

Figure No. **E.1.9** Sheet 9 of 17

Title: **Carmacks Flood Mapping Study  
Composite Flood Hazard Extents  
5% Annual Exceedance Probability (AEP)**

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

Project: 123222320

Project Location: Carmacks, Yukon

Prepared by MANDERSON on 2024-05-21  
Requested by JMUIRHEAD on 2024-01-07  
Review by JMUIRHEAD on 2024-05-21

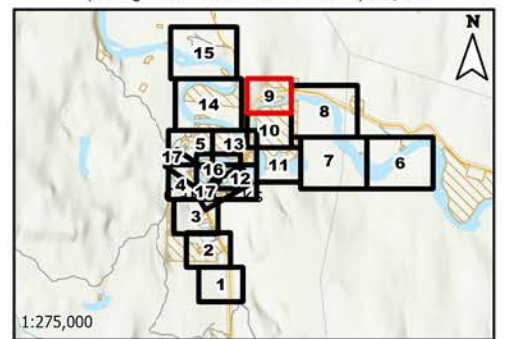
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|---|---|
| Flow Direction  | Hydraulic Model Cross-Sections                                      |
| Point of Interest                                     | Inundation under Modelled Ice Jam Runs                              |
| Bridge  | Inundation under Modelled Open Water Runs                           |
| Highway   | Composite Flood Hazard Extent                                       |
| Local Road  | Ice Jam Location (toe of jam)                                       |
| Little Salmon / Carmacks First Nation Settlement Land | 50 % AEP Extent   |
| Land Parcels  | Hydraulic Model Cross-Sections                                      |
| Municipal Boundary                                    | Cross-Section Number<br>WSE (m) in Main Channel<br>of Cross-Section |
| Study Area  |   |

Sheet 8

Map Publication Date: May 21, 2024

0 40 80 120 160 200 m

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



**Notes**

- Coordinate System: NAD 1983 UTM Zone 8N  
Vertical Datum: CGVD2013, Geoid: CGG2013a
- Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, Canvec.
- Background: World Topographic Map: Northwest Territories, State of Alaska, Esri Canada, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, NRCAN, Parks Canada World Hillshade: Esri, USGS
- Flood hazard extents shown on these maps are based on LIDAR collected on June 8 - 10 of 2019, and bathymetric/topographic survey collected in July and August of 2023.

