

Jager, Brenda CSNR:EX

From: TRAN EMBC SWE PREOC Operations 1 TRAN:EX
Sent: Monday, September 21, 2015 6:27 PM
Subject: FW: SIT REP #2 and Map for distribution
Attachments: SWE PREOC Situation Report #2 2015SEP21 @1800.pdf; Task163079_SWEFlood_Sep21_ovw_lttr (3).pdf

Good evening – attached please find the SWE PREOC's Situation Report for Monday, September 21st as well as the overview map of the impacted area.

The PREOC will be closed for the evening and will reopen at 0800 hrs Tuesday, September 22, 2015. For after-hours emergencies, please contact the ECC at 1-800-663-3456

Thank you!
Andrea Schmidt

Operations Chief
Southwest Regional PREOC

Emergency Management BC
14292 Green Timbers Way
Surrey, B.C. CANADA V3T 0J4

Primary SWE PREOC contact
Phone 604.586.4333
Email preoc2.ops1@gov.bc.ca

PREOC Fax 604.586.4083
24 Hour Emergency Reporting 1.800.663.3456

www.embc.gov.bc.ca

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From: SG PEP SWE PREOC Planning 1 SG:EX
Sent: Monday, September 21, 2015 18:01
To: SG PEP SWE PREOC Operations 1 SG:EX
Subject: SIT REP #2 and Map for distribution

Planning Chief
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Southwest Provincial Regional Operations Centre (SWE PREOC)

SITUATION REPORT #2

Event: Flooding and Landslides

Date/Time Issued: 2015-09-21; 1800hrs

PEP Task #: 163079

Operational Period: 2015-09-22; 0800hrs to 1630hrs

SWE PREOC Level: 2

Primary PREOC Email: preoc2.ops1@gov.bc.ca

Primary PREOC Phone: 604-586-4333

Primary PREOC Fax: 604-586-4083

Overall Regional Situation: Improving

The next Situation Report will be issued: 2015-09-22 at 1500hrs

**** New Information**

1. KEY REGIONAL INFORMATION

- ****The River Forecast Centre has ended High Streamflow Advisory for: Sea to Sky Corridor including the Lillooet River, surrounding streams and the Squamish River.**
- ****Pemberton SAR has located approx. 28 hikers beyond a number of washouts (incl. bridge) on Lillooet FSR. EOC is arranging for a School Bus at the nearest accessible point and will shuttle hikers via helicopter to meet the bus.**
- ****Access to Seton-Portage now possible via Lillooet.**
- ****MOTI assessment of bridge at Seton Portage. Expressing concern about creek deposits and impact to neighbouring area if deposits are removed. Water Stewardship is following up with SLRD and sending someone to Seton tomorrow for further assessment.**
- **** MOTI (and GeoTech) flew over the area today – more details will be available tomorrow**
- **Heavy rains across the Sea-to-Sky on September 19 and 20th have caused a number of debris flow and flood impacts for SLRD Electoral Areas B, C and D.**
- **The SLRD has a Declaration of State of Local Emergency for Area C – Birken/Gates Lake due to a Landslide and Area B – Seton-Portage due to debris flow and flooding.**
- **debris built up on the upstream side of the bridge.**
- **Washout on the Squamish Valley Forest Service Road - 20 campers are on the other side, SAR has removed 7 campers with children**
- **Mudslide - Portage Road and Southerland Road – evacuation in place as slide is still considered active**
- **First Nations have taken in some of the evacuees.**
- **Total Active RCs: 0**
- **Total Active Alerts: 1 Seton-Portage Area**
- **Total Orders: 2 Tactical evacuations: Cresta Road and Spider Creek Road, Seton-Portage**

- ****Total States of Local Emergency: 2 SLRD - Electoral Area B - Expires September 26, 2015 @ 2100 hrs and Electoral Area C – Expires September 26, 2015 @ 1600 hrs**
- **Total Band Council Resolutions: 0**

2. **WEATHER FORECAST FOR September 21, 2015 @ 1700hrs (ACCORDING TO ENVIRONMENT CANADA)**

Tonight: A few clouds. Fog patches developing overnight. Low plus 3.
Tuesday: Cloudy. Becoming a mix of sun and cloud in the morning. Fog patches dissipating in the morning.
Tuesday night: Partly cloudy. Becoming cloudy overnight. Low plus 4.
Wednesday: Cloudy. High 16.
Thursday: Periods of rain. High 17.

3. **LOCAL AUTHORITIES, EOC LEVEL, STATUS**

Squamish Lillooett Regional District: EOC level: 1; Hours: 0700hrs to 0100hrs.

- **Incident:** The SLRD has activated their EOC On September 20, 2015 due to landslides, debris flow and flooding
- **Alerts:** 1
- **Orders:** 2 Tactical evacuations: Cresta Road and Spider Creek Road, Seton-Portage
- ****State of Local Emergency: 2: Electoral Area B - Expires September 26, 2015 @ 2100 hrs
Electoral Area C – Expires September 26, 2015 @ 1600 hrs**
- ****Also impacted was the CRT/Innergex project at Boulder Creek. There are 9-11 people at the camp that are cut off. Those at the camp are secure. Innergex will repair the road when they are out of extreme hazard rating for 24 hours as set by their Engineers.**
- ****N'Quatqua FN Band: Slide occurred between Darcy and Birken cutting off access.**
- ****Assistance is in place to resupply essential items for N'Quatqua FN, D'Arcy and Devine as estimated road opening is not until Friday.**
- ****All backcountry users have been accounted for.**
- ****Assessment needed for Seton River - water flowing wrong direction and Anderson Lake may not be draining**
- ****Seton Lake FN requested ESS forms – approx. 20-30 people affected, # of houses undetermined**
- ****Assess restored to Seton Portage/Tsal'alh**
- In Electoral Area D, 35 back country users were stranded on the Squamish Forest Service Road (FSR) due to road flooding and debris flows at Terminal and Mud Creeks. Squamish SAR and RCMP responded, extracting 7 individuals from beyond the Terminal Creek area. 24 campers remained in the area beyond the road washout, and it is hoped that they will be able to drive out in the morning on 21 September 2015. 2 hunters remain in the area, and are reported to be well prepared and provisioned for the wilderness.
- In Electoral Area C, significant debris flow has impacted 6 properties on Pemberton Portage Road north of Birken/Gates Lake. 1 structure was destroyed, and several others seriously impacted.
- The Pemberton Valley Dyking District is coordinating flood protection activities on behalf of the SLRD approximately 15 km out the Pemberton Meadows Road where existing dyking was overwhelmed by the rapid rise of the Lillooet River.

****Village of Pemberton: EOC level: 1; Hours: 0830 hrs to 1200hrs.**

Incident: The Village of Pemberton activated their EOC on September 20, 2015 @ 1750 hrs in response to high water levels in residential areas, and potential flooding.

- Alerts: 0
- Orders: 0
- State of Local Emergency: 0

- The local rivers and creeks (Rutherford, Green, Pemberton Creek, Arn Canal, Ryan, Miller and Lillooet) were at high levels and causing each other to back up.
- Village Public Works crew are monitoring
- The Village of Pemberton as advised the SWE PREOC that the EOC will stand down in the afternoon of September 21, 2015.

4. FIRST NATIONS, EOC LEVEL, STATUS

None reported: EOC level: 0; Hours: 0000 to 0000hrs.

- Incident:
- Alerts:
- Orders:
- Band Council Resolution:

5. AGENCIES, EOC LEVEL, STATUS

6. PEOPLE IMPACTED

Squamish Lillooet Regional District

- Details: SLRD has SOLE for Portage Rd Area - Evacuation in place as slide is still considered active
- #People Alerted: 30+
- # People Evacuated: unknown at this time
- # Units/Homes Evacuated: unknown at this time
- # Injured: None reported
- #Homeless: None reported
- Name and Address of RC/GL:
- Facility Capacity: N/A
- Total # Registered: 0

****Seton FN Band**

- Details: 3 slides have impacted band members. Power pole is down
- #People Alerted: None reported
- # People Evacuated: 32
- # Units/Homes Evacuated: unknown at this time
- #Homeless: None reported
- Name and Address of RC/GL: 6 people are at the elders complex and remaining are staying with family and friends.
- Facility Capacity: N/A
- Total # Registered: 0

7. HEALTH INFORMATION

Z:\SWE PREOC TASK 163079 - Flooding\3 Planning\Situation Unit\PREOC Situation Reports (copy template from PREOC Toolkit Forms)\SWE PREOC SITUATION REPORT #2 2015SEP21.docx 3 | Page

Updated: May 16, 2012

- No impacts reported

8. LIVESTOCK IMPACTED

- No impacts reported

9. TRANSPORTATION IMPACTED

****Road: Upper Squamish Valley FSR**

- **Owner:** FLNRO
- **Details:** Washout on the Squamish Valley FSR. SAR and FLNRO conducted an assessment. Closed both directions and will remain closed until water levels recede for safe passage.
 - 1 to 9 km subsided
 - 16 km road washed-out

****Road: Squamish Valley Road**

- **Owner:**
- **Details:** Located approx. 10 km from the beginning of the road. High water levels have overwhelmed the road surface. 20 properties impacted by road closure. Maintenance contractor will re-gravel once the water subsides and then road can be reopened.

****Road: Upper Lillooet FSR at 5km marks**

- **Owner:**
- **Details:** Washout at 5 km – access is available. Assessment done of the Upper Lillooet FSR there is also a slide at 32 km, 2 slides at 31 km and bridge impact at 19 km. Equipment is available.

****Road: Portage Road**

- **Owner:** unknown
- **Details:** Mud Slide is on Portage Rd 6 KM North of Gate Lake. Portage Rd and Gates Rd will remain closed both directions. ****Portage Road: Estimated up to 2-4m of debris has covered 250m of the road, MOTI has equipment on site and has started debris removal.**

Road: **Gates Creek Road:

- **Owner:** unknown
- **Details:** mudslide
 - **Location:** end of Gates Creek Road (1 km long road) approx. 25km north of Pemberton. Estimated up to 3m of debris has covered less than 100m of road. Debris removal is underway. Equipment on site.

Bridge: the South of Seton-Portage

- **Owner:** Shalalth First Nation
- **Details:** Debris building on the upstream side of the bridge.

Rail

- ****The debris flow also impacted CN Rail tracks. No specific details available.**

Marine

- No impacts reported

Air

- No impacts reported

10. UTILITIES IMPACTED

BC HYDRO

- Details: **Power has been restored power as per website and community reports.

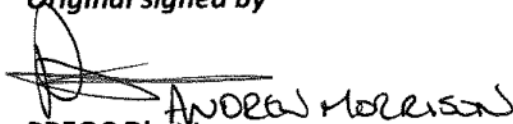
11. PUBLIC INFORMATION AND MEDIA ISSUES

12. USEFUL LINKS

| | |
|------------------------|---|
| SLRD: | www.slrd.bc.ca |
| River Forecast Centre: | http://bcrfc.env.gov.bc.ca/ |
| Weather | https://weather.gc.ca/forecast/canada/index_e.html?id=BC |
| BC Hydro | https://www.bchydro.com/outages/orsTableView.jsp |
| Drive BC | http://www.drivebc.ca/ |

APPROVED BY:

Original signed by


PREOC Director

Primary PREOC Email: preoc2.ops1@gov.bc.ca

Primary PREOC Phone: (604) 586-4333

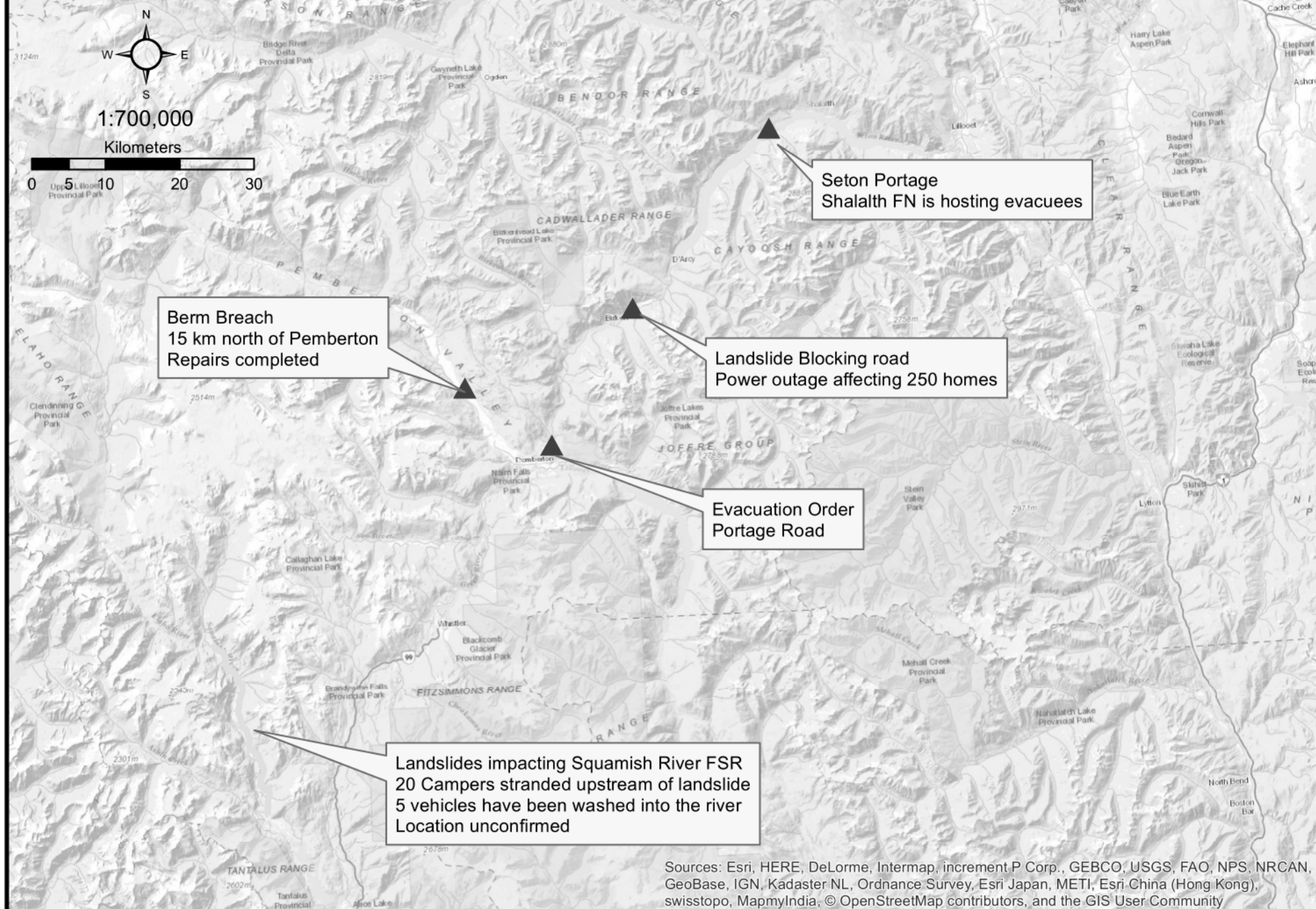
Primary PREOC Fax: (604) 586-4083

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SWE Flooding - September 21, 2015, 1430 h - Situation Map



Emergency
ManagementBC



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Siemens, Ailsa M FLNR:EX

From: Southam, Dave FLNR:EX
Sent: Wednesday, February 17, 2016 4:35 PM
To: 'Ryan Wainwright'
Subject: RE: Birken Landslide

Ok great

Dave Southam, RPF
District Manager
Sea to Sky Natural Resource District
Tel: (604) 898-2141
E-mail: Dave.Southam@gov.bc.ca



Ministry of
Forests, Lands and
Natural Resource Operations

From: Ryan Wainwright [<mailto:RWainwright@slrd.bc.ca>]
Sent: Wednesday, February 17, 2016 4:32 PM
To: Southam, Dave FLNR:EX
Subject: RE: Birken Landslide
Importance: High

I believe that to be the case, though the conversation I had with CN is that historically, the water flow simply dissipated on the fan. There is a channel under the CN bridge at that location, but it does not always carry water, and less so now that there is a massive amount of unconsolidated debris left behind from the landslide.



Ryan Wainwright
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From: Southam, Dave FLNR:EX [<mailto:Dave.Southam@gov.bc.ca>]
Sent: February 17, 2016 4:29 PM
To: Ryan Wainwright <RWainwright@slrd.bc.ca>
Subject: RE: Birken Landslide

Thanks Ryan. Just so I am clear as I am not familiar with the exact location, I assume that this channel crosses under the CN Rail line at some point and they are trying to ensure the watercourse is directed at a culvert??? Do I have that right?

Dave Southam, RPF
District Manager
Sea to Sky Natural Resource District
Tel: (604) 898-2141
E-mail: Dave.Southam@gov.bc.ca



From: Ryan Wainwright [<mailto:RWainwright@slrd.bc.ca>]
Sent: Wednesday, February 17, 2016 4:24 PM
To: Southam, Dave FLNR:EX
Subject: FW: Birken Landslide
Importance: High

Hi Dave –

From a site visit today...

Cheers - Ryan



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Emergency Program Manager
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From: Edward Witwicki
Sent: February 17, 2016 3:45 PM
To: Ryan Wainwright <RWainwright@slrd.bc.ca>
Subject: Birken Landslide

Hey Ryan,

I walked up the creek channel up stream approximatley 200m from the highway . It looks like CN has done some work in the channel up to and under the hydro lines and then had stopped there. There is water running down

the creek channel it disperses into the ground upstream from highway approximately 100m. Not water is reaching the the CN bridge. The creek channel alignment seems to be following the path that the slide followed.

If you need anything else let me know. Please see pics attached.

Thanks,
Ed



Edward Witwicki
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Thanks,
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