

Figure No. **YR-5-02** Sheet 02 of 19

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

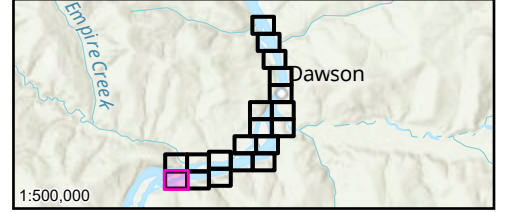
Client/Project:  
**Government of Yukon  
Department of Environment  
Water Resources Branch**

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

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

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.



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