

Hayes, Dana GCPE:EX

From: McLarty, Jennifer GCPE:EX
Sent: Saturday, October 27, 2012 9:24 PM
To: GCPE EMBC Communications; Tomaz, David JAG:EX
Subject: Twitter/Blog Update: Zones Added

As per discussion with David. Out on the feed updating earlier info.

UPDATE: [#Tsunami](#) warning for North Coast, Haida Gwaii & Central Coast. NO warning currently for North Van Island. <http://ow.ly/eP3ID>

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

Hayes, Dana GCPE:EX

From: McLarty, Jennifer GCPE:EX
Sent: Saturday, October 27, 2012 10:04 PM
To: GCPE EMBC Communications; Tomaz, David JAG:EX
Cc: Mohrmann, Ralph JAG:EX
Subject: FYI: Tweet: Wave Recording, Langara Island

Thx for the intel Ralph.

NEW INFO: 44 cm wave recorded at Langara Island, north tip of [#HaidaGwaii](#). [#Tsunami](#) warning still in effect.
<http://ow.ly/eP4hr>

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

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Hayes, Dana GCPE:EX

From: McLarty, Jennifer GCPE:EX
Sent: Saturday, October 27, 2012 10:04 PM
To: Croft, Robyn J GCPE:EX
Cc: GCPE EMBC Communications
Subject: RE: Earthquake/Tsunami tweets

Fabulous. Thx for the support!

Jennifer McLarty | Social Media & Online Communications Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

From: Croft, Robyn J GCPE:EX
Sent: Saturday, October 27, 2012 9:59 PM
To: McLarty, Jennifer GCPE:EX
Subject: RE: Earthquake/Tsunami tweets

Jen, I'm going to put a post on FB as well regarding the situation and directing them to your page.

From: McLarty, Jennifer GCPE:EX
Sent: 27 October 2012 21:56
To: Croft, Robyn J GCPE:EX; Spilak, Ashley GCPE:EX; Barrett, Lisa GCPE:EX; McCaffrey, Julianne GCPE:EX
Cc: Finnigan, Brooke GCPE:EX
Subject: RE: Earthquake/Tsunami tweets

It's the West Coast Alaska Warning Centre link.
Its site is up & down.

We're redirecting folks to emergency info bc.

Jennifer McLarty | Social Media & Online Communications Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

From: Croft, Robyn J GCPE:EX
Sent: Saturday, October 27, 2012 9:55 PM
To: Spilak, Ashley GCPE:EX; Barrett, Lisa GCPE:EX; McLarty, Jennifer GCPE:EX; McCaffrey, Julianne GCPE:EX
Cc: Finnigan, Brooke GCPE:EX
Subject: Earthquake/Tsunami tweets

Hi ladies, just went online and saw what was up -- had no idea. I've retweeted one of your posts but the links were not working so have put up a second one. I can be online to assist tonight if needed, just let me know by email - I'll keep my phone alerts on. Not sure if you guys have access to @BCGovNews, I'm sure you do, but feel free to retweet directly on that account to get the most reach. If it's too crazy busy there trying to get info etc. no worries, I can jump in and assist. Will keep an eye out to keep people informed.

Not good news :(

Hayes, Dana GCPE:EX

From: McLarty, Jennifer GCPE:EX
Sent: Saturday, October 27, 2012 10:05 PM
To: GCPE EMBC Communications
Subject: Working on Tweet Now: NWS-WCATWC Tsunami Warning/Advisory

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

From: National Weather Service [nws.noaa@service.govdelivery.com]
Sent: Saturday, October 27, 2012 10:04 PM
To: McLarty, Jennifer GCPE:EX
Subject: NWS-WCATWC Tsunami Warning/Advisory

NWS-WCATWC Tsunami Warning/Advisory

WEPA41 PAAQ 280502
TSUWCA

BULLETIN

TSUNAMI MESSAGE NUMBER 5
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
1002 PM PDT SAT OCT 27 2012

THE WARNING ZONES REMAIN THE SAME IN THIS MESSAGE.
AN ADVISORY HAS BEEN ISSUED FOR THE REST OF BRITISH COLUMBIA-
SOUTH OF THE NORTH TIP OF VANCOUVER ISLAND.

...THE TSUNAMI WARNING CONTINUES IN EFFECT FOR THE COASTAL
AREAS OF BRITISH COLUMBIA AND ALASKA FROM THE NORTH TIP OF
VANCOUVER ISLAND BRITISH COLUMBIA TO CAPE DECISION
ALASKA/LOCATED 85 MILES SE OF SITKA/...

...A TSUNAMI ADVISORY IS NOW IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF BRITISH COLUMBIA FROM THE
WASHINGTON-BRITISH COLUMBIA BORDER TO THE NORTH TIP OF
VANCOUVER ISLAND BRITISH COLUMBIA...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
CALIFORNIA - OREGON AND WASHINGTON FROM THE
CALIFORNIA-MEXICO BORDER TO THE WASHINGTON-BRITISH COLUMBIA
BORDER...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
ALASKA FROM CAPE DECISION ALASKA/LOCATED 85 MILES SE OF
SITKA/ TO ATTU ALASKA...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH IS EXPECTED TO CAUSE DAMAGE
TO THE WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE.
PEOPLE IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO
INSTRUCTIONS FROM THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS
ARE ONLY ORDERED BY EMERGENCY RESPONSE AGENCIES.

- IF IN A TSUNAMI WARNING COASTAL AREA MOVE INLAND TO
HIGHER GROUND.

- IF IN A TSUNAMI ADVISORY COASTAL AREA MOVE OUT OF

THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

MEASUREMENTS OR REPORTS OF TSUNAMI ACTIVITY

| LOCATION | LAT | LON | TIME | AMPL |
|------------------------|-------|--------|---------|---------------|
| DART46419PT NW SEATTLE | 48.8N | 129.6W | 0345UTC | 00.2FT/00.07M |
| CRAIG AK | 55.5N | 133.1W | 0425UTC | 00.3FT/00.09M |
| PORT ALEXANDER AK | 56.2N | 134.6W | 0410UTC | 00.3FT/00.08M |
| WINTER HARBOUR BC | 50.7N | 128.3W | 0402UTC | 00.5FT/00.15M |

TIME - TIME OF MEASUREMENT

AMPL - TSUNAMI AMPLITUDES ARE MEASURED RELATIVE TO NORMAL SEA LEVEL.
IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
VALUES ARE GIVEN IN BOTH METERS/M/ AND FEET/FT/.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.7
TIME - 1904 AKDT OCT 27 2012
2004 PDT OCT 27 2012
0304 UTC OCT 28 2012
LOCATION - 52.9 NORTH 131.9 WEST
25 MILES/40 KM S OF SANDSPIT BRITISH COLUMBIA
385 MILES/620 KM SE OF JUNEAU ALASKA
DEPTH - 12 MILES/19 KM

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT... EXPECTED OR OCCURRING. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PEOPLE IN OR VERY NEAR THE WATER IS EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS UNDER AN ADVISORY. CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

PACIFIC COASTAL REGIONS OUTSIDE CALIFORNIA/ OREGON/ WASHINGTON/ BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

THIS MESSAGE WILL BE UPDATED IN 30 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

BCZ220-210-922-912-921-911-110-AKZ026>029-280602-
/O.CON.PAAQ.TS.W.0024.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING THE NORTH TIP OF
VANCOUVER ISLAND BRITISH COLUMBIA TO CAPE DECISION
ALASKA/LOCATED 85 MILES SE OF SITKA/
1002 PM PDT SAT OCT 27 2012

...THE TSUNAMI WARNING CONTINUES IN EFFECT FOR THE COASTAL
AREAS OF BRITISH COLUMBIA AND ALASKA FROM THE NORTH TIP OF
VANCOUVER ISLAND BRITISH COLUMBIA TO CAPE DECISION
ALASKA/LOCATED 85 MILES SE OF SITKA/...

PEOPLE IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT... EXPECTED OR OCCURRING. TSUNAMIS ARE A

SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE WARNING ARE PROVIDED BELOW.

LANGARA 2116 PDT OCT 27 CRAIG 2110 AKDT OCT 27

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

\$\$

BCZ130-230-250-260-280-160-142-141-150-121-122-280602-
/O.NEW.PAAQ.TS.Y.0024.121028T0502Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING THE WASHINGTON-BRITISH
COLUMBIA BORDER TO THE NORTH TIP OF VANCOUVER ISLAND
BRITISH COLUMBIA
1002 PM PDT SAT OCT 27 2012

...A TSUNAMI ADVISORY IS NOW IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF BRITISH COLUMBIA FROM THE
WASHINGTON-BRITISH COLUMBIA BORDER TO THE NORTH TIP OF
VANCOUVER ISLAND BRITISH COLUMBIA...

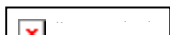
PEOPLE IN TSUNAMI ADVISORY COASTAL AREAS SHOULD MOVE OUT OF
THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

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A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL
ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

TOFINO 2209 PDT OCT 27

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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This service is provided by NOAA's [National Weather Service](#).



Hayes, Dana GCPE:EX

From: Today's News Online GCPE:EX
Sent: Sunday, October 28, 2012 2:34 AM
Subject: Scrum: Bond: Damage & risk at fairly low level

Out of Scope, s.3

Pages 8 through 10 redacted for the following reasons:

Out of Scope , s.3

Out of Scope, s.3

Hayes, Dana GCPE:EX

From: Johnston, Karen GCPE:EX
Sent: Tuesday, December 11, 2012 12:21 PM
To: Hayes, Dana GCPE:EX
Subject: FW: earthquake - rolling IN

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

-----Original Message-----

From: Johnston, Karen GCPE:EX
Sent: Monday, November 19, 2012 1:37 PM
To: Hayes, Dana GCPE:EX
Subject: FW: earthquake - rolling IN

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

-----Original Message-----

From: Groot, Jeff GCPE:EX
Sent: Sunday, October 28, 2012 9:14 AM
To: Johnston, Karen GCPE:EX; Schollen, Tasha GCPE:EX
Cc: Murphy, Bernadette GCPE:EX
Subject: RE: earthquake - rolling IN

I'll send you our IN that's focused on criticism of our response (some said too slow) - and the latest sit report.

From: Johnston, Karen GCPE:EX
Sent: Sunday, October 28, 2012 9:13 AM
To: Schollen, Tasha GCPE:EX; Groot, Jeff GCPE:EX
Cc: Murphy, Bernadette GCPE:EX
Subject: earthquake - rolling IN

Morning - do you have anything like this in the works? I have a media call this am on our spill response capabilities after a quake that I'll share with you when signed off but wondering if you have any key messages that I can weave in -something like no reports of any infrastructure damage at this point etc.

tk

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

Hayes, Dana GCPE:EX

From: McLarty, Jennifer GCPE:EX
Sent: Sunday, October 28, 2012 9:32 AM
To: McCaffrey, Julianne GCPE:EX; GCPE EMBC Communications
Subject: RE: On it: NWS-WCATWC Tsunami Information Statement

Yep. Would probably characterize as a sizable aftershock.

Tweet: 5.1M [#earthquake](#) occurred 97 KM south of Sandspit at 9:17 AM. No [#tsunami](#) alert for [#BC](#).
<http://ow.ly/ePoMj>

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

From: McCaffrey, Julianne GCPE:EX
Sent: Sunday, October 28, 2012 9:27 AM
To: McLarty, Jennifer GCPE:EX; GCPE EMBC Communications
Subject: Re: On it: NWS-WCATWC Tsunami Information Statement

[A new one???](#)

From: McLarty, Jennifer GCPE:EX
Sent: Sunday, October 28, 2012 09:25 AM
To: GCPE EMBC Communications
Subject: On it: NWS-WCATWC Tsunami Information Statement

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

From: National Weather Service [nws.noaa@service.govdelivery.com]
Sent: Sunday, October 28, 2012 9:22 AM
To: McLarty, Jennifer GCPE:EX
Subject: NWS-WCATWC Tsunami Information Statement

NWS-WCATWC Tsunami Information Statement

SEUS71 PAAQ 281620
EQIWOC

TSUNAMI SEISMIC INFORMATION STATEMENT
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
920 AM PDT SUN OCT 28 2012

...THIS IS AN INFORMATION STATEMENT...

EVALUATION

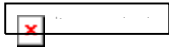
AN EARTHQUAKE HAS OCCURRED THAT IS NOT EXPECTED TO GENERATE
A TSUNAMI. THIS WILL BE THE ONLY WCATWC MESSAGE ISSUED
FOR THIS EVENT.

PRELIMINARY EARTHQUAKE PARAMETERS
MAGNITUDE - 5.1

TIME - 0817 AKDT OCT 28 2012
0917 PDT OCT 28 2012
1617 UTC OCT 28 2012
LOCATION - 52.4 NORTH 131.7 WEST
60 MILES/97 KM S OF SANDSPIT BRITISH COLUMBIA
425 MILES/684 KM SE OF JUNEAU ALASKA
DEPTH - 9 MILES/15 KM

THE LOCATION AND MAGNITUDE ARE BASED ON PRELIMINARY INFORMATION.
FURTHER INFORMATION WILL BE ISSUED BY THE UNITED STATES
GEOLOGICAL SURVEY - EARTHQUAKE.USGS.GOV - OR THE APPROPRIATE
REGIONAL SEISMIC NETWORK.

\$\$

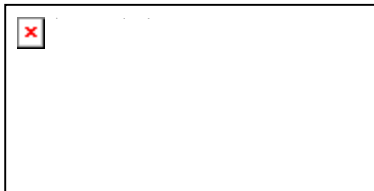


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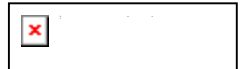
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West Highway · Silver Spring, MD 20910



Hayes, Dana GCPE:EX

From: Johnston, Karen GCPE:EX
Sent: Tuesday, December 11, 2012 12:21 PM
To: Hayes, Dana GCPE:EX
Subject: FW: earthquake - rolling IN

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

-----Original Message-----

From: Johnston, Karen GCPE:EX
Sent: Monday, November 19, 2012 1:38 PM
To: Hayes, Dana GCPE:EX
Subject: FW: earthquake - rolling IN

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

-----Original Message-----

From: Groot, Jeff GCPE:EX
Sent: Sunday, October 28, 2012 9:36 AM
To: Johnston, Karen GCPE:EX
Cc: Schollen, Tasha GCPE:EX
Subject: Re: earthquake - rolling IN

Thx!

----- Original Message -----

From: Johnston, Karen GCPE:EX
Sent: Sunday, October 28, 2012 09:35 AM
To: Groot, Jeff GCPE:EX
Cc: Schollen, Tasha GCPE:EX
Subject: RE: earthquake - rolling IN

Thanks Jeff. My stuff is in signoff right now. Will send it to you shortly.

-----Original Message-----

From: Groot, Jeff GCPE:EX
Sent: Sunday, October 28, 2012 9:14 AM
To: Johnston, Karen GCPE:EX; Schollen, Tasha GCPE:EX
Cc: Murphy, Bernadette GCPE:EX
Subject: RE: earthquake - rolling IN

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To: Schollen, Tasha GCPE:EX; Groot, Jeff GCPE:EX

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tk

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

**CONFIDENTIAL
ISSUES NOTE**

Ministry of Justice

Date: Oct 29, 2012

Minister Responsible: Hon. Shirley Bond

**Earthquake & Tsunami
Warning in Haida Gwaii**

ADVICE AND RECOMMENDED RESPONSE:

- **As soon as the Province was made aware of the situation, staff deployed to the Provincial Emergency Coordination Centre to begin obtaining details, requesting and providing information as they could.**
- **The information provided to the province comes from the West Coast and Alaska Tsunami Warning Centre. The Centre's website incurred technical issues delaying the ability for BC to confirm many details.**
- **In emergencies, accurate information is paramount to public safety; a hasty response with potentially inaccurate information can lead to greater safety risks.**
- **Emergency-Info-BC is managed by two staff, they engaged immediately upon notification and as soon as trusted information was obtained, it was relayed.**
- **The first EMBC blog post was 8:45pm and tweeted at 8:55pm. In the lead up to that, staff advised the public they were working on getting accurate information.**
- **As soon as one could technically be convened and experts made available to answer questions, a media conference call was held to provide updated information and the call's recording was posted online.**

KEY FACTS REGARDING THE ISSUE:

There were criticisms on the delay in information available online about the earthquake and tsunami alert. The EMBC online communication team (2 FTE's, unpaid overtime) were among the very first to respond to the event and self-deploy, however, it was 50 minutes before proper analysis of the information collected could be done and thereby relayed to the online public.

The timeline:

20:09 - West Coast Alaska Tsunami Warning centre Bulletin #1 notification to ECC
20:10 - ECC called ECC supervisor to call in support as phone lines inundated
20:21 - ECC notification to the EQ distribution list (internal stakeholders) of event
20:24 - Provincial Duty Manager called by ECC
20:33 - Provincial Duty Manager arrived at PECC
20:48 - First online post by social media team
21:05 - EMBC PENS #1 notification
21:20 - EMBC joins WCATWC conference call #1
22:24 - EMBC PENS #2 notification
22:30 - EMBC joins WCATWC conference call #2
23:07 - EMBC PENS #3 notification
23:07 - PECC SitRep#1
23:30 - EMBC joins WCATWC conference call #3
23:30 - CCG call
23:36 - EMBC PENS #4 notification
00:07 - PECC SitRep #2
02:24 - PECC SitRep #3
03:03 - EMBC PENS #5 notification

Roughly 30 tweets occurred beginning at 20:48 pm

Eleven tsunami bulletins were issued by WCATWC for this event. Based on this information, EMBC has issued five tsunami notification bulletins through the Provincial Emergency Notification System (PENS) to emergency management stakeholders and the media. A total of approximately 4800 voice calls, 4500 e-mail and 1600 faxes were issued. Some of these calls were reportedly delayed due to congestion and potentially because of power and telecom outages.

The Provincial Emergency Notification System (PENS) is the primary method of notification to designated parties within the coastal communities affected by the tsunami warning. Emergency Info BC is a public facing mechanism for information sharing of confirmed, accurate information through online channels.

EARTHQUAKE BACKGROUND

An earthquake of magnitude 7.7 (originally determined to be 7.1) occurred off the coast of Sandspit BC at 2004 hours October 27, 2012. An initial tsunami warning for the coastal areas of BC from the north tip of Vancouver Island to Alaska (including the North Coast and Haida Gwaii, as well as Bella Bella, Bella Coola, and Shearwater) was issued by the National Weather Service West Coast Alaska and Tsunami Warning Centre a short time later. The outer west coast of Vancouver Island (from Cape Scott to Port Renfrew and Juan de Fuca Strait from Jordan River to Greater Victoria including the Saanich Peninsula) were subsequently placed under a tsunami advisory.

Three Provincial Regional Emergency Operations Centres (PREOCs) were activated: Terrace, Prince George, and Victoria with EMBC staff and TEAMS members in attendance. The Provincial Emergency Coordination Centre (PECC) activated with 13 EMBC staff, three TEAMS members and a Provincial Emergency Radio Communications System (PERCS) amateur radio volunteer in attendance.

Local authority emergency operations centres (EOCs) were activated in:

- Prince Rupert
- Queen Charlotte City
- Masset:
- Port McNeill
- Skidegate
- Kincolith (Nisga'a)
- Port Hardy
- Bella Coola
- Bella Bella

Hayes, Dana GCPE:EX

From: Today's News Online GCPE:EX
Sent: Sunday, October 28, 2012 4:29 PM
Subject: CKNW: Bond: Earthquake response update

Out of Scope, s.3

Page 20 redacted for the following reason:

Out of Scope, s.3

Hayes, Dana GCPE:EX

From: Johnston, Karen GCPE:EX
Sent: Tuesday, December 11, 2012 12:21 PM
To: Hayes, Dana GCPE:EX
Subject: FW: MEDIA- Vancouver Observer - Beth Hongs - -deadline noon today -- pls review suggested response

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

From: Johnston, Karen GCPE:EX
Sent: Monday, November 19, 2012 1:38 PM
To: Hayes, Dana GCPE:EX
Subject: FW: MEDIA- Vancouver Observer - Beth Hongs - -deadline noon today -- pls review suggested response

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

From: Shoemaker, Wes ENV:EX
Sent: Sunday, October 28, 2012 9:50 AM
To: Standen, Jim ENV:EX
Cc: Johnston, Karen GCPE:EX; Hofweber, Jim E ENV:EX
Subject: Re: MEDIA- Vancouver Observer - Beth Hongs - -deadline noon today -- pls review suggested response

I agree with Jim's assessment of bullet 6 Rest looks gods.

Wes

W.H. (Wes) Shoemaker
Deputy Minister
Ministry of Environment
5th Floor, 2975 Jutland Road
Victoria, BC
Bus: (250) 387-5429
Fax: (250) 387-6003
wes.shoemaker@gov.bc.ca

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Sent from my iPhone

On 2012-10-28, at 9:38 AM, "Standen, Jim ENV:EX" <Jim.Standen@gov.bc.ca> wrote:

Karen,

Looks good but your sixth bullet I think (now that I have had a few minutes to mull it over) is the most important message, that being that response to tanker spills is the responsibility of the federal government and that is why we are looking to Canada to enhance capacity. From there we could go on to talk about our support role in the case of a tanker spill.

Jim

On 2012-10-28, at 9:32 AM, "Johnston, Karen GCPE:EX" <Karen.V.Johnston@gov.bc.ca> wrote:

Question: Does Minister Lake have any comment on whether the province is adequately prepared for possible oil tanker damage or spill as a result of earthquakes and tsunamis?
Suggested response: email following info to reporter:

- Ministry of Environment environmental protection staff are part of emergency management BC's central coordination committee charged with the operational response to events like earthquakes and tsunamis. They get assessment reports from the field from a variety of sources including first responders, municipal, federal, and crown agencies.
- In the case of last night's earthquake off Haida Gwaii, there are no other reports of any damage received, however, further assessments will be carried out during daylight hours.
- In the event of a significant spill, the Minister of Environment has the authority to declare an environmental emergency, and in so doing access the resources necessary to mount a response along with the authority to pursue cost recovery with the responsible party. The B.C. government could also apply for reimbursement from federal government emergency funds. State and federal response funding is also available in the United States.
- Responsibility for all spills rests with the spiller. The provincial Environmental Management Act establishes a polluter-pay model under which spillers are held accountable for costs associated with spills.
- The Ministry of Environment is committed to protecting British Columbia's coastal environmental resources from harmful oil spills from marine vessels, industrial facilities or inland sources.
- During a marine spill event, the ministry would, in conjunction with the Provincial Emergency Program, coordinate the response of all provincial agencies and provide the provincial on-scene command. The ministry response would be integrated with federal agencies, local governments, First Nations and other stakeholders. The Canadian Coast Guard is the lead federal agency for response to ship-source oil spills in marine waters.

- As has been widely reported BC is committed to a world class spill response model for any and all future pipeline projects based on five key principals. Those conditions not only lay out how our government is protecting our environment and our residents.

Background:

- The Ministry of Environment's 2010 operating budget for our spill response program, including oil spills, was approximately \$1 million. The 2011 budget is also \$1 million. In 2010 there were 12 full-time equivalent staff dedicated to spill response, and in 2011 there are 14. Staff and funding are strategically distributed across the province.

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

Hayes, Dana GCPE:EX

From: Johnston, Karen GCPE:EX
Sent: Tuesday, December 11, 2012 12:21 PM
To: Hayes, Dana GCPE:EX
Subject: FW: MEDIA- Vancouver Observer - Beth Hongs - -deadline noon today -- reordered as per Jim's suggestion -- pls review

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

From: Johnston, Karen GCPE:EX
Sent: Monday, November 19, 2012 1:38 PM
To: Hayes, Dana GCPE:EX
Subject: FW: MEDIA- Vancouver Observer - Beth Hongs - -deadline noon today -- reordered as per Jim's suggestion -- pls review

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

From: Standen, Jim ENV:EX
Sent: Sunday, October 28, 2012 9:59 AM
To: Johnston, Karen GCPE:EX; Hofweber, Jim E ENV:EX; Shoemaker, Wes ENV:EX
Cc: Murphy, Bernadette GCPE:EX
Subject: RE: MEDIA- Vancouver Observer - Beth Hongs - -deadline noon today -- reordered as per Jim's suggestion -- pls review

My suggested edits below:

- Jurisdiction for marine spills rests with the federal government. Operating under Transport Canada legislation, the Canadian Coast Guard is the lead federal agency for response to ship-source oil spills in marine waters.
- As has been widely reported BC is committed to working with the federal government to ensure BC has a world class spill response model for marine transport as articulated in the five key principals.
- During a marine spill event, the ministry would, in conjunction with the Provincial Emergency Program, coordinate the response of all provincial agencies and provide the provincial on-scene command. The ministry response would be integrated with federal agencies, local governments, First Nations and other stakeholders.
- In the event of a significant spill –marine or land-based, the Minister of Environment has the authority to declare an environmental emergency, and in so doing access the resources necessary to mount a response along with the authority to pursue cost recovery with the responsible party. The B.C. government could also apply for reimbursement from federal government emergency funds. State and federal response funding is also available in the United States.

- Responsibility for all spills rests with the spiller. The provincial Environmental Management Act establishes a polluter-pay model under which spillers are held accountable for costs associated with spills.
- Ministry of Environment environmental protection staff are part of emergency management BC's central coordination committee charged with the operational response to events like earthquakes and tsunamis. They get assessment reports from the field from a variety of sources including first responders, municipal, federal, and crown agencies.
- In the case of last night's earthquake off Haida Gwaii, there are no other reports of any damage received, however, further assessments will be carried out during daylight hours.

Background:

- The Ministry of Environment's 2010 operating budget for our spill response program, including oil spills, was approximately \$1 million. The 2011 budget is also \$1 million. In 2010 there were 12 full-time equivalent staff dedicated to spill response, and in 2011 there are 14. Staff and funding are strategically distributed across the province.

From: Johnston, Karen GCPE:EX

Sent: Sunday, October 28, 2012 9:49 AM

To: Standen, Jim ENV:EX; Hofweber, Jim E ENV:EX; Shoemaker, Wes ENV:EX

Cc: Murphy, Bernadette GCPE:EX

Subject: FW: MEDIA- Vancouver Observer - Beth Hongs - -deadline noon today -- reordered as per Jim's suggestion -- pls review

1. During a marine spill event, the ministry would, in conjunction with the Provincial Emergency Program, coordinate the response of all provincial agencies and provide the provincial on-scene command. The ministry response would be integrated with federal agencies, local governments, First Nations and other stakeholders. The Canadian Coast Guard is the lead federal agency for response to ship-source oil spills in marine waters.
2. In the event of a significant spill –marine or land-based, the Minister of Environment has the authority to declare an environmental emergency, and in so doing access the resources necessary to mount a response along with the authority to pursue cost recovery with the responsible party. The B.C. government could also apply for reimbursement from federal government emergency funds. State and federal response funding is also available in the United States.
3. Responsibility for all spills rests with the spiller. The provincial Environmental Management Act establishes a polluter-pay model under which spillers are held accountable for costs associated with spills.
4. As has been widely reported BC is committed to a world class spill response model for any and all future pipeline projects based on five key principals. Those conditions not only lay out how our government is protecting our environment and our residents.
5. Ministry of Environment environmental protection staff are part of emergency management BC's central coordination committee charged with the operational response to events like earthquakes and tsunamis. They get assessment reports from the field from a variety of sources including first responders, municipal, federal, and crown agencies.
6. In the case of last night's earthquake off Haida Gwaii, there are no other reports of any damage received, however, further assessments will be carried out during daylight hours.

Background:

- The Ministry of Environment's 2010 operating budget for our spill response program, including oil spills, was approximately \$1 million. The 2011 budget is also \$1 million. In 2010 there were 12 full-time equivalent staff dedicated to spill response, and in 2011 there are 14. Staff and funding are strategically distributed across the province.

From: Standen, Jim ENV:EX
Sent: Sunday, October 28, 2012 9:38 AM
To: Johnston, Karen GCPE:EX
Cc: Hofweber, Jim E ENV:EX; Shoemaker, Wes ENV:EX
Subject: Re: MEDIA- Vancouver Observer - Beth Hongs - -deadline noon today -- pls review suggested response

Karen,

Looks good but your sixth bullet I think (now that I have had a few minutes to mull it over) is the most important message, that being that response to tanker spills is the responsibility of the federal government and that is why we are looking to Canada to enhance capacity. From there we could go on to talk about our support role in the case of a tanker spill.

Jim

On 2012-10-28, at 9:32 AM, "Johnston, Karen GCPE:EX" <Karen.V.Johnston@gov.bc.ca> wrote:

Question: Does Minister Lake have any comment on whether the province is adequately prepared for possible oil tanker damage or spill as a result of earthquakes and tsunamis?

Suggested response: email following info to reporter:

7. The Ministry of Environment is committed to protecting British Columbia's coastal environmental resources from harmful oil spills from marine vessels, industrial facilities or inland sources.

Karen Johnston
Communications Director
Ministry of Environment
250 812 0495 (cell)

Hayes, Dana GCPE:EX

From: McLarty, Jennifer GCPE:EX
Sent: Tuesday, October 30, 2012 1:44 PM
To: GCPE EMBC Communications
Subject: Tsunami Warning Template

Hey team: Template rebuilt in the backend. Got changed on the fly Saturday.

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

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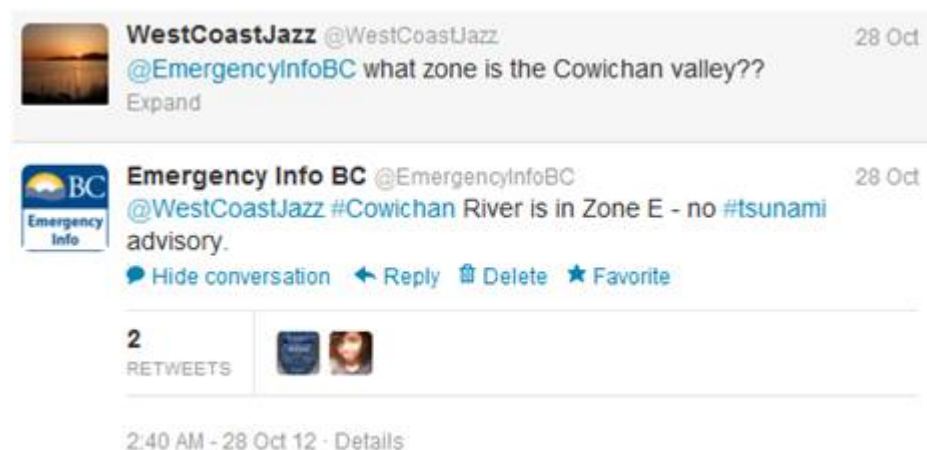
Hayes, Dana GCPE:EX

From: McLarty, Jennifer GCPE:EX
Sent: Tuesday, October 30, 2012 4:31 PM
To: Moore, Teron JAG:EX
Cc: GCPE EMBC Communications
Subject: RE: Community Breakdown By Tsunami Zone

Thanks Teron. How about we provide the community list and you organize by zone? Have started an excel sheet.

Intent isn't to provide risk level, just confirm what communities fall within what zones. (Conversation Example Below).

We also advise people to get in touch with local authorities for site specific information.



Cheers,

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

From: Moore, Teron JAG:EX
Sent: Tuesday, October 30, 2012 2:53 PM
To: McLarty, Jennifer GCPE:EX
Cc: GCPE EMBC Communications
Subject: RE: Community Breakdown By Tsunami Zone

Hi Jenn,

I have these, more detailed maps (with more community and FN community names).

I could still create a table for you, but it would take some time/effort and require an idea as to what size community you'd like on it.

Also, people should go to their local governments to find out their level of risk... the maps DO NOT reflect risk, except at the most general level. They are solely meant for notification of tsunami alerts. There is no tsunami modeling done for BC, except in Tofino, Ucluelet, Port Alberni and some areas of the CRD.

Let me know if these maps suffice.

Teron

From: McLarty, Jennifer GCPE:EX
Sent: Tuesday, October 30, 2012 14:03 PM
To: Moore, Teron JAG:EX
Cc: GCPE EMBC Communications
Subject: Community Breakdown By Tsunami Zone

Hi Teron!

In follow-up to Saturday's event, hoping you can help with a spreadsheet that identifies major communities within each tsunami zone. (Or maybe you already have one handy).

While the [map link](#) was useful, we still got peppered with the question: "What zone is (X) in? Is my community at risk?"

A spreadsheet would help us answer quickly during peak periods of activity.

Thanks kindly,
Jen

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

**CONFIDENTIAL
ISSUES NOTE**

Ministry of Justice

Date: Oct 31, 2012

Minister Responsible: Hon. Shirley Bond

**Earthquake & Tsunami
Warning in Haida Gwaii**

ADVICE AND RECOMMENDED RESPONSE:

- **We have a robust and multi-faceted emergency management system in British Columbia, one that is recognized globally for its efficiency and effectiveness.**
- **While much of the public and media focus has been on social media, it's critical to remember that it is just one part of what is a comprehensive notification system.**
- **Last weekend, we saw the leadership of local authorities up and down the coast as they activated their emergency action plans.**
- **I also believe our operational team at Emergency Management BC (EMBC) responded quickly and worked diligently to keep the public informed.**
- **This is not to suggest there aren't aspects of the response that can't be done better.**
- **Like all other significant seismic events, EMBC will analyze and debrief to identify any areas of potential improvement and ensure continuous improvement for our organization.**

IF ASKED about response time:

- **As is the case when any earthquake happens and there is the potential a tsunami may impact British Columbia's coast, the first official notification came from the West**

Coast and Alaska Tsunami Warning Centre (WCATWC) in Alaska.

- **This notification came directly to EMBC as well as to the many local governments, agencies, media and individuals who are registered with the WCATWC notification system.**
- **As is appropriate, many local authorities began acting as soon as they received this initial notification.**
- **As the next step to further increase awareness of this notification, EMBC staff then began using a variety of tools to relay this critical emergency information to local governments, media and key stakeholders.**
- **In fact, within 12 minutes the Emergency Coordination Centre (ECC) had began directly calling provincial emergency management staff and local authorities in the impacted regions.**
- **In addition, as for our overall response, Minister Bennett and other ministers were calling local mayors almost immediately to commit our government's support for anything they needed.**
- **Our first priority in these situations is to contact first responders and those who will lead the local emergency response, and then to let them take over and decide how best to contact the citizens of their communities.**

IF ASKED about online response:

- **The staff behind our @EmergencyInfoBC twitter feed will always be working to find that right balance between accuracy and timeliness in how we post social media updates.**

- **At the end of the day, the fact remains – if Mother Nature has let you know there is a problem, please don't wait for your cell phone to ring, or to get a text or Twitter message; move into emergency mode and activate your plan.**
- **I can assure you that Emergency Info BC staff engaged immediately and reached out to acquire trusted, accurate information to relay to British Columbians**
- **I also understand that the Tsunami Warning Centre's website incurred technical issues that delayed our ability to confirm many details.**
- **In addition, as soon as one could technically be convened and experts made available to answer questions, we held a media conference call to provide updated information and the call's recording was posted online.**

KEY FACTS REGARDING THE ISSUE:

There were criticisms on the delay in information available online about the earthquake and tsunami alert. The EMBC online communication team (2 FTE's, unpaid overtime) were among the very first to respond to the event and self-deploy, however, it was 50 minutes before proper analysis of the information collected could be done and thereby relayed to the online public.

The timeline:

20:09 - West Coast Alaska Tsunami Warning centre Bulletin #1 notification to ECC
 20:10 - ECC called ECC supervisor to call in support as phone lines inundated
 20:21 - ECC notification to the EQ distribution list (internal stakeholders) of event
 20:24 - Provincial Duty Manager called by ECC
 20:33 - Provincial Duty Manager arrived at PECC
 20:48 - First online post by social media team
 21:05 - EMBC PENS #1 notification
 21:20 - EMBC joins WCATWC conference call #1
 22:24 - EMBC PENS #2 notification
 22:30 - EMBC joins WCATWC conference call #2

23:07 - EMBC PENS #3 notification
23:07 - PECC SitRep#1
23:30 - EMBC joins WCATWC conference call #3
23:30 - CCG call
23:36 - EMBC PENS #4 notification
00:07 - PECC SitRep #2
02:24 - PECC SitRep #3
03:03 - EMBC PENS #5 notification

Roughly 30 tweets occurred beginning at 20:48 pm

Eleven tsunami bulletins were issued by WCATWC for this event. Based on this information, EMBC has issued five tsunami notification bulletins through the Provincial Emergency Notification System (PENS) to emergency management stakeholders and the media. A total of approximately 4800 voice calls, 4500 e-mail and 1600 faxes were issued. Some of these calls were reportedly delayed due to congestion and potentially because of power and telecom outages.

The Provincial Emergency Notification System (PENS) is the primary method of notification to designated parties within the coastal communities affected by the tsunami warning. Emergency Info BC is a public facing mechanism for information sharing of confirmed, accurate information through online channels.

EARTHQUAKE BACKGROUND

An earthquake of magnitude 7.7 (originally determined to be 7.1) occurred off the coast of Sandspit BC at 2004 hours October 27, 2012. An initial tsunami warning for the coastal areas of BC from the north tip of Vancouver Island to Alaska (including the North Coast and Haida Gwaii, as well as Bella Bella, Bella Coola, and Shearwater) was issued by the National Weather Service West Coast Alaska and Tsunami Warning Centre a short time later. The outer west coast of Vancouver Island (from Cape Scott to Port Renfrew and Juan de Fuca Strait from Jordan River to Greater Victoria including the Saanich Peninsula) were subsequently placed under a tsunami advisory.

Three Provincial Regional Emergency Operations Centres (PREOCs) were activated: Terrace, Prince George, and Victoria with EMBC staff and TEAMS members in attendance. The Provincial Emergency Coordination Centre (PECC) activated with 13 EMBC staff, three TEAMS members and a Provincial Emergency Radio Communications System (PERCS) amateur radio volunteer in attendance.

Local authority emergency operations centres (EOCs) were activated in:

- Prince Rupert

- Queen Charlotte City
- Masset:
- Port McNeill
- Skidegate
- Kincolith (Nisga'a)
- Port Hardy
- Bella Coola
- Bella Bella

Gleeson, Kelly T GCPE:EX

From: Government of British Columbia [GCPE.News@gov.bc.ca]
Sent: Wednesday, October 31, 2012 2:19 PM
To: GCPE Minis
Subject: A multi-faced earthquake and tsunami response

OPINION-EDITORIAL

A multi-faced earthquake and tsunami response

By Shirley Bond
Minister of Justice
Oct. 31, 2012
(796 words)

VICTORIA - Saturday night's earthquake near Haida Gwaii serves as a reminder to all of us just how important it is to be prepared for emergencies. In the days since this event, a number of questions and concerns have come forward around how and when communities received tsunami information from the B.C. government.

We have a robust and multi-faceted emergency management system in British Columbia, one that is recognized globally for its efficiency and effectiveness. While much of the public and media focus has been on social media, it's critical to remember that it is just one part of what is a comprehensive notification system.

I know that last weekend, in response to the earthquake, the system worked well at the local-authority level and our operational team at Emergency Management BC (EMBC) responded quickly and worked diligently to keep the public informed. This is not to suggest there aren't aspects of the response that can't be done better.

On Saturday, as is the case when any earthquake happens and there is the potential a tsunami may impact British Columbia's coast, the first official notification came within minutes from the West Coast and Alaska Tsunami Warning Centre (WCATWC) in Palmer, Alaska. The WCATWC sent this notification to EMBC as well as to the many local governments, agencies, media and individuals who are registered with the WCATWC notification system. As is appropriate, many local authorities began acting as soon as they received this initial notification.

As the next step to further increase awareness of this notification, EMBC staff then began using a variety of tools to relay this critical emergency information to local governments, media and key stakeholders. In fact, within 12 minutes the Emergency Coordination Centre (ECC) began directly calling provincial emergency management staff and local authorities in the impacted regions.

Local authorities are the first responders in B.C.'s communities and are required by legislation to have emergency plans in place that include procedures for relaying critical emergency information to residents and visitors.

The initial tsunami notification from the ECC also went to senior levels of government, representatives from the military and Public Safety Canada, RCMP, utilities and BC Ambulance. Last weekend, we saw the leadership of local authorities up and down the Coast as they activated their emergency action plans.

One of the other majors tools government uses to contact British

Columbians directly is the Provincial Emergency Notification System (PENS). This was added in 2006 as part of our earthquake and tsunami response plan and uses technology to systematically send tsunami notifications via phone, fax and email to thousands of first responders, local governments and the media.

Our government will do everything we can to notify as many people as possible. Our first priority is to contact first responders and those who will lead the local emergency response, and then to let them take over and decide how best to contact the citizens of their communities.

The staff behind our @EmergencyInfoBC Twitter feed will always be working to find that right balance between accuracy and timeliness in how we post social media updates, but at the end of the day, the fact remains - if Mother Nature has let you know there is a problem, don't wait for your cellphone to ring, or to get a text or Twitter message. Move into emergency mode and activate your plan. Especially if we're facing a large earthquake or other disaster, your Internet or cellphone access may be limited and it will be your initial response that saves your life.

The most important thing for people in coastal areas of B.C. to understand is that when the ground shakes - especially if it goes on longer than a minute - that's the first notification that a tsunami could impact the area. Anyone in coastal locations who feels strong shaking from an earthquake should assume that a tsunami may have been generated and should immediately move to high ground as soon as the shaking stops.

We must never forget that emergency preparedness begins with each of us as individuals. All British Columbians should have emergency plans and kits in place for themselves and their families. You can find out how to create your own emergency kit at: <http://goo.gl/fNFa3>

And all British Columbians should take the time to familiarize themselves with their community's emergency plan.

As with any large emergency response, I have asked EMBC to conduct a review of how our response and communications systems worked. It's only responsible that we continue to look at not only what went right, but more importantly, where we can improve and how we can better work with our emergency response partners in local communities to notify and protect our citizens.

I can reassure British Columbians that our government is committed to providing a world-class public safety response.

Connect with the Province of B.C. at: www.gov.bc.ca/connect

Gleeson, Kelly T GCPE:EX

From: tno@gov.bc.ca
Sent: Monday, October 29, 2012 8:18 PM
Subject: Scrum: Kryzanowski/Duffy: Earthquake response update

Out of Scope, s.3

Pages 38 through 45 redacted for the following reasons:

Out of Scope , s.3

Out of Scope, s.3

Hayes, Dana GCPE:EX

From: McLarty, Jennifer GCPE:EX
Sent: Monday, November 5, 2012 12:34 PM
To: Barrett, Lisa GCPE:EX
Subject: FW: Community Breakdown By Tsunami Zone
Attachments: Tsunami Zone Community List.xlsx

Hey. Confused. Where was this left? We'll organize the spreadsheet using the communities on the maps provided by Teron?

From: Moore, Teron JAG:EX
Sent: Wednesday, October 31, 2012 12:05 PM
To: Barrett, Lisa GCPE:EX
Cc: GCPE EMBC Communications
Subject: RE: Community Breakdown By Tsunami Zone

Hi Lisa,

I don't know what other communities you might want to add to this. Obviously, scope is an issue when it comes to this table.

I would suggest that, if you get an inquiry asking "what zone am I in" and the Tsunami maps that I forwarded don't specify the Zone, perhaps ask what is their closest larger community and try to identify the Zone on the map (or just forward them the Zone map link to search for themselves

http://www.pep.gov.bc.ca/hazard_preparedness/Tsunami_Preparedness_Information.html). If it is an area in the border areas (especially confusing around Zone D boundary and between Zone B and E) then please feel free to give me a call on my cell and I can try to figure it out.

In essence, if they are near a Zone border region, they would want to take notice of the Alert from the Zone closest to their location with the highest level of alert (better safe than sorry mentality).

Hope this helps,

Teron

From: Barrett, Lisa GCPE:EX
Sent: Wednesday, October 31, 2012 11:16 AM
To: Moore, Teron JAG:EX
Cc: GCPE EMBC Communications
Subject: RE: Community Breakdown By Tsunami Zone

Hey Teron. Here is my starting point. Hoping you can help us "break it down"! I may have inadvertently deleted some important communities – my geography kinda sucks. So if anything is obviously missing, please stick it back in!

Thanks again,
Lisa

From: McLarty, Jennifer GCPE:EX
Sent: Wednesday, October 31, 2012 8:23 AM
To: Moore, Teron JAG:EX
Cc: GCPE EMBC Communications
Subject: Re: Community Breakdown By Tsunami Zone

Thanks Teron!

Recognize everyone is super busy, but as soon as you're able. Don't think it will take too long.

Lisa is refining the list & will forward.

Cheers,

Jennifer McLarty

EMBC Social Media Unit

250 953-4099

Twitter: @emergencyinfobc

Sent from my iPhone

On 2012-10-31, at 8:09 AM, "Moore, Teron JAG:EX" <Teron.Moore@gov.bc.ca> wrote:

I'm happy to get out my trusted atlas and give it a go. What kind of timeline are you looking at?

Teron

From: McLarty, Jennifer GCPE:EX
Sent: Tuesday, October 30, 2012 16:31 PM
To: Moore, Teron JAG:EX
Cc: GCPE EMBC Communications
Subject: RE: Community Breakdown By Tsunami Zone

Thanks Teron. How about we provide the community list and you organize by zone? Have started an excel sheet.

Intent isn't to provide risk level, just confirm what communities fall within what zones.
(Conversation Example Below).
We also advise people to get in touch with local authorities for site specific information.

<image001.jpg>

Cheers,

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

Follow us on Twitter @EmergencyInfo BC

From: Moore, Teron JAG:EX
Sent: Tuesday, October 30, 2012 2:53 PM
To: McLarty, Jennifer GCPE:EX
Cc: GCPE EMBC Communications
Subject: RE: Community Breakdown By Tsunami Zone

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A spreadsheet would help us answer quickly during peak periods of activity.

Thanks kindly,
Jen

Jennifer McLarty | Social Media & Online Communications
Emergency Management BC | P: 250 953-4099

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