

Centennial Pool Commission

December 5, 2017

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Summary of the Action Plan for January to March 2018 as prepared by Commission Chair.

The Pool Commission did not have quorum at the final meeting of the year, so we set an action plan that will be sent out to all commissioners.

Appointment of Pool Commissioners for 2018: The following Commissioners are willing to let their name stand for the 2018. Joan Cole, Janice Kyle, Karen Landsdowne, Carol Thommsen, Connie Nygaard, Nicola Koroluk.

Russ Hilland regrets that he must step down from his role on the commission. The Commission Chair would like to acknowledge the contributions that Mr Hilland brought to the Commission.

The Pool Commission now has one position available. The Commission chair would recommend this position filled by a member of the Nuxalk Community, if possible.

January/February 2018:

- Review Pay policy, this includes creating a part time salary position for the pool manager.
- Review and submit Rates and Charges By-law 474. The Commission requests clarification on the correct By-Law for the Centennial Pool Rates and Charges By-Law. There are 2 versions on the CCRD Web Page 474 and 460. By-law 474 has the current rates.
- Review all job descriptions prior to March 1, 2018 and develop guidelines for the expectations of pool staff.
- Set up a meeting with the EDC to apply for funding to provide programs at the pool
- Set up meeting with Operations Manager to schedule for pool opening.

March 2018

- Review Pool Policies
 - i. A-(b) Facilities Inspection Policy – Centennial Pool
 - ii. Policy (a) Centennial Pool – Emergency Procedures
 - iii. Policy 2 Pool Closure Due to Incremental Weather
 - iv. Policy A 12(d) Centennial Pool Children Six Years and Under
 - v. Policy A 1(c) Centennial Pool Payment During Training
- Work with the CAO to create a policy or guideline for Volunteers working at the pool.
- Work with the CAO and CFO to create a policy or guideline for Courses been taught at the pool by non-employees.

NEXT MEETING IS JANUARY 16 5:30 AT THE SCHOOL BOARD OFFICE

Board Meeting
DEC 14 2017
CCRD ITEM CC(g)



**CENTRAL COAST REGIONAL DISTRICT
EMERGENCY PROGRAM COORDINATOR
DECEMBER 2017 REPORT**

Board Meeting
DEC 14 2017
CCRD ITEM C(h)

DATE: December 11, 2017
TO: Chair Alison Sayers and Board of Directors
FROM: Bridget Horel, Community Economic Development Officer, EOC Director
Courtney Kirk, CAO, Emergency Program Coordinator
SUBJECT: **Emergency Program Coordinator December Report**

RECOMMENDATION:

- 1. THAT the Emergency Program Coordinator report, dated December 11th 2017, be received.**
-

CCRD EMERGENCY PROGRAM COORDINATOR HIGHLIGHTS

Sub-regional Interagency Emergency Council – Bella Coola Valley

An initial meeting of the Bella Coola Valley Interagency Emergency Council was held on November 21st 2017. Following to this report, please find the meeting minutes. A second meeting has been scheduled for December 13th 2017.

The CCRD has requested representation from several local and provincial agencies. Provincial representatives will be joining in person and by conference line and include staff from Emergency Management BC, Ministry of Environment, Ministry of Forest Lands and Natural Resource Operations and Rural Development, Ministry of Indigenous Relations and Reconciliation, and Ministry of Citizen’s Services. M.L.A. and Parliamentary Secretary for Emergency Management Jennifer Rice will also attend.

In order to best use the knowledgeable group attending the meeting, the conversation will include a broader range of topics for discussion including, but not limited to: emergency management training, emergency management plans, deployment of provincial staff during emergencies, connectivity initiatives impacting emergency communications, the Jake Shearer incident, and the proposed Indigenous Marine Response Centre in Heiltsuk Territory (executive summary attached).

Administration has postponed developing suggested revisions for the *Emergency Measures Regulatory Bylaw no. 325, 2000* for the Board until the New Year. This will allow primary focus on the upcoming in-community visit of EMBC officials and will provide opportunity to begin the groundwork to establish a similar sub-regional committee approach for the outer-coast that will likewise inform the suggested bylaw revisions.

Town Hall

A Bella Coola community Town Hall meeting is scheduled for December 13th, 2017, with MLA Jennifer Rice, Parliamentary Secretary for Emergency Management. This town hall is being

held primarily to address concerns about flooding in the Bella Coola Valley, and provides an opportunity for the public to ask questions of representatives from several provincial ministries and local government.

Emergency Communications Interagency Meeting – Regional Focus

A standalone meeting for those directly engaged (or interested in being directly engaged) in addressing some of the emergency communications vulnerabilities, particularly as they relate to connectivity, will be held on the morning of December 14th. The meeting is hoped to precipitate better information flow and inter-governmental cooperation toward achieving more secure and enhanced connectivity throughout the region. Provincial, CCRD, Telus, Economic Development Advisory Committee and community-at-large officials plan to attend.

Emergency Operations Essentials Training

An EMBC sponsored training session for EOC Essentials has been confirmed for January 30th and 31st. Staff at EMBC has offered to potentially expand the scheduled training with a C.O.R.E. offering. Details will be forthcoming at the Bella Coola Valley Interagency Emergency Council meeting on December 13, 2017. The CCRD is working with Nuxalk College to deliver the training, which will be held in Bella Coola.

2017 Wildfire Recovery

The Wildfire Recovery Manager is close to finalizing an Administration approved recovery work plan for submission to EMBC as per the provincial wildfire recovery framework requirements. Details of the plan will be forthcoming in the New Year.

CCRD staff have attended debriefing sessions specific to the 2017 wildfires response, as reported on elsewhere in the December 2017 Agenda Package.

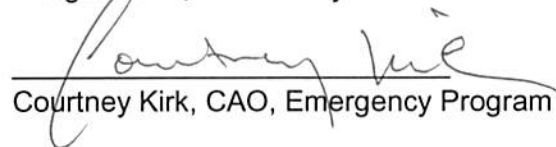
Emergency Management Plan Updates

Administration continues to work with Frontier Management Consulting toward updating the sub-regional emergency plans. Anticipated completion of the plan revisions is postponed to February 2018 to allow for sub regional committee development in the outer-coast mirroring efforts in the Bella Coola Valley. One of the anticipated functions of the new committees is reviewing the sub regional plans, as well as fostering sub regional plan implementation should a disaster arise.

Respectfully submitted,



Bridget Horel, Community Economic Development Officer, EOC Director



Courtney Kirk, CAO, Emergency Program Coordinator



CENTRAL COAST REGIONAL DISTRICT

Encompassing the Coastal Communities of Ocean Falls, Bella Bella, Denny Island, Oweekeno and the Bella Coola Valley

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An Invitation from CCRD Chair Alison Sayers, Director Area C

Town Hall, December 13, 2017, 7 pm, Moose Hall

On behalf of the CCRD Board of Directors, I am pleased to invite our entire community to a Town Hall meeting on December 13th, 2017, with our MLA Jennifer Rice, Parliamentary Secretary for Emergency Management.

This town hall is being held primarily to address concerns about flooding in the Bella Coola Valley, and is a golden opportunity to ask any questions you might have of representatives from several provincial ministries and local government.

It is the intention of all your CCRD elected officials that this town hall will be an important step in deepening our understanding, perspective, and unity as a community. This is critically needed right now as we advocate to the province to address the needs of our region, and as we all learn together how to adapt to climate change and increasing natural disasters.

Let's fill Moose Hall, ask those hard questions, and show the Province of BC the high level of concern we all have for this issue.

Date: **Wednesday, 13 December 2017**

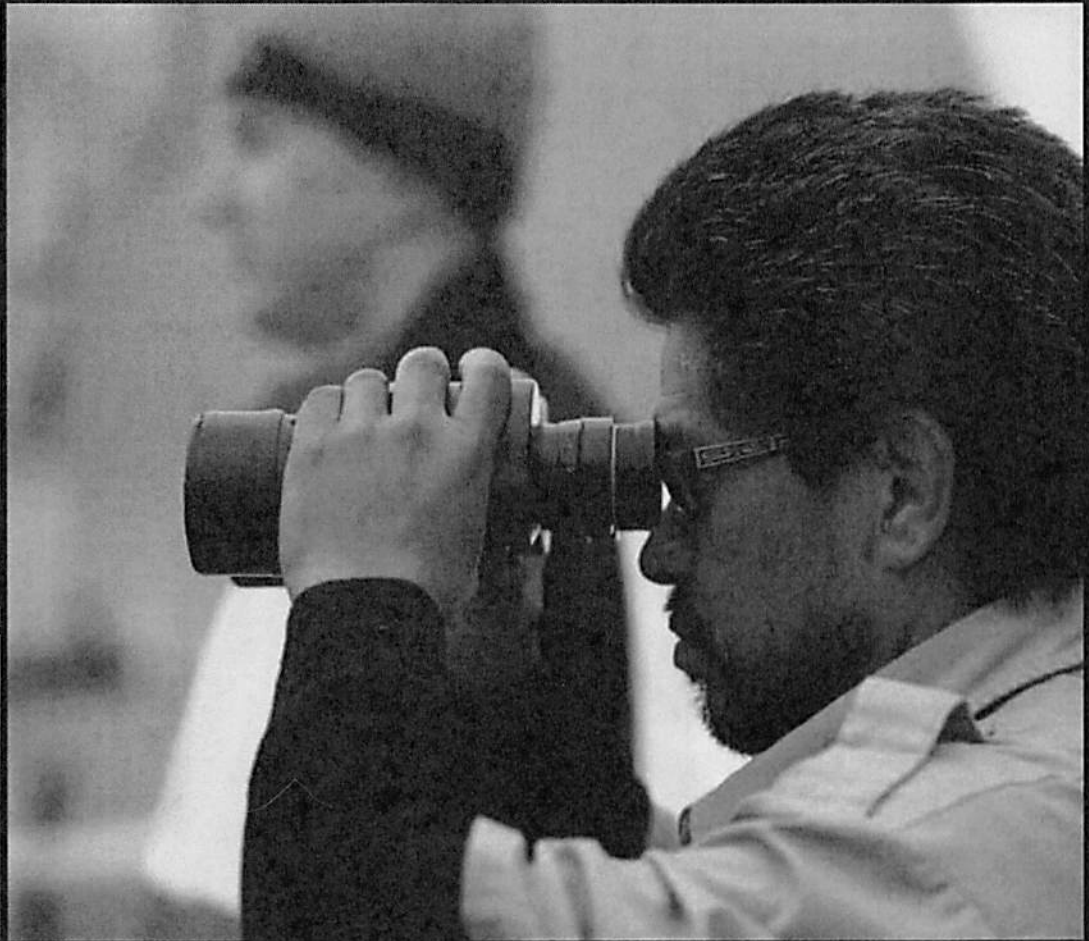
Time: **7 pm**

Location: **Moose Hall**

See you there!

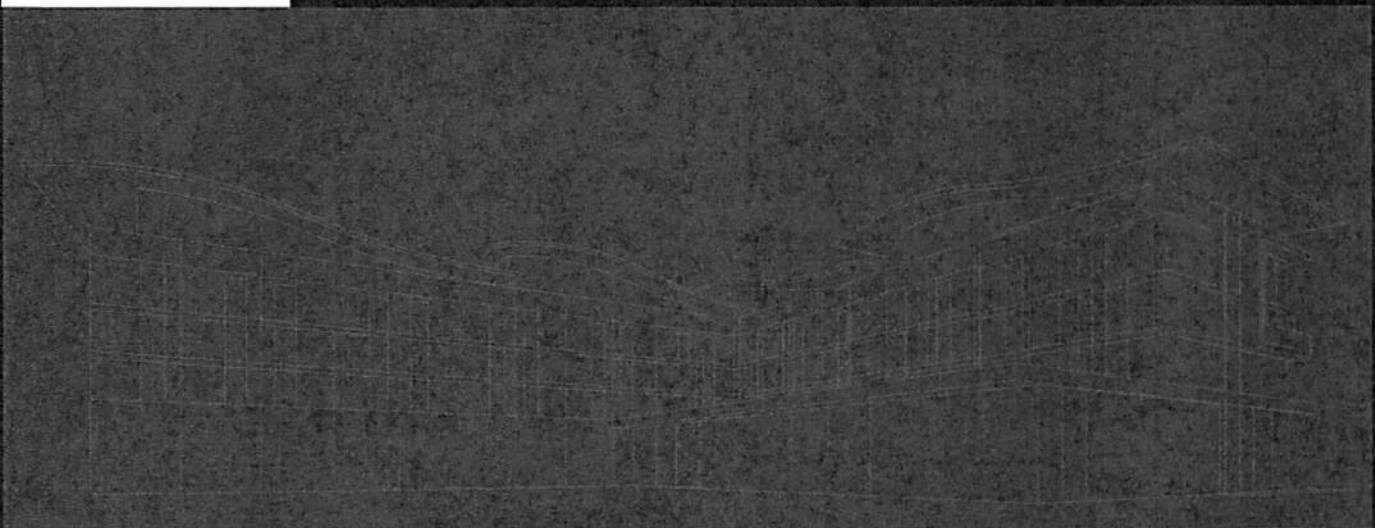
Sincerely,

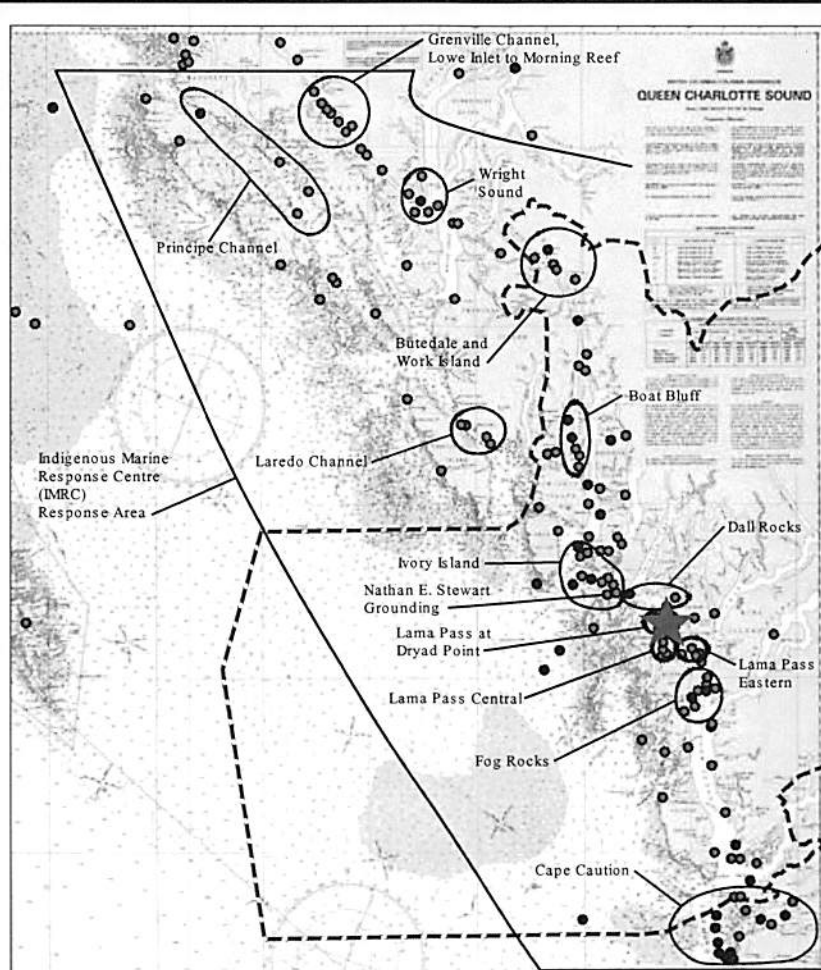
Alison Sayers



HEILTSUK TRIBAL COUNCIL
INDIGENOUS MARINE
RESPONSE CENTRE (IMRC)
Creating a World-Leading Response System

NOVEMBER 2017



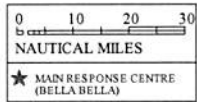


HEILTSUK TRADITIONAL
TERRITORY BOUNDARY - - - - -

ALL GROUNDINGS/
NEAR GROUNDINGS ●

BARGES - GROUNDINGS/
NEAR GROUNDINGS ●

CHOKE POINT IDENTIFIER ○



PPA GROUNDINGS / NEAR GROUNDINGS WITH IMRC IDENTIFIED CHOKE POINTS

REPORT PREPARED BY





Λάχνηςλητς Μίμάλυαλα

“Standing Together”

Though the Heiltsuk Nation has long warned of the threat of oil spills on our coast, our experience responding to the *Nathan E. Stewart* oil spill was a devastating wake-up call.

We watched diesel pour into our waters and onto the shores of our ancient village site of Q'úqvai – onto clam gardens abundant with clams, other shellfish, and near shore fish species that our ancestors stewarded for millennia and our community relies on for food sustenance. Many hours passed before spill response equipment arrived.

When it did, equipment that was not broken was poorly deployed and failed to contain the spill. Beyond that, safety instructions and gear for Heiltsuk first responders exposed to diesel and dangerous marine conditions were lacking or altogether absent. Especially in the early hours of the response, there was confusion on all sides over who was in charge.

Throughout the chaos of the spill response, marine traffic continued around us, unabated, forcing us to acknowledge the likelihood of future disasters and the necessity for a solution.

Weeks after the spill, we commissioned this report and asked experts to:

- assess the likelihood and distribution of various types of marine incidents on the central north coast;
- examine best spill response practices around the world; and, ultimately,
- develop a plan for an Indigenous Marine Response Centre to vastly improve marine safety and safeguard the environment.

The report that follows describes a truly world-leading Indigenous Marine Response Centre that would respond to incidents in Heiltsuk territory and beyond within a few hours with a fleet well-equipped to prevent disasters and to offer the best clean-up efforts local knowledge and technology allow.

From Ahousaht with the *Leviathan II* to Gitga'at with the *Queen of the North* to Heiltsuk with the *Nathan E. Stewart*, Indigenous communities have shown that we are and will continue to be the first responders to marine incidents in our waters. The time has come to meaningfully develop our capacity to properly address emergencies in our territories as they arise.

This report corresponds with the Government of Canada's National Oceans Protection Plan, which, likewise, recognizes the need to put Indigenous communities at the forefront of efforts to protect oceans and the communities that rely on them. This report also shares the plan's number one priority: the creation “of a world-leading marine safety system that improves responsible shipping and protects Canada's waters, including new preventive and response measures.”

We are pleased to share this report with our community, our neighbouring nations, the federal government, and other partners. We look forward to standing together with you all to turn this vision to reality by delivering an Indigenous Marine Response Centre in Heiltsuk territory that will meaningfully improve the safety of our waters and the protection of the environment.

Sincerely,

Chief Councillor Marilyn Slett
Heiltsuk Tribal Council

Hereditary Chief Harvey Humchitt
Heiltsuk Nation

EXECUTIVE SUMMARY

BACKGROUND

As was demonstrated with the *Nathan E. Stewart* oil spill response efforts, the current oil spill response capability on the central coast of BC is inadequate, slow, and unsafe.

This report highlights where the need for emergency response capability along the central and north coast of British Columbia is most urgent and outlines a plan for an Indigenous Marine Response Centre (IMRC) near Bella Bella to address this need.

STUDY DESIGN

The study area of interest for this report is spatially defined as from the north end of Vancouver Island to the north end of Principe Island and to Morning Reef in Grenville Channel (i.e., the “response area”).

Data considered in this report includes but is not limited to:

- vessel transit data from Canadian Coast Guard Marine Communications and Transit Services Data;
- incident data from the Transportation Safety Board and Pacific Pilotage Authority; and
- a global review of best practices and guiding principles regarding safety, incident prevention, and environmental protection.

What follows is a discussion of results and associated recommendations.

RESULTS & PROPOSAL

The IMRC proposed in this document strives for excellence in oil spill clean-up *and* prevention.

Unlike typical spill response for the central coast, which is only deployed once a spill occurs, the IMRC will respond to a wide variety of marine incidents that could lead to oil contaminating the environment in the response area such as those classified as groundings, fires, bottom contacts, and capsizes.

The IMRC will be located on Denny Island across from Bella Bella, with satellite stations throughout the central coast.

The IMRC will be prepared to respond at a moment’s notice, and will consist of crew who are stationed at the centre, who live in the area, and who are familiar with the region, waterways, and weather conditions.

Incident response times

Approximately three incidents occur per month in the study area, with 80% of all incidents to date having occurred within Heiltsuk Territory.

In this scenario, 100% of incidents in the study area can be reached in five hours or less with fast response vessels travelling at 30 knots from Bella Bella.

The proposed site for the IMRC is the former BC Packers Site on Denny Island. It is a large waterfront property with sufficient space to house the land-based operation and mooring facilities for a fleet of response vessels. This site is conveniently located adjacent to the existing Canadian Coast Guard base, allowing for easy communication and co-operation between the two organizations.

Establishing the IMRC at the BC Packers site ensures:

- 40%-50% of incidents will be responded to within **1 hour**;
- 75% of incidents will be responded to within **2 hours**;
- 80% of incidents will be responded to within **3 hours**; and
- 100% of incidents will be responded to within **5 hours**.

Other jurisdictions in the world have published response times of 3 to 11 hours, with an average of 7.5 hours. The IMRC response time of 5 hours or less falls well within the current definition of “world-leading” response times.

Fleet & equipment

Based on expert advice and consultation with suppliers around the world, Sections 5 and 7 identify the vessels and supplies that are necessary and suitable for rapid and comprehensive response in BC's central and north coast.

In brief, the IMRC's effectiveness hinges on a fleet of fast response vessels capable of oil clean-up and containment, and a tug and barge system providing storage and additional oil spill clean-up capabilities. The barge – equipped with a range of safety gear, clean-up equipment, provisions, and living quarters – ensures the response team is able to work on site for up to three weeks without outside support.

Currently, there do not appear to be booms and skimmers available that would perform well in central coast marine conditions.

Inshore booms and harbour booms, like much of what was deployed (and failed) in the *Nathan E. Stewart* response – simply do not stand up to the large waves and fast currents typical of central coast waters. Until specialized equipment is developed for containment in fast-flowing waters, offshore booms would make up a predominate part of the IMRC boom inventory, along with high strength Spectra fibre rope and high load anchors on the shoreline.

The development and testing of new and innovative oil boom designs is urgently needed. The IMRC will seek industry partnerships and local knowledge to help develop and field test designs, materials, and deployment on an on-going basis.

Staff & crew

The IMRC will employ 37 full time staff and crew, with vessel operators and response centre workers conducting shift work.

All crew will undergo a comprehensive training program, reviewed every three years (approximately) to ensure it is up to date. Prerequisites for crew will be that they live in the area and are familiar with the region, waterways, and weather conditions.

Costs

The annual operating cost of the IMRC is estimated to be \$6.8 million.

Start-up costs include:

- Development of an IMRC with Interim Response Capability: \$99.8 M
- Three Satellite Storage Depots: \$11.7 M

To enable response to incidents while the construction of the land and marine infrastructure is being completed, interim response capabilities can be put in place immediately. This includes the purchase of vessels and equipment, the recruitment and training of crew, and research and development to support immediate and future IMRC operations.

CONCLUSION

In light of the remote, challenging environment, this proposal for a Heiltsuk-led IMRC provides the closest option to an instantaneous response to incidents that could lead to an oil spill.

The IMRC builds on Heiltsuk's millennia-long tradition of environmental stewardship and leverages the best-available western and traditional knowledge. Together with the federal government, industry, and neighbouring nations, the IMRC represents an Indigenous-led response to vastly improve environmental protections and marine safety to the benefit of Heiltsuk, the central coast, British Columbia, and Canada.



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Encompassing the Coastal Communities of Ocean Falls, Bella Bella, Denny Island, Oweekeno and the Bella Coola Valley

BCV Emergency Management Service Providers
Initial Emergency Program Management Meeting Minutes
Location: Snootli Creek Hatchery
Date: November 21st 2017
Time: 1:00 pm - 3:00 pm

Regrets from: Area E Director Sam Schooner

Meeting Participants:

Wally Webber, Nuxalk Chief and Council
Steve Hodgson, Search and Rescue, Conservation Officer, BC Parks
Scott Monuik, RCMP
Russ Hilland, Bella Coola Watershed Society
Roger Harris, Nuxalk Fire/EPC
Rick Skolrood, RCMP
Marlene King – Nuxalk College
Lawrence Northeast, Nuxalk College
Kerry Phillips, Ministry of Forest Lands Natural Resource Operations and Rural Development (MFLRNORD)
Joy McKay, Valley Ridge Riders, Hagensborg Waterworks and Fire Protection District, Outreach Society
Jon Willis, Rangers and Department of Fisheries and Oceans, Snootli Creek Hatchery
Dennis Tippie, Snootli Creek Hatchery
Jeremy Baille, SD # 49 Safe School Coordinator/Emergency Preparedness portfolio
James Hindley, Central Coast Communications Society (CCCS)
Heather Ross, BC Ambulance
Haakon Hammer, Snootli Creek Hatchery
Fred Sorenson, Bella Coola Fire Department
Devon Girard, Central Coast Communications Society (CCCS)
Brittany Hughes, Acswalta School
Bonnie Cahoose, First Nations Health Authority
Bill van Egteren, Department of Fisheries and Ocean

Guests from outside Bella Coola Valley:

Todd Hubner, Ministry of Transportation and Infrastructure
Kasey Foyston, Ministry of Transportation and Infrastructure
Branko Samoukovic, Work Safe BC

CCRD Staff and CCRD Contractors:

Courtney Kirk, CCRD Chief Administrative Officer, Meeting Chair
Bridget Horel, CCRD Community Economic Development Officer
Hans Grananader, CCRD Contractor Updating Emergency Plans
Jessie MacDonald, CCRD Contract Grant Writer/Recovery Manager
Caitlin Thompson, CCRD Contractor (Public Information Officer with CCRD during Wildfires)

Some invitees were not able to attend the meeting. Notes are detailed to provide a comprehensive overview of the meeting.

1. Welcome

Courtney Kirk, meeting chair, opened with an acknowledgment that everyone was meeting on unceded Nuxalk Ancestral Territories.

2. Meeting Agenda

- Introductions
- Review of Draft Agenda
- Intent of Committee
- Presentation on Updates to CCRD Emergency Plans
- Recovery Manager Introduction
- Grants for Emergency Preparedness
- Recent Flooding
 - Disaster Financial Assistance Authorized
 - Summary of Flyover
 - MOTI
- Topics to Cover Over Next 6 Months
- Next Meeting Date

3. Intent of Committee

Courtney Kirk shared the intent of bringing everyone together for this initial meeting. The CCRD is mandated to facilitate emergency preparedness in the region. The CCRD Board is looking to restructure the emergency response program and would like to continue to have the existing high-level Emergency Executive Committee that reports to the Board and to introduce sub-regional committees in the Bella Coola Valley and Outer Coast to review local level response requirements and resources.

Within the Bella Coola Valley, in bringing together responders and those working in different sectors in the local communities, and by working collaboratively with Nuxalk Nation, the CCRD Board aims to better prepare for local emergencies and to provide integrated response approaches.

The CCRD would like to formalize this committee as a sub-regional Emergency Program Management Committee for the Bella Coola Valley that works under the overarching Emergency Executive Committee. The Emergency Program Management Committee would act as an inter-agency council to build stronger knowledge and emergency management capacity in the Bella Coola Valley. The intent is to replicate this in the Outer Coast.

4. Updates on CCRD Emergency Plans

Hans Granader has been contracted to update the CCRD Emergency Management Plans (last updated in 2005). Hans provided an overview of legal requirements, local government jurisdiction, and emergency management systems in BC. He described both the Emergency Operations Centre (EOC) and Incident Command Structures, and shared an overview of the contents of the updated plans including a review of the Hazard, Risk and Vulnerability Analysis and the Bella Coola Risk Profile. It was noted that flood and fire have the highest risk rating, followed by infrastructure failure and severe weather.

Please refer to separate PowerPoint Presentation attached.

Meeting participants were asked to fill out, and return to Hans, a Resource Inventory Survey including communication resources, facilities (i.e. potential meeting spaces), and other resources (i.e. human, equipment).

The opportunity to populate the local Emergency Operations Centre (handout provided) with volunteers from the agencies affiliated with the Emergency Program Management Committee was introduced.

5. Recovery Manager Introduction

Currently the region is involved in Wildfire Recovery. Through Emergency Management BC the CCRD has qualified for a Recovery Manager to assist with the transition from response to recovery from the 2017 Wildfires. Jessie MacDonald has been contracted as the Recovery Manager and will be working with a small team of people, including Caitlin Thompson, contracted from communities throughout the region to gather information about the impacts of the wild fires. The information gathered will be synthesized and used to inform the development and implementation of an appropriate recovery plan for the communities. Communications infrastructure, already identified as an area of significant concern, will be addressed in the recovery plan.

6. Grants for Emergency Preparedness

The CCRD has been working to build up the Emergency Management Program and has identified, and applied for, several grants, some of which can assist with bringing training to the community. There is a desire to engage youth and the broader community in the trainings around Emergency Social Services (ESS) and Emergency Operations Centre (EOC).

Jessie MacDonald, CCRD Contract Grant Writer, provided a summary of the emergency management grants applied for since September 2017:

- a) National Disaster Mitigation Program (NDMP) – Stream 1 funding application for Bella Coola River and Tributaries Flood Risk Assessment. This has passed through the Provincial level and is currently being reviewed at the Federal level
- b) UBCM Community Emergency Preparedness Fund - Bella Coola Valley Flood LiDAR Survey and Orthoimagery. This project is designed to align with the NDMP funding.
- c) UBCM Community Emergency Preparedness Fund – Emergency Social Services grant for volunteer recruitment and training and purchase of Emergency Social Services kits. Funds have been included to contract someone to coordinate the volunteer recruitment and training.

An upcoming grant opportunity through the UBCM Community Emergency Preparedness Fund is for Emergency Operations Centre (EOC). Training, recruitment, and equipment purchase will be the focus for this proposal as well.

7. Recent Flooding in Central Coast

- a) Disaster Financial Assistance: The Province recently declared that Disaster Financial Assistance (DFA) is now available to eligible British Columbians on the central coast who may have been impacted by the flooding that occurred from Oct. 23-27, 2017.
- b) Flyover of Bella Coola River: After the recent flooding, EMBC funded an overview flight documenting what was seen along the river in high risk areas. Participants on the flight included: Wally Webber, Sam Schooner, Nathan Cullen, Marshall Hans and Kerry Phillips.

Kerry Phillips, in her role as Flood Inspector with MFLNRORD, provided an update of the flyover. The role of the Flood Inspector is to observe, record, and provide a fact based report back to the Province. The flight started at Burnt Bridge and worked West down the Valley. High risk spots along the river, areas where Highway 20 could be compromised, as well as old dikes were documented. The photos have been geo-referenced.

- c) Ministry of Transportation representative Todd Hubner shared his experience from 2010 where MOTI rebuilt in areas that were damaged. Hubner identified that there needs to be a collective plan put forward to the Province around Public Infrastructure.

Discussion followed and community members shared observations around flooding in the community including:

- changes to the Bella Coola River such as debris build up and sediment in the river
- potential for the road to become impassible in areas including roads that are out of the jurisdiction of MOTI (for example the community forest areas and locations that are being used for training by the RCMP).
- potential mitigation actions such as sediment removal and debris and log jam removal.
- past resources and discussions that are available such as the Golder and Associates publication which identifies several areas to pursue for flood mitigation. Gaps identified included authorization to undertake the work and funding/financing for ongoing maintenance.
- Role of Nuxalk Nation, DFO, and other Ministries in mitigation and maintenance work

8. Topics to Cover Over Next 6 Months

Below is a list of topics that arose during the brainstorm. Topics around communications, planning, and training generated much conversation.

- **Land Use Planning in relation to Emergency/Hazard Planning**
- **Tabletop scenarios**
 - Exercises for different types of scenarios – road, flood, marine disaster, and downed aircrafts. For example the ammonia scenario at the Wharf or a regional disaster
 - Bella Coola Fire Department has done an overview of what to do in different scenarios and is hoping to have a mock scenario to look at evacuation procedures. A tabletop for the spring is planned for this
- **Vulnerable Populations** (i.e hospital patients, seniors homes, youth, elders)
- **Training**
 - Nuxalk College is making a concerted effort to deliver training and will be bringing in a variety of training (First Aid Level 1 and 3, Standard First Aid with CPR, Marine First Aid, Small Vessel Operator Program, PAL, CORE, WHMIS, FoodSafe, Fall Protection, Power saw Safety, Flagging, Helipad Construction, etc.) which can support emergency preparation. There are often seats available at a free or reduced cost and Nuxalk College is always looking for partners.
 - Coordination of training with Nuxalk College, Fire Departments, and other organizations
 - Incident Command System Training
 - Helicopter Training (especially in relation to Wildfires)
 - Safety Training
 - Link elementary and secondary schools with training as well
- **Deployment Centre/Supply Depot**
 - Have Bella Coola as a resource area to deploy equipment (where it would be, what it would contain, who tracks the inventory)
 - There used to be a center at Bella Coola Hospital. There is still a trailer at the Hospital and another at the ambulance station – remaining supplies need to be examined
- **Formalization of Interagency Response**
 - Ability to enable other organizations (i.e rangers, DFO, hatchery staff) to act in an emergency and be covered by insurance

- Protocols established with the Federal government so that the agencies have clarity of roles
- RCMP can activate protocols up the chain of command depending on the incident
- **Communications and Connectivity**
 - Planning and Management - use of local communications providers to get the messages out to the public and broader population – CCCS, Nuxalk Radio (CCCS hosts the Nuxalk radio server)
 - Redundancy of Communications - manage locally, or work with Telus and other communications providers (CCCS has looked at various strategies).
 - Local networks - CCCS built a system for local communications with video chat, live chat, public forum in case all communications were lost during the 2017 Wildfires as a result of the infrastructure at Riske Creek.
 - Increased cell coverage - Nuxalk owns fibre optics and has been pushing for cell service to the top of the hill. There are opportunities to connect with other communities working to get cell along Highway 20 (i.e Ulkatcho and Anahim).
 - Use of “Low-Tech” communications - radio communication including HAM Radio Operators
 - Inter-Agency Communication - identify the main channels for communication before, during, and after an incident
 - Improvement of Communications around Transportation
- **Youth Engagement**
 - Schools are interested in having students participate with emergency preparedness and training
 - Students can receive credit for projects and can be volunteers
- **Addressing Climate Change Adaptation**
- **Public Education**
 - Share what can and cannot be done in relation to flooding preparation and preparedness
- **Review of Emergency Management Plans to Provide Input**
 - Review and comment on draft EM Plan update - available last week Nov. Goal is to complete draft plans for December.
- **Psychosocial Side of Response**
 - Integration into Response and Recovery Planning
 - Cumulative and acute effects
 - Cultural Support for Trauma (College can assist with this and liaise with the Health Department at Nuxalk)
- **Populating the EOC**
- **Habitat and Stream Care**
 - Care needs to be taken with habitat and streams and a long-term approach to mitigation and maintenance
- **Cursory Environmental Impact Assessment**
- **EOC Locations**
 - Primary location and alternate locations (CCRD office, Hatchery office, other?)
- **Prioritization of Topics**
 - Possibly create working groups

9. Next Meeting Date

December 13th was introduced as a date for the next meeting as the outer coast Directors would be able to attend. As well, it is hoped EMBC staff will be in attendance and can go over some of the shifts in Provincial structures for Emergency Management.

A goal for next meeting will be to set out a manageable schedule and order for topics.

Date: December 13th

Location: Snootli Creek Hatchery

Time: 1:00pm- 3:00pm

Other Parties to consider extending an invitation to attend the Emergency Program Management

Committee:

Coast Guard

Department of Natural Defense

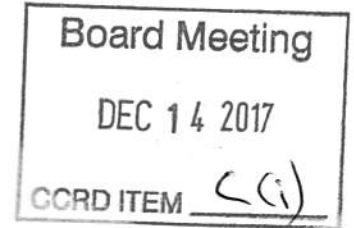
Bella Coola Valley Tourism

Grocery and Fuel Providers – Essential Service Providers



101

**CENTRAL COAST REGIONAL DISTRICT
EMERGENCY OPERATIONS CENTRE
DECEMBER 2017 REPORT**



DATE: December 8, 2017
TO: Courtney Kirk, CAO
CC: Chair Alison Sayers and Board members
FROM: Bridget Horel, Emergency Operations Centre Director
SUBJECT: **Emergency Operations Centre December Report**

RECOMMENDATION:

1. **THAT the Emergency Operations Centre report, dated December 8th 2017, be received.**
-

CCR EMERGENCY OPERATIONS CENTRE HIGHLIGHTS

Tug Jake Shearer SW of Bella Bella

A potential for a fuel spill was reported on November 26, 2017 on the north coast near Goose Island (25 nautical miles southwest of Bella Bella, B.C.). The Jake Shearer tug and fuel barge was carrying a combined total of approximately 12.4 million L of gas and diesel fuel. The Fuel barge, originally reported to be carrying approximately 3.5 million L of diesel and 500,000 L of gasoline as a result the numbers being mistakenly understood as litres instead of gallons, became disconnected from the tug during bad weather.

Due to poor weather conditions the vessels were taken to Norman Morrison Bay at the north end of Campbell Island. An Incident Command Post (ICP) was opened in Port Hardy. The ICP operated under a unified command structure with representatives from B.C. Ministry of Environment, Canadian Coast Guard, Heiltsuk Nation, and Harley Marine Services Inc (owner of the vessels).

Transport Canada inspections did not reveal any signs of fuel release from either the Jake Shearer tug or its fuel barge. A representative of Harley Marine Services and a representative of Heiltsuk Nation observed the inspection. After being cleared for re-entry into American waters, the vessels departed on Dec 2nd to return to Alaska.

Daily updates from November 26th to 30th are [available online](#).

Emergency Operations Centre – October Flooding

In response to the recent high water and flooding events, the Central Coast Regional District (CCR) opened the Emergency Operations Centre (EOC), during regular CCR hours, to level one for monitoring and to coordinate with other agencies. Provincial government officials and elected representatives from the CCR and Nuxalk Nation participated in a flyover assessment on Nov 14th to identify areas with any debris build-up, serious erosion, etc. occurring due to the October 25th high water events. Following this, the Province announced that Disaster Financial

Assistance has been authorized for the Central Coast, among other areas. Additional information on emergency management, please refer to the Emergency Program Coordinator report included in this agenda package.

EMBC Provincial After Action Debrief 2017 Freshet and Wildfire Season

The EOC Director attended After Action Debrief sessions on November 10th with Director Sam Schooner, and Nuxalk Emergency Program Coordinator Roger Harris. There were two concurrent sessions held in Williams Lake and hosted by Emergency Management BC. One session focused on municipal and regional district government feedback and the other focused on First Nation government feedback. As the CCRD and Nuxalk Nation worked in a collaborative response structure, Schooner, Harris, and Horel attended the municipal/regional district session in the morning and the First Nation session in the afternoon.

Participants in the morning session presented an overview of the incidents from their community perspective, outlining the role of primary and supporting agencies, and identifying successes and areas for improvement. Participants in the afternoon session provided feedback on how EMBC can improve emergency management supports to First Nations communities.

The information gathered in these sessions will inform the Provincial After Action Report and Improvement Plan to enhance EMBC's response efforts in supporting communities in the future. Participants came from provincial ministry, municipal governments, regional districts, First Nations and support agencies. Attached to this report are slides from the local and regional district session. The full PowerPoint is available for review through the CCRD.

Respectfully submitted,



Bridget Horel, Emergency Operations Centre Director




Freshet & Fire Season After Action Review

November 2017




Agenda

0845 - 0900	Welcoming Remarks
0900 - 0915	Overview to After Action Review
0915 - 1020	Overview of 2017 Freshet and Wildfire Season
1020 - 1040	Break
1040 - 1230	Facilitated Discussion: Response & Recovery
1230 - 1315	Lunch
1315 - 1430	Facilitated Discussion: Mitigation
1430 - 1450	Break
1450 - 1600	Facilitated Discussion: Preparedness
1600 - 1610	Summary Of Discussion
1610 - 1630	Wrap Up





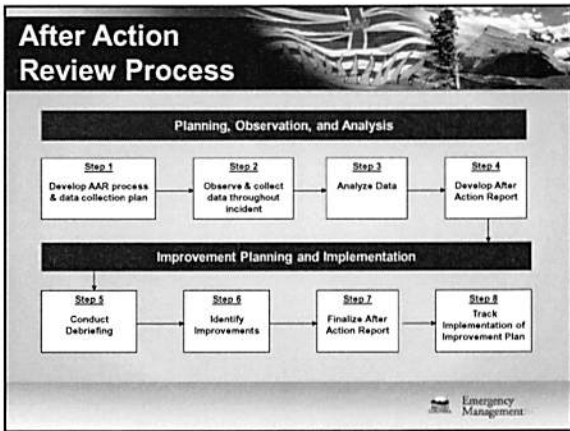
Review Framework

- 2017 Freshet and Wildfire Review Framework has four components:
 - Tier 1 – Internal debriefs
 - Tier 2 – Provincial cross-ministry response review
 - Tier 3 – Province and partners response review
 - Tier 4 – Provincial-level strategic review






After Action Review

- Why Conduct an After Action Review?
 - To identify and learn from our successes and failures

Levels of Post-Incident Analysis

1. **Mission level** - "Were the high level provincial, regional, local, and agency-specific desired objectives and outcomes achieved?"
2. **Discipline/functional level** - "Did the larger team or organization perform in accordance with plans, procedures and protocols to achieve the desired effects?"
3. **Task level** - "Did the person or team do the right thing the right way at the right time?"

Your Input Matters

- Improvement plans fail because:
 - We solved the wrong problem;
 - We fixed the outcome only;
 - We fixed the symptoms only; or
 - We corrected one problem, when two or more problems exist.

Expected Outcomes

Identify strengths and shortcomings:

- Legislation, regulations and policy
- Plans, procedures, protocols
- Organizational structures
- Individual/collective training
- Facilities, tools and resources
- Leadership, oversight and management accountability
- Internal/external communications and interoperability

Guidance to Participants

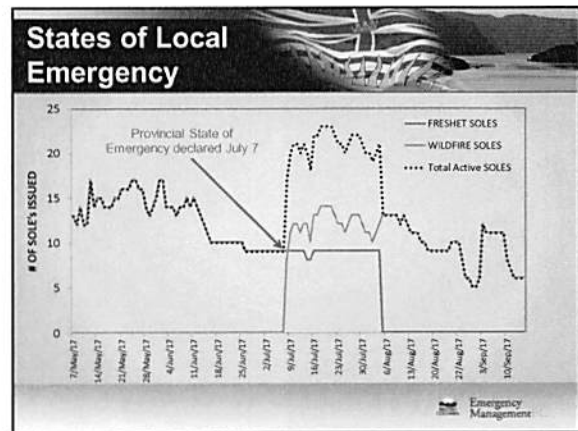
An AAR is centered on four questions:

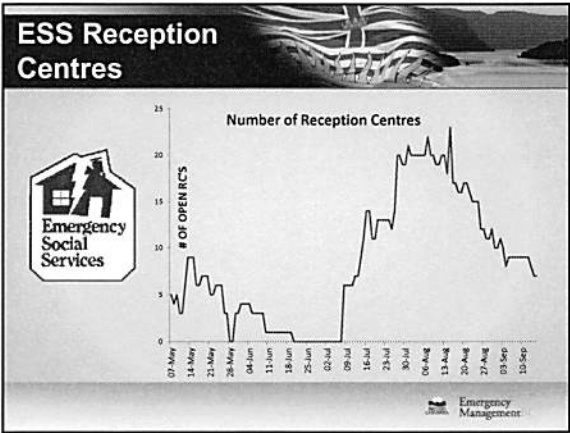
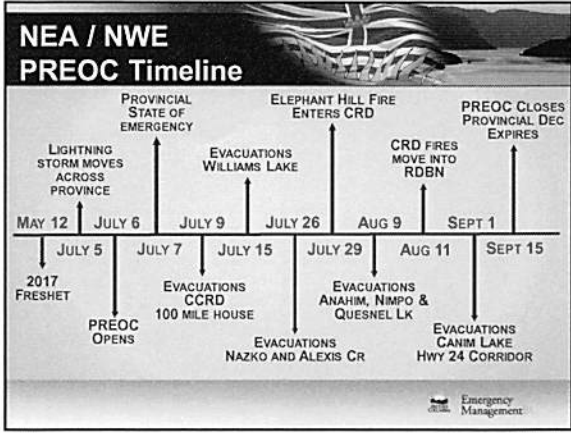
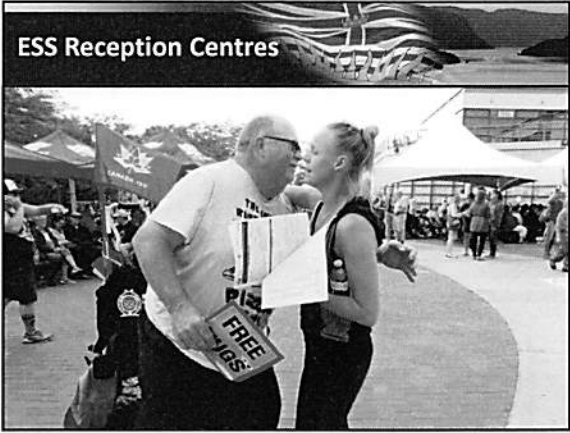
- What was expected to happen?
- What actually occurred?
- What went well and why?
- What can be improved and how?

Seasonal Overview

- Provincial Response Overview
- Northeast PREOC response
- Recap of events (freshet and fire season)
- Consequences and Impacts
- Recovery

2017 Provincial Overview

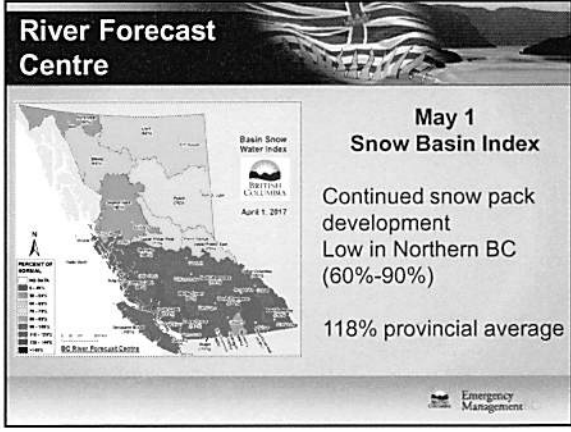


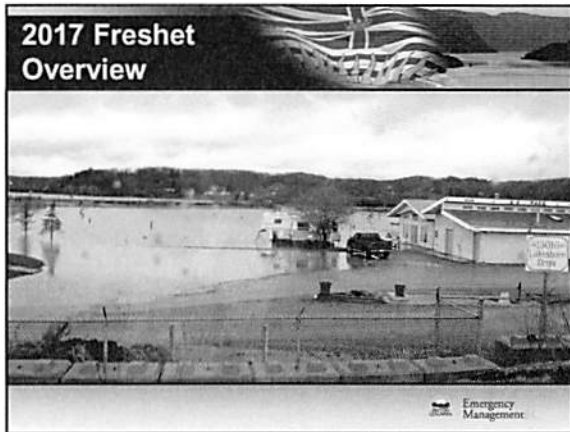


- ### Personnel
- Over 1700 staff to EOCs, PREOCs, PECC
 - Hired over 150 personnel
 - OFC coordinated deployment of 90 FDs
 - Legacies:
 - Local Government to Local Government Staff Support Strategy
 - Personnel Management Framework
 - Formalized agreements
 - Donations Management Framework

NEA / NWE PREOC

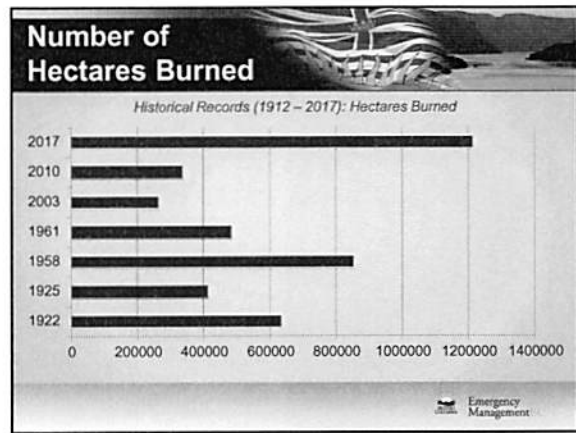
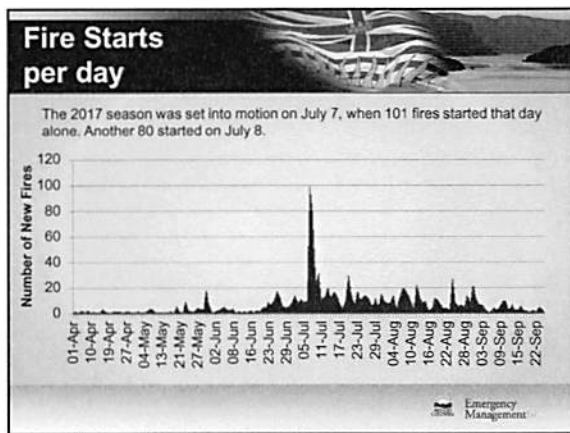
- Expanded into trailer
- Added Wifi and Phone
- New Audio/Visual
- 33 Work Stations
- Enhanced Radio Comms





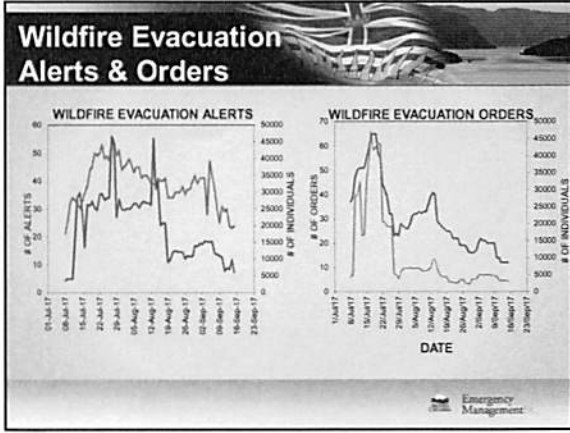
Provincial Overview

Hectares burned	1.2 million
Total fires	1,323
Total cost	\$558 million
People displaced	~65,000



Provincial Overview

\$558,000,000 spent
on wildfire suppression



BREAKING NEWS
Evacuation Order for Williams Lake

65,000 people displaced
by wildfires in the Cariboo and Southern Interior

*Image credit: Global News

502 structures impacted
including 229 homes

NEA / NWE Overview


Hectares burned	909,294
Total fires	706
Structures lost or damaged	202*

*estimated lost or damaged structures

NEA / NWE EAFs and RRs

675 Approved Expenditure Authorizations and Resource Requests – Totalling \$17,030,666

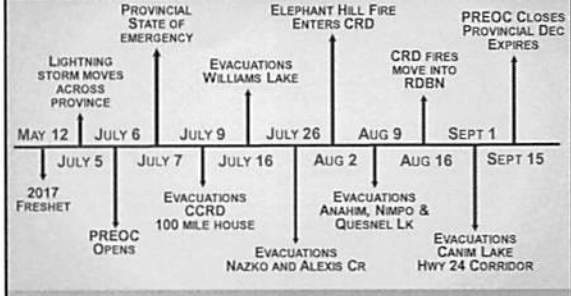
Wildfires of Note: NEA / NWE



Plateau Fire	July 7	521,012 ha
Hanceville-Riska	July 7	239,298 ha
Elephant Hill	July 6	191,865 ha
Kleena Kleene	July 7	25,558 ha
Kluskoll Lake	Jul 10	21,870 ha
White Lake	July 7	13,211 ha
Wildwood	July 7	12,723 ha
Precipice	July 7	7,367 ha

Emergency Management

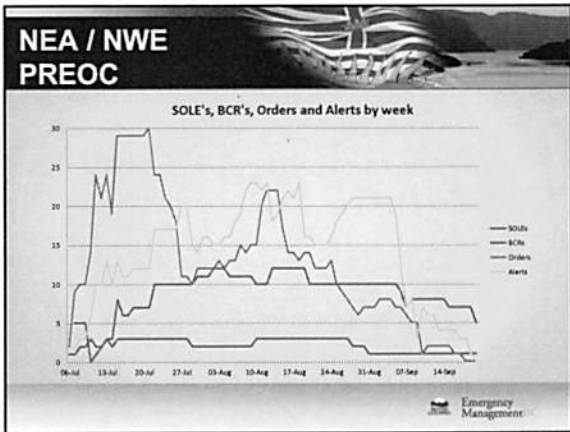
NEA / NWE PREOC Timeline



Timeline of key events:

- MAY 12: 2017 FRESHET
- JULY 5: PREOC OPENS
- JULY 6: LIGHTNING STORM MOVES ACROSS PROVINCE
- JULY 6: PROVINCIAL STATE OF EMERGENCY
- JULY 7: EVACUATIONS CCRD 100 MILE HOUSE
- JULY 9: EVACUATIONS WILLIAMS LAKE
- JULY 16: EVACUATIONS NAZKO AND ALEXIS CR
- JULY 26: ELEPHANT HILL FIRE ENTERS CRD
- AUG 2: EVACUATIONS ANAHM, NIMPO & QUESNEL LK
- AUG 9: CRD FIRES MOVE INTO RDBN
- AUG 16: EVACUATIONS CANM LAKE HWY 24 CORRIDOR
- SEPT 1: PREOC CLOSES PROVINCIAL DEC EXPIRES
- SEPT 15: EVACUATIONS CANM LAKE HWY 24 CORRIDOR

Emergency Management



Landscape-level Damage



Post-burn considerations: fire guards to be rehabilitated, replanting, challenging timber salvage, range land, and wildlife habitat assessment

Emergency Management

Highways


Highway 97
Closed July 7 – July 27
Closed July 30 – Aug 15
38 days

Highway 24
Closed July 10 – July 23
Closed Aug 3
Closed Sept 1 – 11
26 days

Highway 20
Closed July 8 – Aug 24
48 days

Emergency Management

Infrastructure



Emergency Management


Livestock

1,030
Livestock Relocated

12,151
Livestock Fed
~\$838,995 Hay EAF's

45,000 – 65,000
Animals Impacted

Livestock and other non-range animals:
Pigs, Sheep, Goats, Llamas, Rabbits and Bee Colonies



Economy





Recreation and Tourism

232
Rec Sites/Trails Closed
60 remain closed



65
BC Parks Closed
10 remain closed/1 partially

Recreation Impacted
43 days of closed Rec Sites/Trails
46 days of closed BC Parks
78 days of Fire Bans




Consequences and Impacts: 2017

- Staff & Volunteer Capacity
- Evacuation Planning and Authority
- Operational Processes & Procedures
- Interagency Coordination
- Climate Change Impacts
- Emergency Social Services
- Agricultural Impacts
- Re-entry and Recovery
- Psychosocial Support





*Image credit - THE CANADIAN PRESS/BOB C. ROY. *MANDATORY CREDIT




Recovery

- Mandate is to support local authority and First Nations community-led recovery
- Outreach based on Recovery Toolkit
- Land-based recovery led by FLNRORD
- Other key working groups focussing on Mental Health (MOH) and Economy (JTT)
- NGO and Donations Management
- Disaster Financial Assistance (DFA)
- Canadian Red Cross and INAC



Together, we will rebuild.



United for BC Wildlife Recovery. Please Donate.



Prince George - ESS

3 Areas for Improvement

1. Reception Centre/Group Lodging Centre(s)
2. Incident Command
3. Registration/Referral Supervision

Prince George - ESS


3 Areas For Improvement



1. Communications
2. Clear Rules
3. Paper Forms

Prince George - ESS

3 Key Successes



1. Staff/Volunteer model
2. Relationships
3. Group Lodging

City of Williams Lake

- Successful evacuation and return
- Growing level of collaboration between agencies, good support overall
- New practices in recovery efforts, EMBC involvement appreciated
- Feedback Welcome: Impact of City EOC separate from Cariboo EOC
- Recovery – who monitors the regional socio-psycho resources to assure all remain in place?



Response:
Successes and Challenges

- Operational Communication
- Public Information
- Declarations, Evacuations and Re-entry
- Emergency Social Services
- Response Capabilities and Capacities

Recovery:
Successes and Challenges

- Transition to Recovery
- Infrastructure and Reconstruction
- Landscape and Environment
- People and Communities
- Staff: Health and Well-being

Mitigation:
Successes and Challenges


- Risk Assessments
- Protective Works
- Land Use Planning
- Public Education Programs
- Climate Change Adaptation

Preparedness:
Successes and Challenges

- Legislation, Regulations and Plans
- Training and Exercising
- Organizational Capacity
- Relationship Building and Agreements
- Facilities, Equipment and Supplies

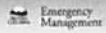
Discussion Summary

Did We Miss Anything?



Wrap-Up

- Development of After Action Report
- Development of Improvement Plan
- Feedback from Stakeholders
- Monitoring Progress



BRITISH COLUMBIA

Thank You

Emergency Management BC
www.embc.gov.bc.ca

