUEENS GARDEN APARTMENTS

Building Class: RESIDENTIAL

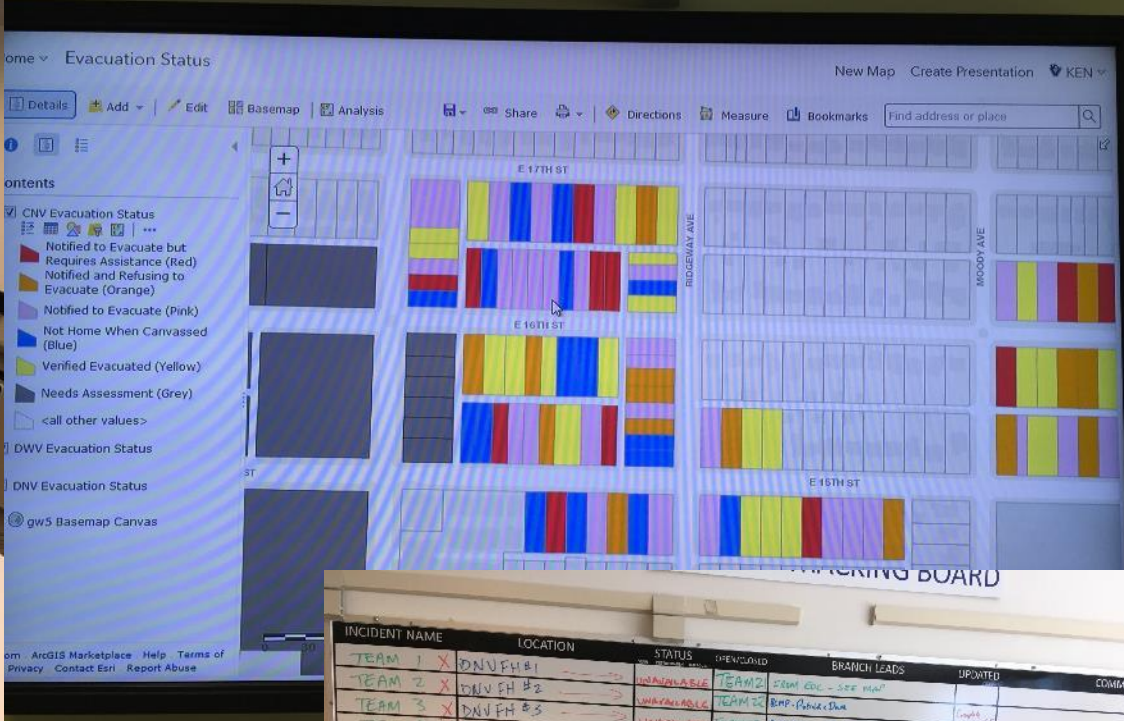
Building Type: MULTI FAMILY

Further Inspection Required: YES

Zoom to | Get Directions | Edit



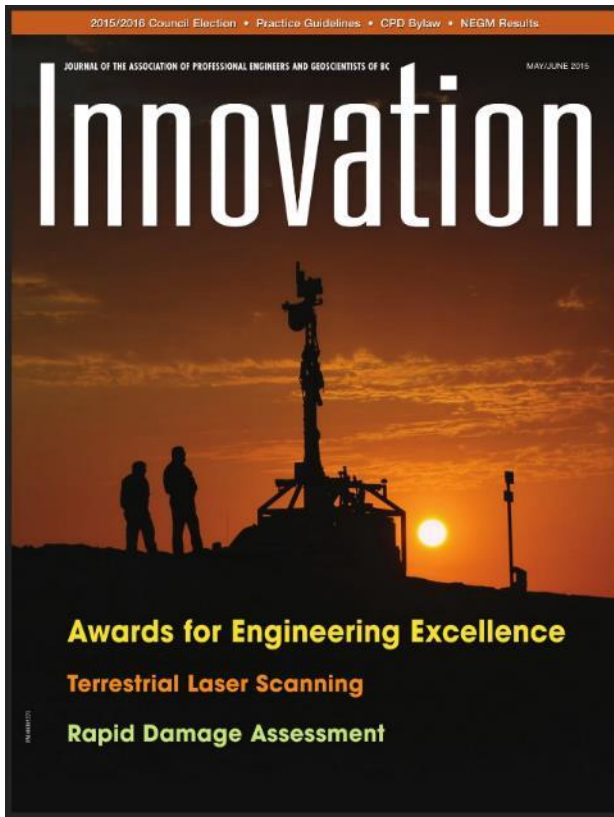
EvacEx 2017



INCIDENT NAME LOCATION STATUS (PENDING) BRANCH LEADS UPDATED

INCIDENT NAME	LOCATION	STATUS	(PENDING)	BRANCH LEADS	UPDATED
TEAM 1	X DNV FH #1	UNAVAILABLE	TEAM 21	SEAN COLE - SEE MAP	
TEAM 2	X DNV FH #2	UNAVAILABLE	TEAM 22	BMP - PHOENIX DIA	Complete 50
TEAM 3	X DNV FH #3	UNAVAILABLE	TEAM 23	BMP - ANTONIO BRANCH	Complete 50
TEAM 4	X DNV FH #4	UNAVAILABLE	TEAM 24	PETER ALVIN	Active
TEAM 5	X DNV FH #5	UNAVAILABLE	TEAM 25	ROBERT STREPT	Active
TEAM 6	Team 6C - SEE MAP		TEAM 26	WV ENGINEERING	
TEAM 7	Team 7C - SEE MAP		TEAM 27	WV ENGINEERING	
TEAM 8	Dead	Active	TEAM 28	WV ENGINEERING	
TEAM 9	Team 9C - SEE MAP		TEAM 29	BRYAN H - DOTTSON (REMOVE)	Complete 50
TEAM 10	Team 10C - SEE MAP		TEAM 30	ARAC - VALHALLA - UNRECOGNIZED (REMOVE)	
TEAM 11	WV PD (WIKI/BOW)		TEAM 31	JONAS MC - WORTHAM PARK (REMOVE)	
TEAM 12	Bernadette	Active	TEAM 32	CHOS (OHA) - SCHICKLES (REMOVE)	
TEAM 13	Can - Remove	Active	TEAM 33	RYAN - CRAIG WOODS (REMOVE)	
TEAM 14					
TEAM 15	MUSIC BOSS (OHA) - MONTGOMERY PARK	Complete	50		
TEAM 16	GENA 10TH & RIDGEWAY				
TEAM 17	Team 17 13th & Moody	Active			
TEAM 18	SPRINK 17th & MOODY	Complete	50		
TEAM 19	RUB - Lark	Complete	50		
TEAM 20					

Innovation & Collaboration



After successful testing of a new mobile and web-based data collection tool in April, the ability to quickly and efficiently record damages to buildings after an earthquake or other extreme weather event is now a reality in British Columbia. The technology was developed by a UBC student engineering project co-sponsored by BC Housing and the North Shore Emergency Management Office (NSEMO). "Speeding up Rapid Damage Assessment has been a need for some time," said Mike Andrews, Emergency Planning Officer for NSEMO. "The impetus for the new RDA app was an emergency management open house where I learned that my peers in different cities were trying to work on improved data collection through various agencies. There were a lot of people working parallel courses, but everybody was on a different page."

He later spoke with Steven Bibby, Senior Manager, Security and Emergency Services for BC Housing. "We discussed the need for a standardized system," said Andrews. "We needed to be working on the tools and templates that could benefit everybody." "Amazingly, while I'm on the phone with Steven, he pops an email from UBC offering the services of engineering students looking for real world problems to solve. Steven and I developed a proposal for a field tool that would allow people to report building damage electronically and have it geo-spatially represented in an Emergency Operations Centre."

BC Housing became involved in Rapid Damage Assessment after the 1989 San Francisco earthquake. "We estimated that when a similar event happens here, more than a half million people may evacuate

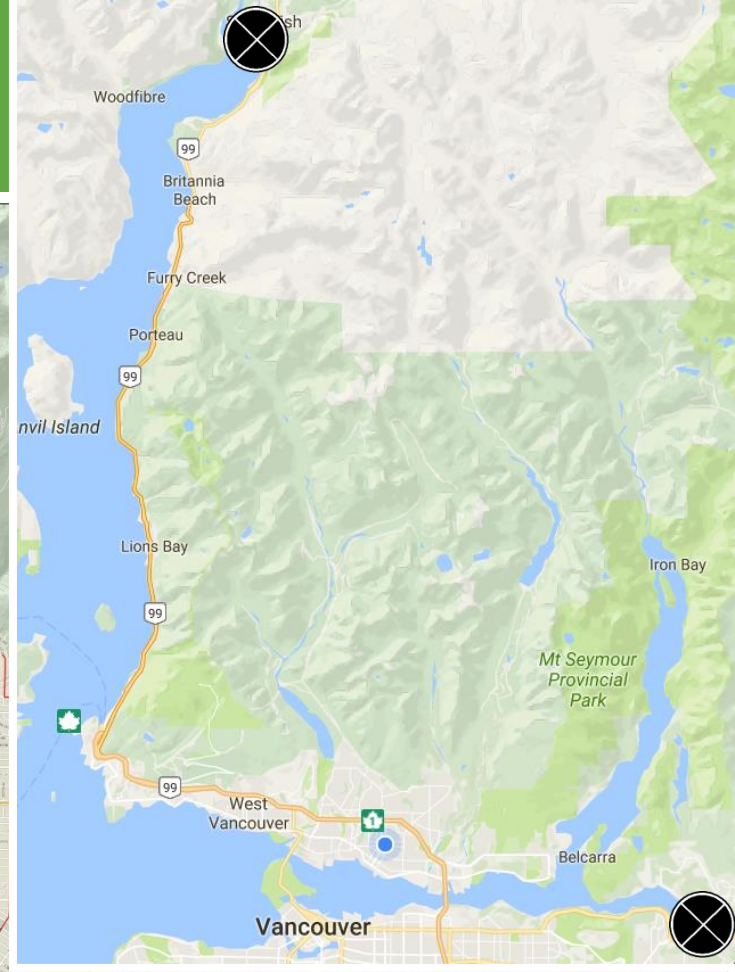
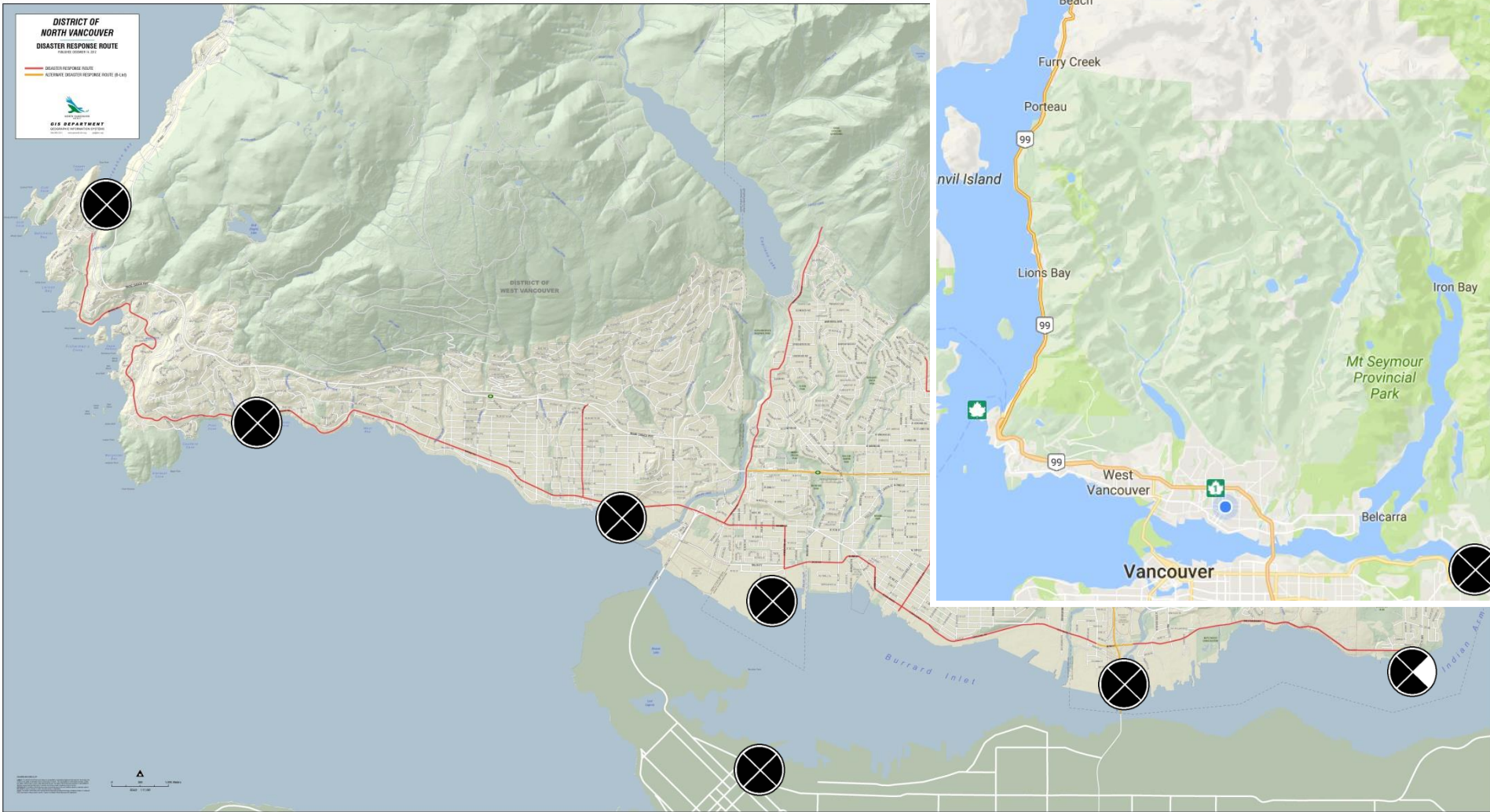
their homes," noted Steven Bibby. "Because we're a component of the emergency social service system, BC Housing might have to help provide emergency lodging. Even with a small amount of damage, people might think their homes are unsafe."

In 1991, BC Housing began to train employees to do damage assessments and soon provided training to emergency management practitioners throughout the province and elsewhere, including Japan in the aftermath of the devastating 2011 earthquake and tsunami.

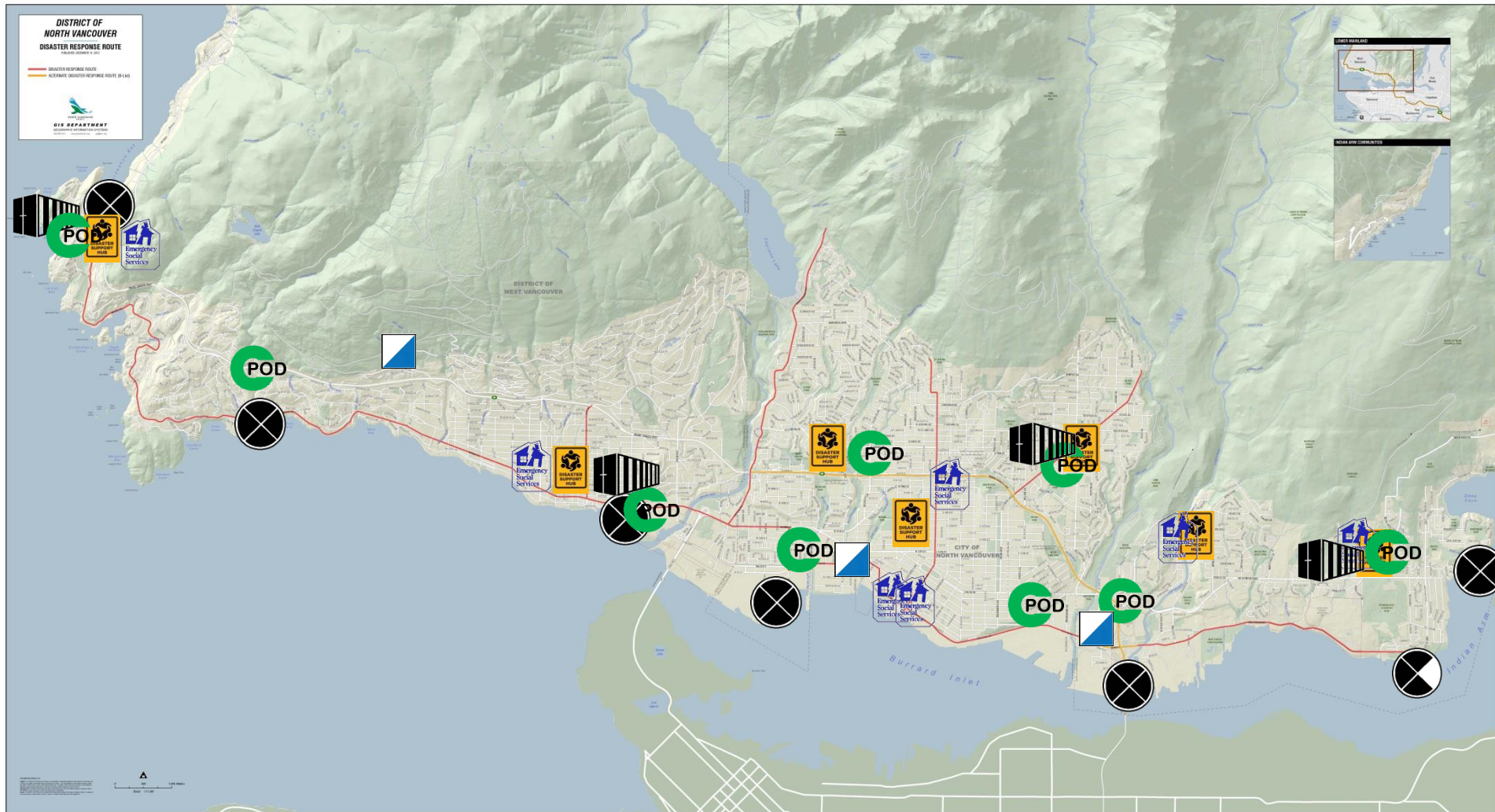
"We teach the basic skills required to identify unsafe conditions and to determine if buildings can be re-occupied," said Bill White, Security and Emergency Preparedness Coordinator for BC Housing. "Our RDA course is based on guidelines created by the Applied Technology Council in California. We combined their ATC 20



Transportation Staging Areas



TSA, DSH, CPOD, DOC, EOC, RC



Transportation Staging Area



Department Operations Centre



Reception Centre/Group Lodging



Community Point of Distribution



Disaster Supply Cache

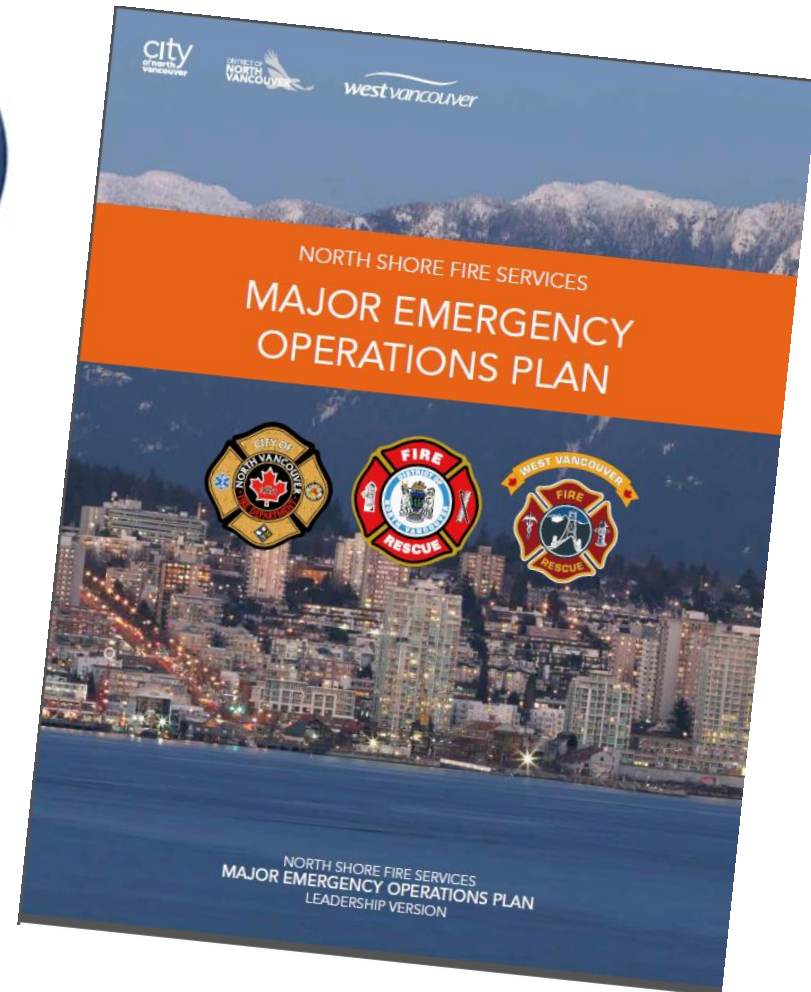
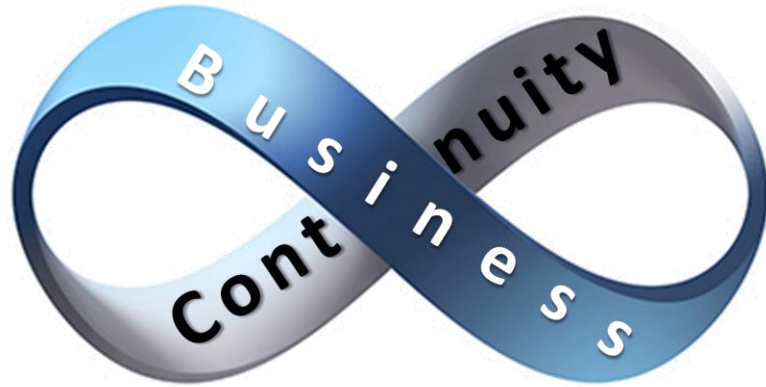


Disaster Support Hub

Working Groups



Planning

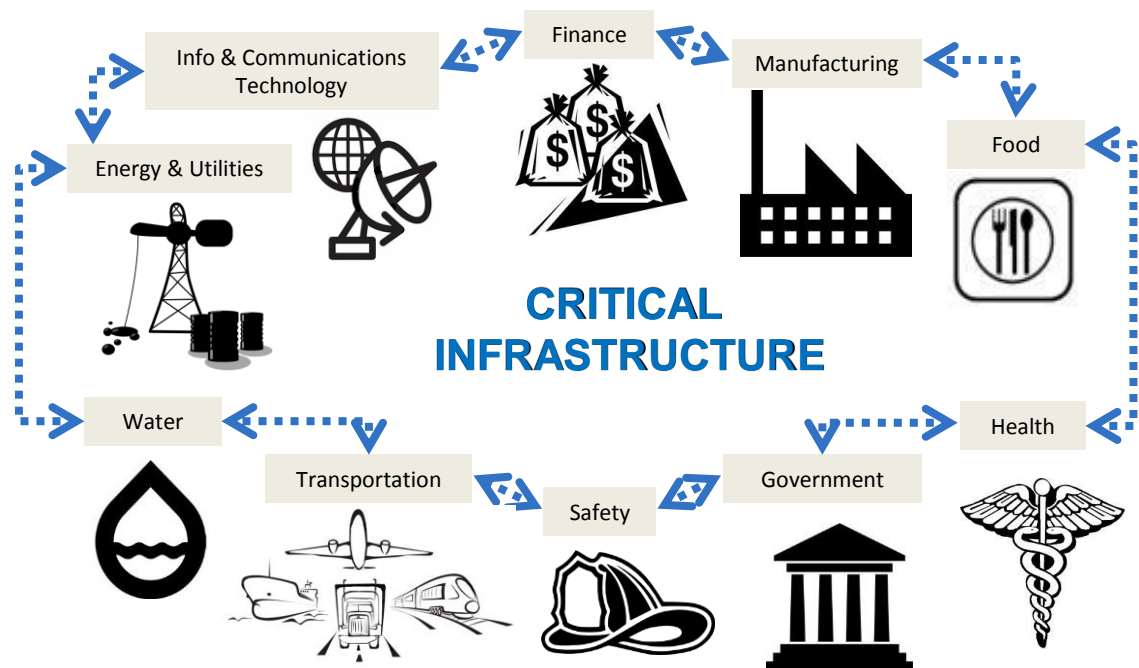
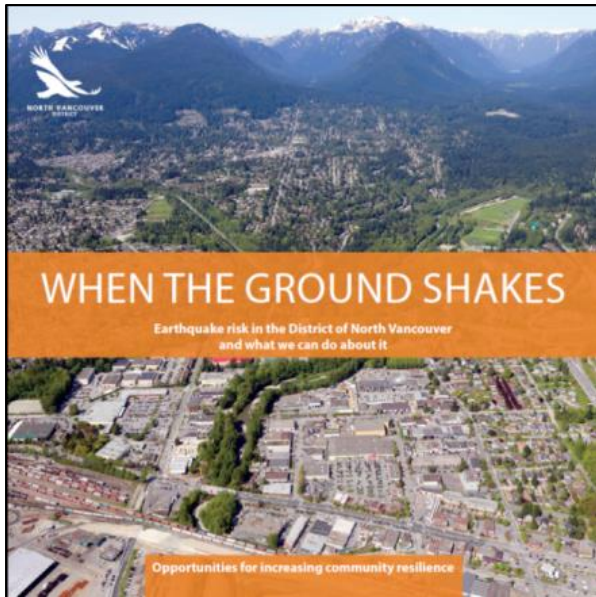


Oil Spill Plans

- Tri-municipal strategy
- Inland spill response plan
- Marine spill response plan (w/ Vancouver)
- Greater Vancouver Integrated Response Plan (GVIRP)
- Regional Community Advisory Council



Studies & Reports



Contact Information

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NorthShoreEMO



NORTH SHORE EMERGENCY MANAGEMENT

City of North Vancouver District of North Vancouver District of West Vancouver