

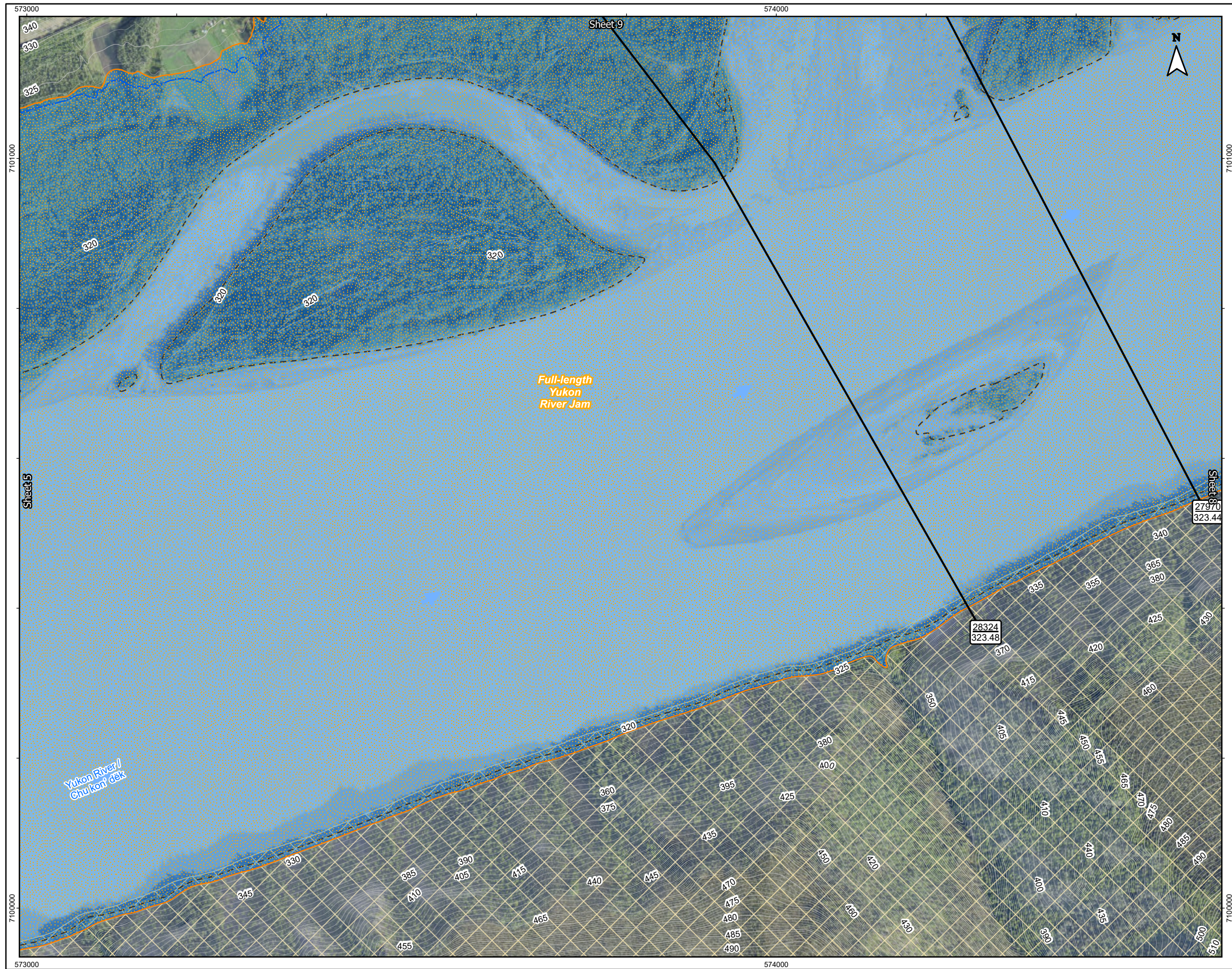


Figure No.

YR-0.5CC-07

Sheet 07 of 19

**Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
0.5% Annual Exceedance Probability (AEP) with Factor of Safety
for Climate Change**

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

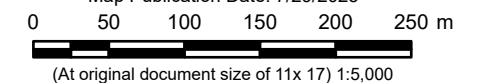
Project: 123222713

Project Location:

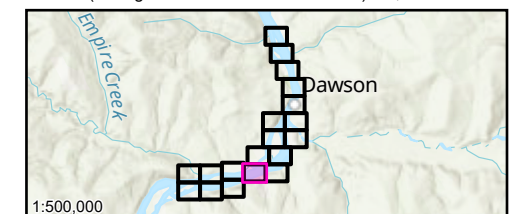
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

	River Flow Direction		Inundation Under Modelled Open Water Runs
	Ground Elevations of Interest		Inundation Under Modelled Breakup Ice Jam Runs
	Cross-Section Number WSE (m) Along Cross-Section		Approximate 50% AEP Open Water Flood Inundation
	Major Contour (5m)		Composite Open Water and Ice Jam Inundation Extent
	Minor Contour (1m)		Ice Coverage in Breakup Jam Scenarios
	Surveyed Cross-Sections Used in Hydraulic Model		
	Tr'ondëk Hwëch'in Settlement Land		

Map Publication Date: 7/29/2025



(At original document size of 11x 17) 1:5,000



Notes

1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 862, 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 2019.
4. 50% AEP inundation limits are based on the 50% AEP flow estimate simulation in the hydraulic model
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6. The content of these Draft Maps is based on the methods, assumptions, limitations, and analysis documented in the Dawson City and Klondike Valley Flood Mapping Study (Stantec: 2025) produced for the Government of Yukon. The Draft Maps are based on the information contained in the 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 changing.

Canada



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Yukon

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