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CHEAM FIRST NATION

August 1, 2024

Notice to Cheam Community Members:

Further to communications that were sent out last night from Provincial agencies (attached) we are not currently in an emergency alert/evacuation status. Cheam is working to take all necessary precautions in relation to the situation. The warnings are for areas above Hope Cheam staff are currently preparing for all outcomes that may arise from this flood. Our Emergency Planning staff members are organized related to this matter. They are in constant contact with Provincial officials and are on call 24/7 to meet the needs of our Cheam community.

As a precautionary measure, Community members are advised to stay away from all beaches in the area and avoid all boating. Even if there are no further issues with flooding in our area there is debris coming downriver, some of which is not visible above water.

If you want to assist in our current or future emergency planning or our Emergency Operations Centre please contact Debbie Douglas at (604)794-7924 or eoccoordinator@cheamband.com. Please identify any previous training you have had, though it is not required.

Definition of Advisory and Warning Levels:

- High Streamflow Advisory:** River levels are rising or expected to rise rapidly, but no major flooding is expected. Minor flooding in low-lying areas is possible.
 - Flood Watch:** River levels are rising and will approach or may exceed bankfull. Flooding of areas adjacent to affected rivers may occur.
- Flood Warning:** River levels have exceeded bankfull or will exceed bankfull imminently, and flooding of areas adjacent to the rivers affected will result.

Sincerely,

Cheam First Nation Council & Management

Ministry of Water, Land and Resource Stewardship

Flood Warning – Chilcotin River upstream of Farwell Canyon

Flood Watch – Chilcotin River, Fraser River from Chilcotin River to Hope

High Streamflow Advisory – Fraser River downstream of Hope

Issued: 4:00 PM July 31, 2024

The River Forecast Centre is issuing a **Flood Warning** for:

- Chilcotin River upstream of landslide in the vicinity of Farwell Canyon

The River Forecast Centre is issuing a **Flood Watch** for:

- Chilcotin River downstream of the landslide in the vicinity of Farwell Canyon
- Fraser River from the Chilcotin River confluence downstream to Hope

The River Forecast Centre is issuing a **High Streamflow Advisory** for:

- Fraser River downstream of Hope

Synopsis:

Overnight July 30-31, a landslide occurred on the Chilcotin River near Farwell Canyon, 18 km southeast of Hanceville, pushing debris across the river channel and blocking the flow of the Chilcotin River. This landslide has dammed the river and is creating a lake currently extending several kilometers upstream. Higher water levels are expected along the Chilcotin River upstream of the dam.

Prior to the landslide, the Chilcotin River flow at the Water Survey of Canada (WSC) Chilcotin River near Hanceville (08MB012) station was recorded at approximately 200 cubic metres per second. The near-total blockage by the landslide has caused abrupt cessation of flow downstream in the Chilcotin River, which is a major tributary of the Fraser River. A corresponding decrease in flows is apparent in the Fraser River downstream of the Chilcotin-Fraser confluence. Data from the WSC station Fraser River at Big Bar Creek (08MD013) indicate that flows declined by over 150 cubic metres per second through mid-day on July 31.

The eventual overtopping of the landslide material may lead to sudden erosion of the debris and catastrophic failure of the landslide dam. This could potentially cause an outburst flood downstream of the landslide. In this scenario, a surge of water would rapidly move down the Chilcotin River and into the Fraser River. Water levels could increase extremely quickly along

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the Chilcotin River as well as in the Fraser River immediately below the confluence. In the event of catastrophic failure, the flood surge could reach the Fraser River within hours, potentially traveling from the Chilcotin River to Hope within a day.

Further downstream in the Fraser River (below the Fraser Canyon), the flood wave would be expected to be less severe, but substantial increases in flow may extend all the way to the mouth of the river through the Lower Mainland.

The [River Forecast Centre](#) continues to monitor the conditions and will provide updates as conditions warrant.

For information on how to prepare for flood hazards, visit [PreparedBC](#).

BC River Forecast Centre

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