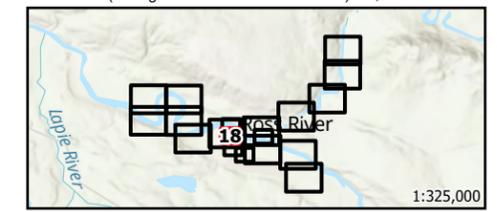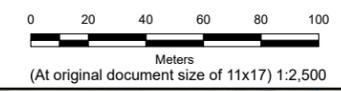**Figure No.**
RR-5-18   Sheet 18 of 19

Title
Ross River Flood Mapping Study
Open Water Flood Hazard Map
5% Annual Exceedance Probability (AEP)

Client/Project
Government of Yukon
Department of Environment
Water Science and Stewardship

Project: 123223019

Project Location   Prepared by MANDERSON on 3/4/2026
Ross River, Yukon

Legend

Point of Interest	Highway
River Flow Direction	Local Road
WSC Stations	Inundation Under Modelled Open Water Runs
Bridge	Inundation Under Modelled Breakup Ice Jam Runs
Surveyed Cross-Sections Used in Hydraulic Model	Ice Coverage in Breakup Jam Scenarios
Toe of Ice Jam	Area Protected by Berm
Berm	Composite Open Water and Ice Jam Inundation Extent
Major Contour (5m)	Approximate 50% AEP Open Water Flood Inundation
Minor Contour (1m)	

0 20 40 60 80 100
Meters
(At original document size of 11x17) 1:2,500

1:325,000

Alaska
Arctic Village
Tuktoyaktuk
Old Crow   Aklavik Inuvik Paulatuk
Tanana Fort Yukon Fort McPherson Tsiigehtchic
Circle Fort Good Hope Colville Lake
Fairbanks Eagle Norman Wells Deline
Nenana Delta Junction Dawson Keno Hill Yukon Tulita
Wasilla Glennallen Mayo Pelly Crossing NWT
Palmer Beaver Creek Carmacks Faro
Valdez Ross River Wrigley
Cordova Haines Junction Whitehorse Fort Simpson
Yakutat Teslin Watson Fort Liard
Skagway Atlin Lake Sambaa K'e

1:25,000,000

Notes
1. Coordinate System: NAD 1983 UTM Zone 10N Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, Canvec.
3. Flood hazard extents shown on these maps are based on LiDAR collected in July, 2019 and topographic and bathymetric data that was collected in June and September 2024.
4. The content of these Draft Maps is based on the methods, assumptions, limitations, and analysis documented in the Ross River Flood Mapping Study (Stantec 2025) produced for Yukon Government. Composite Hazard Maps are based on the assumptions and analysis presented in Stantec 2025 which were based on the available data which is current to the time the maps were produced. Such data contains inherent limitations given that the climatic conditions and geomorphic conditions are constantly evolving and cannot be predicted with certainty.

Canada

Stantec

Yukon

This project is funded in part by the Government of Canada

Sawmill Road
695
695
Pelly Street
Bartie Street
Quartzite Street
Kulan Street
Pelly Avenue
Canol Road
Sheet 17

09BC002
Pelly River at
Ross River

16542
693.61
16625
16704
693.87
16752
693.93
16846
694.14
16912
694.24
17000
694.27
17066
694.33
17145
694.37
17245
694.42
17386
694.46