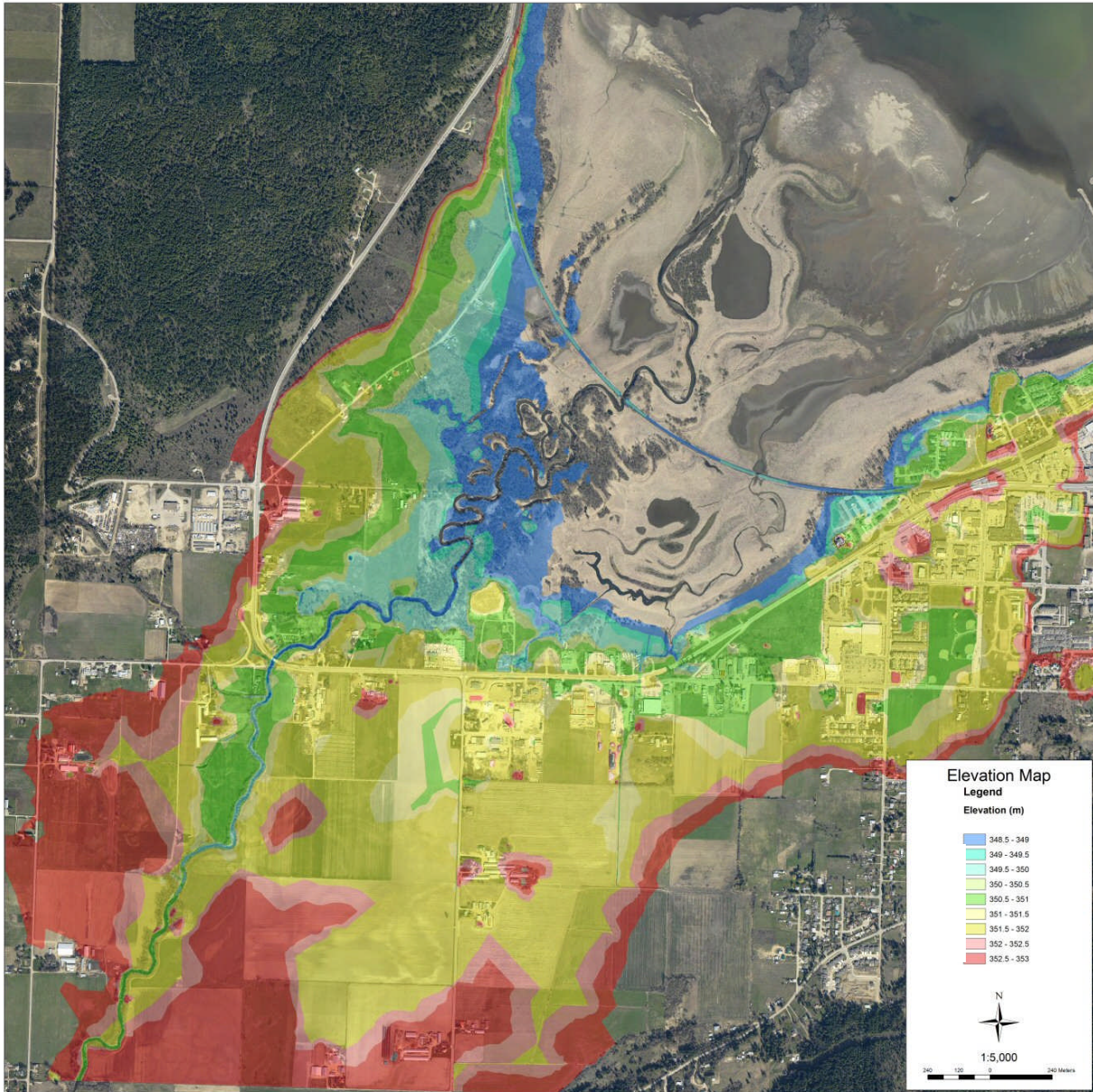


What is the Salmon River Flood Hazard?



Elevation map prepared from City of Salmon Arm LIDAR information. This is **not** a flood hazard map.

Who and what is in harm's way?

What can be done to reduce the risk?

Salmon River Flood Hazards and Risks

*Flooding is a natural process – Flood hazards and risks are largely acts of man.*¹

The following is based, in part, on the 15 March 2011 public presentation on Salmon River flood hazards and risks, by professional geoscientist Dr. Matthias Jakob and professional engineers Paul Doyle and Alan Bates².

Where we are now, and where we're headed

- ✓ Floodplain hazard maps used by the City of Salmon Arm are ***out of date***.
- ✓ New information predicts deeper, more extensive and more frequent flooding in the Salmon River Valley and delta area.
- ✓ The City's Master Drainage plan does ***not*** address Salmon River flooding.

Some costs of flooding

- ✓ Pollution from agriculture, urban development and forestry operations flows into the Salmon River and Shuswap Lake.
- ✓ Flooded industrial, commercial, residential and retail areas will increase the type and concentrations of pollution entering the River and Lake.

Why floodplains are important and useful

- ✓ River floodplains and deltas remove sediment and pollution from surface and groundwater.
- ✓ The River, floodplain and delta are important habitat for salmon and other high value and threatened species.
- ✓ Developed countries value wetlands and the services they provide and are now ***preserving*** and ***restoring*** them.

What we need to do next

- ✓ Planning of development in and around the floodplain and delta requires an updated study to quantify the flood hazard and the environmental and economic risks.
- ✓ For additional information see contact Wetland Alliance: the Ecological Response at <http://www.wa-ter.ca/new.html>

¹ Paraphrased from Gilbert White <http://ngm.nationalgeographic.com/static-legacy/ngm/0708/feature1/text2.html>

² Dr. Matthias Jakob, P.Geo., of BGC Engineering, Paul Doyle, P.Eng., of BC Rivers Consulting and Alan Bates, P.Eng., of Streamworks Consulting.