

Tsunami Preparedness Strategic Plan 2018-2020

Nuchatlaht Tribe

Mason Ducharme

1/24/2018

Introduction

On Tuesday, January 23rd, 2018, there was tsunami warning for Vancouver Island due to a 7.9 earthquake in Alaska. During this tsunami warning, there was a Telus outage which resulted in no phone or internet service in Oclucje from January 22nd, 2018 (12:00pm) to January 24th, 2018 (9:30am).

Because of this outage, Nuchatlaht Tribe did not receive a tsunami warning from EMBC. There was an Ehattesaht member that did come knocking on doors around 6:20am on the day of the tsunami warning to inform Oclucje residents about the earthquake and tsunami, after the tsunami warning was off.

The Tyee Ha'wiltch Walter Michael informed Mason Ducharme (Band Administrator) that a plan needs to be made to prepare for a tsunami. Mason Ducharme held a focus group with the Tyee Ha'wiltch and Nuchatlaht Tribe staff to get their input on a Tsunami Preparedness Strategic Plan. This is the final document that accounts for everyone's comments.

Vision

Nuchatlaht Tribe's tsunami preparedness and response is very quick, well equipped, well informed, communicates with the necessary people and organizations, organized, and most importantly, results in everyone surviving tsunamis.

Strengths Weaknesses Opportunities Challenges (SWOC) Analysis

<u>Strengths</u>	<u>Weaknesses</u>
<ul style="list-style-type: none"> • Close-knit community where everyone knows where each other is, and how to contact them • Have communication devices (VHFs, and Satellite Phones) • A nice mixture of night owls and early birds which is beneficial as someone is likely to be awake when a tsunami warning is issued • Experience of some community members in dealing with tsunami warnings. I.e., some members were alive during the 1964 tsunami • The animals on the reserve can detect when a natural disaster occurs. I.e, during the January 23rd, 2018 Tsunami Warning, the dogs on the reserve were barking like crazy • Members have the ability to live off the land due to their experience as hunters, fisherman, and gatherers of vegetation • The Band Administrator and the Tyee Ha'wiltch are subscribed to the EMBC alert system which means that they receive a call and email when a tsunami warning is issued in the territory • There is Telus high speed internet in Oclucje • There are generators for each household 	<ul style="list-style-type: none"> • Don't utilize the communication resources efficiently (VHF Radios, and Satellite Phone) • Insufficient Tsunami Warning Drills • Reactive, not proactive • No Tsunami Preparedness Plan in place • Unfamiliar with the Community Emergency Plan (2010) • Not enough members trained in First Aid (especially, First Aid Level 3) • Misplaced Survival Kits • Members do not have go-bags ready and/or the bags are not easily accessible • Band buildings (infrastructure) and band houses • Houses 2, 3, and 4 are in the tsunami zone • The water treatment centre is in the tsunami zone • There are no specific tsunami preparedness supplies for elders and babies

<u>Opportunities</u>	<u>Challenges</u>
<ul style="list-style-type: none"> • Identifying the muster point • Ongoing maintenance of the muster point • Seeking an addition to reserve at a higher elevation to ensure that there is no tsunami impact risk • Making the buildings earthquake proof • Getting a sea can to store tsunami preparedness items • Finding funding to implement this Tsunami Preparedness Strategic Plan • Practicing safety exercises (i.e, Tsunami Drills) semi-annually • Buying survival kits • Deliver First Aid Training in Olucje • Working with neighbours to create a regional response strategy • Buying VHF's for each household • Getting Xplorenet for the Health Clinic • Setup a Communications Centre in the Health Clinic • Delivering a community workshop on Tsunami Preparedness • Setting aside jarred fish for Tsunami Preparedness • Building a trail/road to reach the muster station • Attaching a hose or tap to the water reservoir tank 	<ul style="list-style-type: none"> • Only one road in and out of Olucje • Olucje's two bridges could break during the tsunami • Funding is allocated on a competitive basis – it'll likely be more difficult to secure funding after the January 23rd, 2018 Alaskan Earthquake • The Telus internet and Phones go out often in Olucje • The power goes down in Olucje often • Olucje is semi-isolated • The Zeballos Forest Road is consistently in rough shape

Strategic Issues

Strategic issues are the questions that an organization wants to answer in a strategic plan. These are the strategic issue questions for this plan:

1. Do we have enough food during a tsunami?
2. Do we have the means to communicate during a tsunami?
3. Can we survive a tsunami for 7 days?
4. Do we have the means to leave Oclucje during a tsunami?
5. Where will our muster station be located?
6. Do we have everyone's phone numbers?
7. Do we have the funding to implement this plan?
8. How can we accommodate our elders and children in reaching the muster station?
9. How can we ensure the safety of the muster station and camp?
10. How can we implement the community emergency plan (2010)?

Goals

Strategic Issue	Goals
Do we have enough food during a tsunami?	To have enough food during a tsunami
Do we have the means to communicate during a tsunami?	To have the means to communicate during a tsunami
Can we survive a tsunami for 7 days?	To survive a tsunami for 7 days
Do we have the means to leave Oclucje during a tsunami?	To have the means to leave Oclucje during a tsunami
Where will our muster station be located?	To identify a muster station location
Do we have everyone's phone numbers?	To have everyone's updated phone numbers
Do we have the funding to implement this plan?	To secure funding to implement this plan.
How can we accommodate our elders and children in reaching the muster station?	To accommodate our elders and children in reaching the muster station
How can we ensure the safety of the muster station and camp?	To ensure the safety of the muster station and camp
How can we implement the community emergency plan (2010)?	To implement the community emergency plan (2010)

Objectives

Goals	Objectives
To have enough food during a tsunami	There is enough food to last 7 days for 30 people on an annual basis, not exceeding the cost of \$4,000.00.
To have the means to communicate during a tsunami	All of the communication devices are setup immediately, and new equipment is purchased, not exceeding the cost of \$3,000.00.
To survive a tsunami for 7 days	To have the essential shelter, food, heating, medicine, communication, and training, not exceeding a cost of \$10,000.00.
To have the means to leave Oclucje during a tsunami	To add one more trail/road to leave Oclucje and head to the muster station by 2018, not exceeding a cost of \$30,000.00.
To identify a muster station location	To have a muster station located by 2018
To have everyone's updated phone numbers	To have an updated on-reserve contact list by 2018
To secure funding to implement this plan.	To secure \$XXX,XXX.XX in funding to implement this plan by 2019
To accommodate our elders and children in reaching the muster station	To have every child and elder reach the muster station 30 minutes after the tsunami evacuation alert
To ensure the safety of the muster station and camp	To have zero vandalism and theft incidents at the muster station
To implement the community emergency plan (2010)	To have a community meeting workshop to review the community emergency plan binder material on an annual basis

Strategies

Objectives	Strategies
There is enough food to last 7 days for 30 people on an annual basis, not exceeding the cost of \$4,000.00.	Research how much food is needed and the cost and options
	Purchase hunting and fishing tools to use during tsunami evacuations
	Create a survey to ask the on-reserve members what food will be eaten during the tsunami evacuation
	Distribute the survey to the on-reserve members
	Purchase food and water for the tsunami evacuation
	Process foodfish, clams and mowich to set aside for the tsunami evacuation
	Store the food and water
	Inspect the quality of the tsunami evacuation food

Objectives	Strategies
All of the communication devices are setup immediately, and new equipment is purchased, not exceeding the cost of \$5,000.00.	Setup Xplorenet in the Health Clinic Purchase a new tsunami siren Find a tv for the health clinic Setup satellite tv in the health centre Purchase a VHF radio for each house Conduct a communications devices inventory Convert the health clinic into a communications centre Setup all VHF radios and satellite phones To train Bryan Michael in the use of VHF radios
To have the essential shelter, food, heating, medicine, communication, and training, not exceeding a cost of \$10,000.00.	To purchase three canvas tents Buy two sea cans to use as tsunami preparation storage To pack wood to the muster station To get First Aid Level 1 Training Delivered in Oclucje To get First Aid Level 2 Training delivered in Oclucje To get First Aid Level 3 Training delivered in Oclucje To order a survival kit for each house
To add one more trail/road to leave Oclucje and head to the muster station by 2018, not exceeding a cost of \$30,000.00.	To get permission from BC to build a trail to the muster station from Oclucje To ask Tony Wong to where a trail can be built without it affecting the water lines To flag the trail area for cutters To hire people and companies to cut the trail/road Create a maintenance plan for the trail/road
To have a muster station located by 2018	To identify potential muster stations To propose potential muster station locations to BC Create a construction plan for the muster station Research the cost of an excavator to purchase
To have an updated on-reserve contact list by 2018	Go house to house confirming everyone's contact information and if they are willing to share their contact information Distribute the contact information sheet through email and via physical paper
To secure \$XXX,XXX.XX in funding to implement this plan by 2019	Research funding opportunities specific to emergency preparedness Apply for funding
To have every child and elder reach the muster station 30 minutes after the tsunami evacuation alert	To purchase a UTV to transport elders and children To identify a support person for each household that has an elder(s) or child(ren) To practice tsunami drills

Objectives	Strategies
To have every child and elder reach the muster station 30 minutes after the tsunami evacuation alert (Continued...)	To ensure spare jerry cans are always available to fill up the UTV
	Create a list of items needed in a go-bag for each household
	Host a tsunami awareness workshop
	Build a tsunami muster station sign
	Build a community bulletin board near the entrance of Oclucje used to inform people that there is a tsunami warning and that everyone is at the muster station
To have zero vandalism and theft incidents at the muster station	Buy trail cams
	Build a sign stating that the area is under surveillance
	Monitor the muster station on a weekly basis
	Build a fence around the muster station
To have a community meeting workshop to review the community emergency plan binder material on an annual basis	Review the Community Emergency Plan (2010) Binder
	Create the presentation materials
	Organize the meeting
	Present the presentation materials at the meeting

Implementation Plan

Strategy	Person(s) Responsible	Timeline	Budget
Research how much food is needed and the cost and options	Audrey Smith	February 2 nd , 2018	n/a
Create a survey to ask the on-reserve members what food will be eaten during the tsunami evacuation	Mason Ducharme and Audrey Smith	January 26 th , 2018	n/a
Purchase hunting and fishing tools to use during tsunami evacuations	Mason Ducharme	March 2018	\$1,500.00
Distribute the survey to the on-reserve members	Bryan Michael	January 29 th , 2018	n/a
Purchase food and water for the tsunami evacuation	Audrey Smith	Summer 2018	TBD
Process foodfish, clams and mowich to set aside for the tsunami	Community	Ongoing	n/a

Strategy	Person(s) Responsible	Timeline	Budget
evacuation			
Store the food and water	Stanley Harry	Summer 2018	n/a
Inspect the quality of the tsunami evacuation food	Audrey Smith	Annually ongoing	n/a
Setup Xplorenet in the Health Clinic	Mason Ducharme	January 26 th , 2018	TBD
Purchase a new tsunami siren	Mason Ducharme	April 2018	\$2,000.00
Find a tv for the health clinic	Mason Ducharme	January 30 th , 2017	\$200.00
Setup satellite tv in the health centre	Mason Ducharme and Stanley Harry	February 2018	n/a
Purchase a VHF radio for each house	Audrey Smith	February 2018	\$3,000.00
Conduct a communications devices inventory	Karenn Bailey	February 2018	n/a
Convert the health clinic into a communications centre	Mason Ducharme and Stanley Harry	March 2018	n/a
Setup all VHF radios and satellite phones	Mason Ducharme and Stanley Harry	February 2018	n/a
To train Bryan Michael in the use of VHF radios	External Trainers	April 2018	n/a
To purchase three canvas tents	Mason Ducharme	2019	\$10,000.00
Buy two sea cans to use as tsunami prep storage	Mason Ducharme	2019	\$20,000.00
To pack wood to the muster station	Stanley Harry	Ongoing	n/a
To get First Aid Level 1 Training Delivered in Oclucje	Mason Ducharme	April 2018	n/a
To get First Aid Level 2 Training delivered in Oclucje	Mason Ducharme	May 2018	n/a
To get First Aid Level 3 Training delivered in Oclucje	Mason Ducharme	June 2018	n/a
To order a survival kit for each house	Mason Ducharme	April 2018	\$3,200.00
To get permission from BC to build a trail to the muster station from	Karenn Bailey	February 2018	n/a

Strategy	Person(s) Responsible	Timeline	Budget
Oclucje			
To ask Tony Deo to where a trail can be built without it affecting the water lines	Mason Ducharme	February 2018	n/a
To flag the trail area for cutters	Stanley Harry	March 2018	n/a
To hire people and companies to cut the trail/road	Mason Ducharme	Summer 2018	\$30,000.00
Create a maintenance plan for the trail/road	Mason Ducharme and Stanley Harry	Summer 2018	n/a
To identify potential muster stations	Karenn Bailey	February 2018	n/a
To propose potential muster station locations to BC	Karenn Bailey	February 2018	n/a
Create a construction plan for the muster station	Karenn Bailey	March 2018	n/a
Research the cost of an excavator to purchase	Karenn Bailey and Stanley Harry	March 2018	n/a
Go house to house confirming everyone's contact information and if they are willing to share their contact information	Bryan Michael	Semi-annually starting on January 26, 2018	n/a
Distribute the contact information sheet through email and via physical paper	Bryan Michael	February 2 nd , 2018	n/a
Research funding opportunities specific to emergency preparedness	Mason Ducharme	February 2018	n/a
Apply for funding	Mason Ducharme	March 2018	n/a
To purchase a UTV to transport elders and children	Mason Ducharme and Karenn Bailey	Summer 2018	n/a
To identify a support person for each household that has an elder(s) or child(ren)	Community and Bryan Michael	February 2018	n/a
To practice tsunami drills	Nuchatlaht Tribe Staff	Ongoing	n/a

Strategy	Person(s) Responsible	Timeline	Budget
To ensure spare jerry cans are always available to fill up the UTV	Stanley Harry	Ongoing	n/a
Create a list of items needed in a go-bag for each household	Helena Michael	February 2018	n/a
Host a tsunami awareness workshop	Karenn Bailey and Mason Ducharme	Ongoing, the first one to occur on February 2018	n/a
Build a tsunami muster station sign	Karenn Bailey	March 2018	\$200.00
Build a community bulletin board near the entrance of Oclucje used to inform people that there is a tsunami warning and that everyone is at the muster station	Stanley Harry	February 2018	\$1,000.00
Buy trail cams	Mason Ducharme	February 2018	\$400.00
Build a sign stating that the area is under surveillance	Karenn Bailey	February 2018	\$200.00
Monitor the muster station on a weekly basis	Stanley Harry	Ongoing	n/a
Build a fence around the muster station	Mason Ducharme	Summer 2018	\$2,000.00
Review the Community Emergency Plan (2010) Binder	Helena Michael and Mason Ducharme	February 2, 2018	n/a
Create the presentation materials	Helena Michael and Mason Ducharme	February 2018	n/a
Organize the meeting	Mason Ducharme	February 2018	n/a
Present the presentation materials at the meeting	Mason Ducharme	March 2018	n/a