Figure No.

RR-5-04

Sheet 04 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

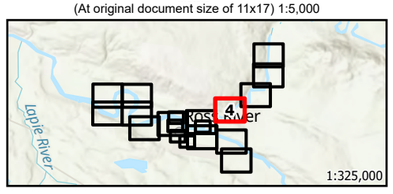
Ross River, Yukon

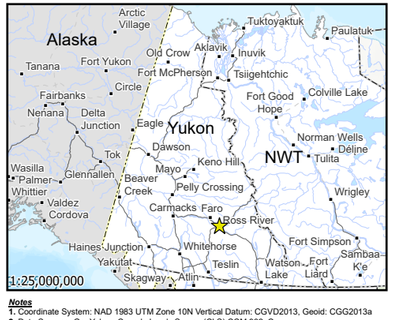
Prepared by MANDERSON on 3/4/2026

Legend

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

0 40 80 120 160 200
Meters
(At original document size of 11x17) 1:5,000





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 topographical 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.

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DRAFT - FOR REVIEW ONLY

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