



Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
5% Annual Exceedance Probability (AEP)

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

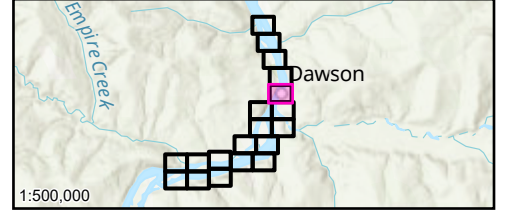
Prepared by MANDERSON on 2026-04-01
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2026-04-01

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| River Flow Direction | Surveyed Cross-Sections Used in Hydraulic Model |
| Ground Elevations of Interest | Tr'ondëk Hwëch'in Settlement Land |
| Municipality | Approximate 50% AEP Open Water Flood Inundation |
| Point of Interest | Inundation Under Modelled Open Water Runs |
| Highway Kilometer Post | Inundation Under Modelled Breakup Ice Jam Runs |
| Cross-Section Number WSE (m) Along Cross-Section | Composite Open Water and Ice Jam Inundation Extent |
| Highway | Area Protected by Dike |
| Local Road | Potential Presence of Ice Debris During Jam Scenario |
| Major Contour (5m) | Ice Jamming Extents |
| Minor Contour (1m) | |

Map Publication Date: 04/01/2026

0 50 100 150 200 250 m

(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 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. 50% AEP inundation lines are based on the 50% AEP flow estimate simulation in the hydraulic model which has been calibrated for higher AEP flood events and therefore should be considered approximate.
5. The content of these Composite Flood Hazard Maps is based on the methods, assumptions, limitations, and analysis documented in the Dawson City and Klondike Valley Flood Mapping Study produced for Yukon Government. Composite Hazard Maps are 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.