



AFTERMATH OF FIRE ON BLUFF ABOVE ZEBALLOS

|                            |                    |
|----------------------------|--------------------|
| <b>Recovery Component:</b> | <b>Environment</b> |
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**Key Considerations**

Identify the need, and document information on supports to facilitate environmental recovery and mitigate against long term environmental effects and risks. Supports may include: Environmental not for profit agencies; Ministry of environment; consultants; land fill operators; chambers of commerce; BC Government; engineers

| <b>Need</b>                  | <b>Activities</b>   | <b>Resources to Consider</b>  | <b>Timeline/ Milestone</b> | <b>Person Responsible</b>                   | <b>Financial Considerations</b>   |
|------------------------------|---|---|----------------------------|---|---|
| Hazard reduction             | Implementing initiatives to increase the resiliency of the Village to interface fires                         | Ministry of Forests, Lands, Natural Resource Operations and Rural Development<br>EMBC | Summer 2019                | TBD   | Funds required for education program for residents  |
| Mitigation Structures        | Determine if there are options for affordable structural mitigation works to lessen the level of risk         | FLNRORD<br>EMBC   | Spring 2019                | BGC Engineering                             | Funding may be required to provide cost estimates for more detailed mitigation structures             |
| Mitigation Revegetation      | Investigate options to reforest the affected areas to aid in slope stabilization                              | FLNRORD<br>Western Forest Products  | Summer 2019                | Tom Millard<br>Paul Kutz                    | Unknown   |
| Climate and slope monitoring | Collect and record climate data and observe slope activity to identify any potential threats to public safety | FLNRORD<br>Village of Zeballos  | Ongoing                    | Tom Millard<br>Village Public Works Foreman | Funding required in the Village's annual budget for ongoing weather monitoring and slope observations |

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| Public Education    | Provide home owners with updated information including the BGC Assessments, the Province of BC "FireSmart Manual", and "Landslides and Flooding Risks Due to Wildfires" brochure   | Village of Zeballos<br>BGC<br>FLNRORD | Immediate                  | TBD                       | Funded by Province of BC               |
| <b>Need</b>         | <b>Activities</b>  | <b>Resources to Consider</b>          | <b>Timeline/ Milestone</b> | <b>Person Responsible</b> | <b>Financial Considerations</b>        |
| Wildfire Protection | Request that the Strathcona Regional District update the "Zeballos Community Wildfire Protection Plan" Prepared by B.A. Blackwell & Associates Ltd. March 2011 as recent events and climate change have affected the inherent risk | Strathcona Regional District          | Summer 2019                | Shaun Koopman             | Funded by Strathcona Regional District |



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| <b>Recovery Component:</b> | <b>Reconstruction</b> |
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Re-opening and repairing infrastructure threatened and damaged as a result of the effects of the wildfire in a predetermined and timely manner is essential to community recovery.

**Key Considerations**

Identify the need, and document information on supports to that will enable the safe and orderly restoration of damaged infrastructure and buildings. Examples of supports and resources include construction associations; contractors; BC Government.

| <b>Need</b>  | <b>Activities</b>  | <b>Resources to Consider</b>  | <b>Timeline/ Milestone</b> | <b>Person Responsible</b>   | <b>Financial Considerations</b>   |
|--|--|---|----------------------------|---|---|
| Re-open Zeballos Mainline Road/ Maquinna Avenue north of Sugarloaf Bridge<br><b>UPDATE: Road re-opened</b> | Repair any damage to the road surface, shoulders and drainage ditches. Fortify slope as appropriate.                             | Ministry of Transportation and Infrastructure<br>Mainroad Contracting | Spring 2019                | Michael Goodhelpsen<br>Ryan Gustafson<br>Lynne Stone<br>Leon Bohmer | MoTI is committed to continue monitoring this route and to clear any debris within 24-hours |
| Buildings and Structures   | Clean homes of accumulated dust, dirt and moisture.  | Individual property owners<br>Cleaning companies                      | Immediate                  | Property Owners<br>VIHA   | N/A   |
| Insurance  | Property owners should consult with their insurers to determine if their insurance policies provide any coverage for this event. | Individual insurance companies  | Immediate                  | Property Owners   | N/A   |

## Appendix 1: Common Recovery Issues

Issues unique to the event will influence and drive provincial efforts and interests. A number of factors may influence the types of issues or extent of provincial involvement in recovery, including response actions; political and executive direction indicating the scope of province's role; capacity of local authorities; scale of impact and availability of alternative supports (e.g., insurance coverage, NGOs, etc.). Nevertheless, past disasters have consistently resulted in the types of recovery issues identified below. The list is not exhaustive, and the unique circumstances of the event will dictate recovery issues.

### Recovery Issues:

- **Emergency Support Services (ESS):** Emergency Support Services include a range of services to preserve the well-being and provide basic necessities for people affected by an emergency or disaster (e.g., family reunification, emergency lodging, food and clothing, etc.). This is generally a Response consideration, but may be relevant at the transition from Response to Recovery.
- **Business resumption and/or continuity:** Refers to efforts to resume or make alternative arrangements for service delivery of the company or business.
- **Local Authority and First Nation critical infrastructure:** restore and/or repair any damage to critical infrastructure to basic or pre-disaster functionality, such as roads, utilities, community centres, offices, etc.;
- **Small business supports:** This may include a broad array of supports to assist businesses with recovery, including access to capital, marketing, and labour force recruitment and retention.
- **Industry resumption:** Resumption of particular industries may be a priority to minimize the macro economic impacts to the province or impacted communities.
- **Non-profit and civil society coordination:** Non-profits are an important partner in recovery to resume or augment service delivery to impacted residents. Past events have also resulted in a strong civil society response as communities within and beyond the impacted area self-mobilize to provide supports to impacted residents. A coordinated and collaborative approach is of value to avoid duplication of efforts.
- **Commemoration:** As significant milestones pass, commemoration events are beneficial for morale of those engaged and to celebrated recovery successes.
- **Psychosocial supports:** Providing a continuum of supportive services targeting both residents and responders affected by an emergency or disaster. These services are intended to assist in diminishing the long-term psychosocial effects and improve an individual or community's adaptive coping mechanisms.
- **Health and Human Services:** provide psychosocial supports. Human Services is able to provide subject matter expertise to target supports to those with greater needs or multiple barriers.
- **Housing:** Housing supports have ranged from emergency lodging or transitional housing as communities are evacuated and interim housing while those impacted progress through recovery.

- **Insurance:** Many disasters in British Columbia are insurable and recovery will be shaped by insurance policies and coverage. However, a large event can result in thousands of claims for households, businesses and governments. A strong partnership with the insurance industry is valuable to coordinate efforts to expedite recovery for those impacted.
- **Support and coaching to impacted communities:** Response and recovery from a major disaster can be an overwhelming experience for local authorities. In past disasters the province has responded to requests to deploy subject matter experts to assist local authorities.
- **Hazard reduction and mitigation:** Implementing initiatives to increase the resiliency of communities to particular hazards. Mitigation can either be structural (e.g., flood diversion channels) or preparedness-based (e.g., reviewing existing emergency plans).
- **Consumer protection:** Information and complaints processes to provide consumer protection as those impacted undertake their personal recovery.
- **Environmental and public health monitoring:** Testing of air, soil, water and other materials samples to identify or monitor any potential threats to public health.

## Appendix 2: List of Recovery Activities to Consider

Each event will present unique circumstances requiring specialized plans. However, a common suite of recovery-oriented plans will need to be developed by the municipality to coordinate, initiate and continue recovery operations. Below is a more detailed list of needs and activities for municipal recovery plans.

- Resident Needs and Capacity Assessment
- Volunteer Management
- Donations Management
- (Rapid) Damage Assessment
- Impacted Neighborhoods/Areas Site Security
- Notification to Residents and Access
- Debris Management and Clean-up – debris recycling strategy
- Business Continuity/Critical Infrastructure Restoration
- Welcome Centres/Information Centres / Resiliency Centers
- (Temporary) Housing
- Campaigns/Activity
- Community Recovery
- Stakeholder Engagement
- Recovery Governance/Recovery Task Force
- Emergency Support Services/Vulnerable Populations Supports
- Psychosocial Supports
- Re-Construction/Permits
- Transition/Demobilization
- Community Celebration/Acknowledgement
- Disaster Recovery Financial Management – including asset management for municipal insurance costs
- Records Management
- Occupational Health and Safety
- Small Business or Economic Recovery
- Mitigation and Lessons Learned
- Heritage and Cultural Re-Construction
- Environmental Public Health



**Appendix 3: Priority Issues Tracker**

| <b>Summary of Issue/ Need</b>   | <b>Recovery Foundation</b> | <b>Priority<br/>High<br/>Med<br/>Low</b> | <b>Possible Solutions</b>  | <b>Assigned To</b> | <b>Date Complete</b> |
|---|----------------------------|--|--|--------------------|----------------------|
| Public Education  | Environment                | High                                     | Provide home owners with updated information including the BGC Assessment by posting on the Village website  | Village Staff      | April 23, 2019       |
| Transition Information  | People                     | High                                     | Arrange for volunteers to communicate with the impacted residents to determine their needs and provide referrals to assistance that might be available; such as help with cleaning, psychosocial supports, and/or financial aid. |                    |                      |
| Commemoration   | People                     | High                                     | Hold a public celebration once a decision on the SOLE and Evacuation Order has been made and the Zeballos Mainline Rd/ Maquinna Ave is reopened.   |                    |                      |
| Mitigation Structures to lessen the level of risk                             | Environment                | High                                     | Investigate the options for implementing structural mitigation works identified in the April 22, 2019 BGC Slope Hazards Risk Assessment Update   |                    |                      |
| Village's primary accommodation and restaurant business needs to be addressed | Economy                    | High                                     | Notify media when the SOLE and Evacuation Order have been removed<br><br>Contact Tourism Association of Vancouver Island to provide special promotion for Zeballos   |                    |                      |

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|---|---------------|-------------|--|--|--|
| <p>Long term Housing Provision for housing for those that may not return to their homes</p> | <p>People</p> | <p>High</p> | <p>Utilize the Village owned land and secure a grant through the Rural Dividend Fund and/or Federal gas tax funding that is available to local governments for infrastructure investments and use this funding to remediate the services and to develop lots. The Village could then look to develop housing on these parcels, in conjunction with residents who may be interested in new housing at this location. BC Housing may be able to provide access to financing at below market rates and provide technical advice on this type of development.</p> <p>Rural Dividend Fund is administered through FLNRORD</p> <p><a href="https://www2.gov.bc.ca/gov/content/employment-business/economic-development/support-organizations-community-partners/rural-economic-development/rural-dividend/program-details2">https://www2.gov.bc.ca/gov/content/employment-business/economic-development/support-organizations-community-partners/rural-economic-development/rural-dividend/program-details2</a></p> <p>Federal gas tax funding is administered through UBCM</p> <p><a href="https://www.ubcm.ca/EN/main/funding/renewed-gas-tax-agreement.html">https://www.ubcm.ca/EN/main/funding/renewed-gas-tax-agreement.html</a></p> |  |  |
|---|---------------|-------------|--|--|--|

**RECOVERY PLAN**

| Summary of Issue/ Need                | Recovery Foundation | Priority<br>High<br>Med<br>Low | Possible Solutions  | Assigned To | Date Complete |
|---------------------------------------|---------------------|--------------------------------|---|-------------|---------------|
| Business resumption and/or continuity | Economy             | High                           | Destination British Columbia is offering a free webinar<br>"What to Say to Foster Visitation: Post-Wildfire Marketing Messages"<br>Thursday June 6, 2019<br>10:00 - 11:00 am PDT<br><i>Your area is recovering from a wildfire. What are the best messages to use when marketing your community as a travel destination after such a disaster? We'll hear the results of recent research from Destination BC that examined what messaging works to encourage leisure travellers to proceed with their trip plans in British Columbia in the midst of a wildfire and what messaging encourages future visitation to the province.</i><br><a href="https://register.gotowebinar.com/register/9186061605920136451?source=Website">https://register.gotowebinar.com/register/9186061605920136451?source=Website</a> |             |               |
| Mitigation Re-vegetation              | Environment         | High                           | Contact FLNRORD and Western Forest Products to investigate options to reforest the affected areas to aid in slope stabilization   |             |               |
|                                       |                     |                                |   |             |               |
|                                       |                     |                                |   |             |               |

# RECOVERY PLAN

| <b>Summary of Issue/<br/>Need</b> | <b>Recovery Foundation</b> | <b>Priority<br/>High<br/>Med<br/>Low</b> | <b>Possible Solutions</b> | <b>Assigned To</b> | <b>Date Complete</b> |
|-----------------------------------|----------------------------|--|---------------------------|--------------------|----------------------|
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## Appendix 4: Contact List For Recovery Plan Implementation

The following individuals and/or agencies have been identified as potential resources for implementation of the Village of Zeballos Recovery Plan:

| NAME               | TITLE                                 | MINISTRY/AGENCY  | EMAIL  | PHONE        |
|--------------------|---------------------------------------|--|--|--------------|
| Claire Trevena     | MLA<br>North Island                   | Minister of<br>Transportation and<br>Infrastructure  | <a href="mailto:claire.trevena.mla@leg.bc.ca">claire.trevena.mla@leg.bc.ca</a> | 250-387-1978 |
| Doug Donaldson     | MLA<br>Stikine                        | Minister of Forests,<br>Lands, Natural<br>Resource<br>Operations and<br>Rural Development. | <a href="mailto:doug.donaldson.mla@leg.bc.ca">doug.donaldson.mla@leg.bc.ca</a> | 250-387-6240 |
| Scott Fraser       | MLA<br>Mid Island-<br>Pacific Rim     | Minister of<br>Indigenous<br>Relations and<br>Reconciliation                               | <a href="mailto:scott.fraser.mla@leg.bc.ca">scott.fraser.mla@leg.bc.ca</a>     | 250-953-4844 |
| Ryan Wainwright    | Senior<br>Regional<br>Manager         | Emergency<br>Management BC<br>Vancouver Island<br>Region                                   | <a href="mailto:ryan.wainwright@gov.bc.ca">ryan.wainwright@gov.bc.ca</a>       | 250-952-5848 |
| John Forrest       | Regional<br>Manager                   | Emergency<br>Management BC<br>Vancouver Island<br>Region                                   | <a href="mailto:john.forrest@gov.bc.ca">john.forrest@gov.bc.ca</a>             | 250-952-5848 |
| Shaun Koopman      | Protective<br>Services<br>Coordinator | Strathcona Regional<br>District  | <a href="mailto:skoopman@srd.ca">skoopman@srd.ca</a>                           | 250-830-6702 |
| Dave Tudhope       | Manager,<br>Emergency<br>Planning     | Municipal Affairs &<br>Housing<br>Planning & Land<br>Use Management                        | <a href="mailto:dave.tudhope@gov.bc.ca">dave.tudhope@gov.bc.ca</a>             | 778-698-3315 |
| Malcolm McNaughton | Director,<br>Regional<br>Development  | BC Housing<br>Vancouver Island<br>Region   | <a href="mailto:mmcnaughton@bchousing.org">mmcnaughton@bchousing.org</a>       | 778-452-2744 |

| NAME           | TITLE   | MINISTRY/AGENCY  | EMAIL  | PHONE        |
|----------------|---|--|--|--------------|
| Tom Millard    | Research Geomorphologist                                | West Coast Region<br>FLNRORD   | <a href="mailto:tom.millard@gov.bc.ca">tom.millard@gov.bc.ca</a>                     | 250-751-7115 |
| Bridget Horel  | Regional Manager<br>Regional Economic Operations Branch | North Vancouver Island/Coast Region<br>Rural Development Unit<br>FLNRORD | <a href="mailto:bridget.horel@gov.bc.ca">bridget.horel@gov.bc.ca</a>                 | 250-286-9370 |
| Deb Borsos     | Regional Recovery Manager                               | Emergency Management BC<br>North West Region                             | <a href="mailto:deb.borsos@gov.bc.ca">deb.borsos@gov.bc.ca</a>                       | 250-641-5071 |
| Graham Watt    | Recovery Manager  | City of Grand Forks/Regional District of Kootenay Boundary               | <a href="mailto:gwatt@grandforks.ca">gwatt@grandforks.ca</a>                         | 236-570-2007 |
| Amy Thacker    | CEO   | Cariboo Chilcotin Coast Tourism Association                              | <a href="mailto:amy@landwithoutlimits.com">amy@landwithoutlimits.com</a>             | 250-392-2226 |
| Derrick Harvey | Disaster Management                                     | Canadian Red Cross   | <a href="mailto:BCCommunityPartners@redcross.ca">BCCommunityPartners@redcross.ca</a> | 250-334-1557 |
| Mark Brown     | Recovery Manager  | Village of Zeballos  | <a href="mailto:recoverymanager@zeballos.com">recoverymanager@zeballos.com</a>       | 250-927-0304 |
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