

Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
0.5% Annual Exceedance Probability (AEP)

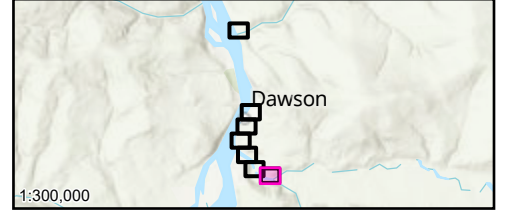
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon
Prepared by MANDERSON on 2026-03-06
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2026-03-06

- | | | | |
|--|--|--|--|
| | WSC Stations | | Surveyed Cross-Sections Used in Hydraulic Model |
| | Highway Kilometer Post | | Toe of Ice Jam |
| | HPW Drainage Culverts | | Tr'ondëk Hwëch'in Settlement Land |
| | Cross-Section Number
WSE (m) Along Cross-Section | | Approximate 50% AEP Open Water Flood Inundation |
| | Cross-Section Number
WSE (m) Along Cross-Section
(WSE in Dike Breach Scenario) | | Inundation Under Modelled Open Water Runs |
| | Surveyed Culvert | | Inundation Under Modelled Breakup Ice Jam Runs |
| | Bridge | | Composite Open Water and Ice Jam Inundation Extent |
| | Highway | | Inundation Extent From Subsurface Seepage |
| | Local Road | | Inundation Under Dike Breach Scenario |
| | Major Contour (5m) | | Potential Presence of Ice Debris During Jam Scenario |
| | Minor Contour (1m) | | Ice Jamming Extents |

Map Publication Date: 03/06/2026
0 25 50 75 100 125 m
(At original document size of 11x 17) 1:2,500



- 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
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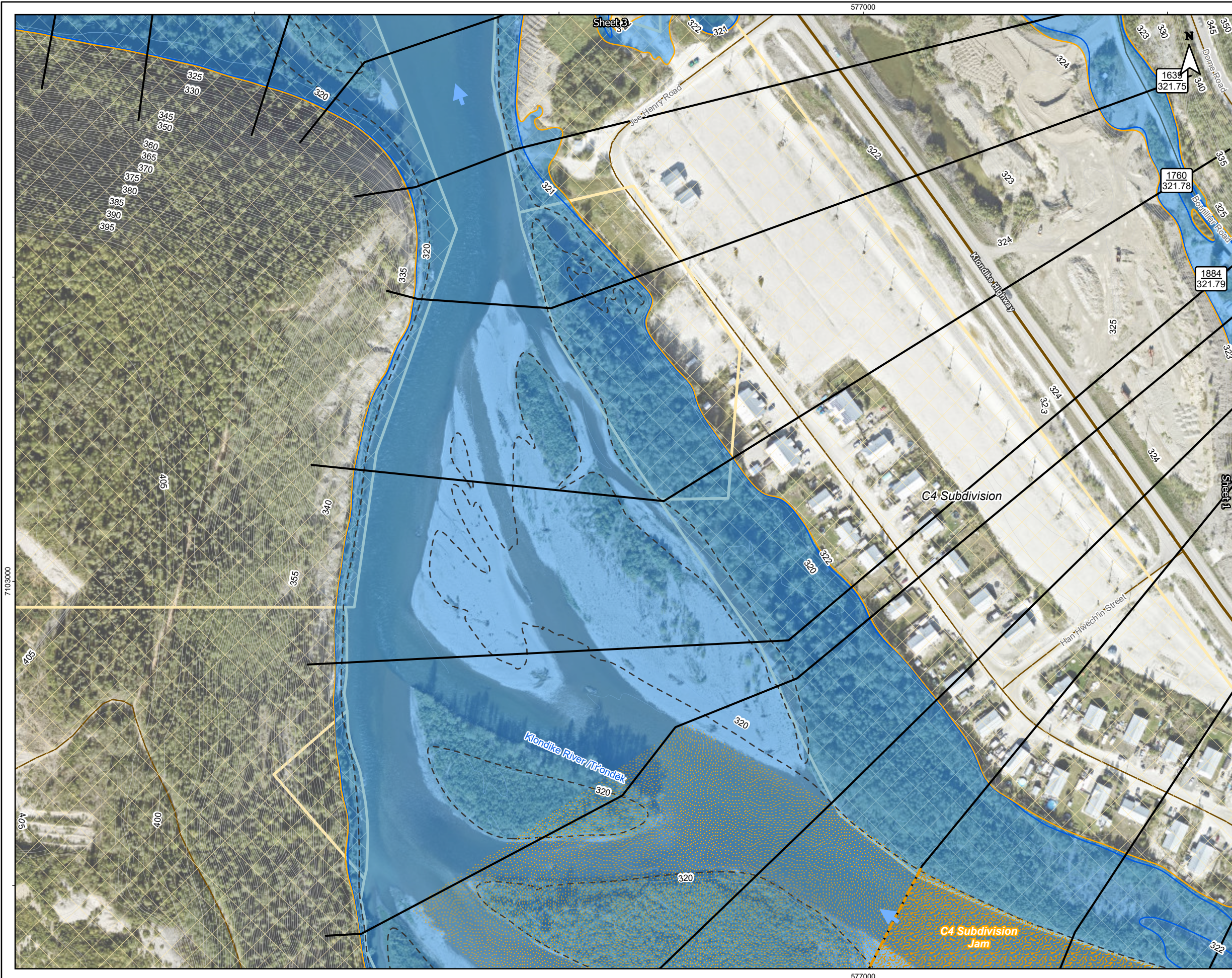


Figure No. **DC-0.5-02** Sheet 02 of 07

Title: **Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
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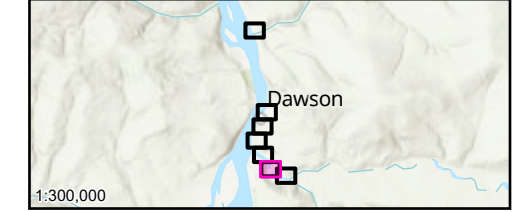
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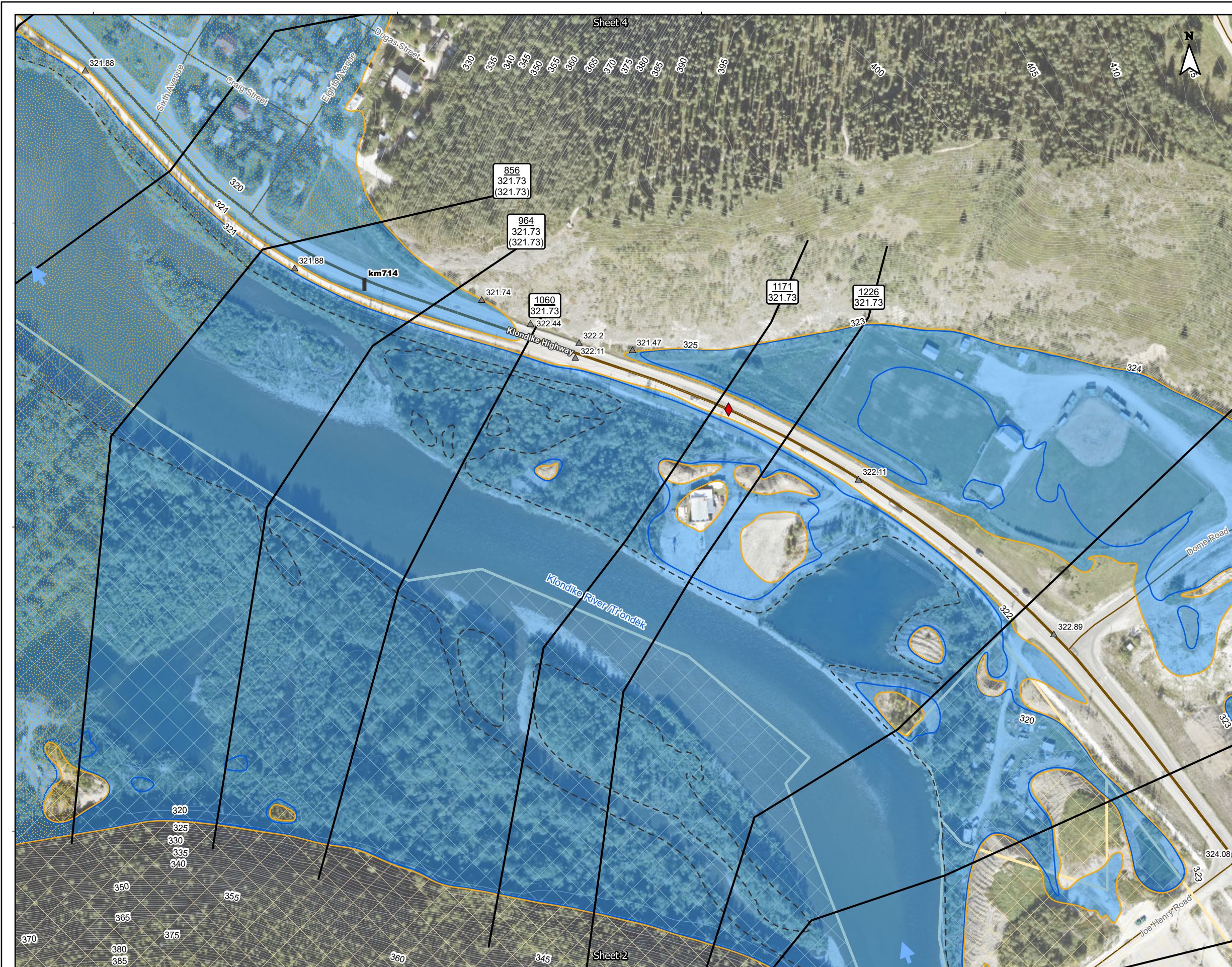
Project Location: Dawson, Yukon
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Requested by JMUIRHEAD on 2024-03-30
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- Highway Kilometer Post
- Tr'ondëk Hw'ech'in Settlement Land
- Cross-Section Number
- Approximate 50% AEP Open Water Flood Inundation
- WSE (m) Along Cross-Section
- Inundation Under Modelled Open Water Runs
- Cross-Section Number
- Inundation Under Modelled Breakup Ice Jam Runs
- WSE (m) Along Cross-Section (WSE in Dike Breach Scenario)
- Composite Open Water and Ice Jam Inundation Extent
- Highway
- Inundation Extent From Subsurface Seepage
- Local Road
- Inundation Under Dike Breach Scenario
- Major Contour (5m)
- Potential Presence of Ice Debris During Jam Scenario
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Ice Jamming Extents
- Toe of Ice Jam

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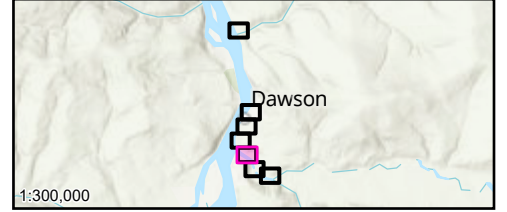
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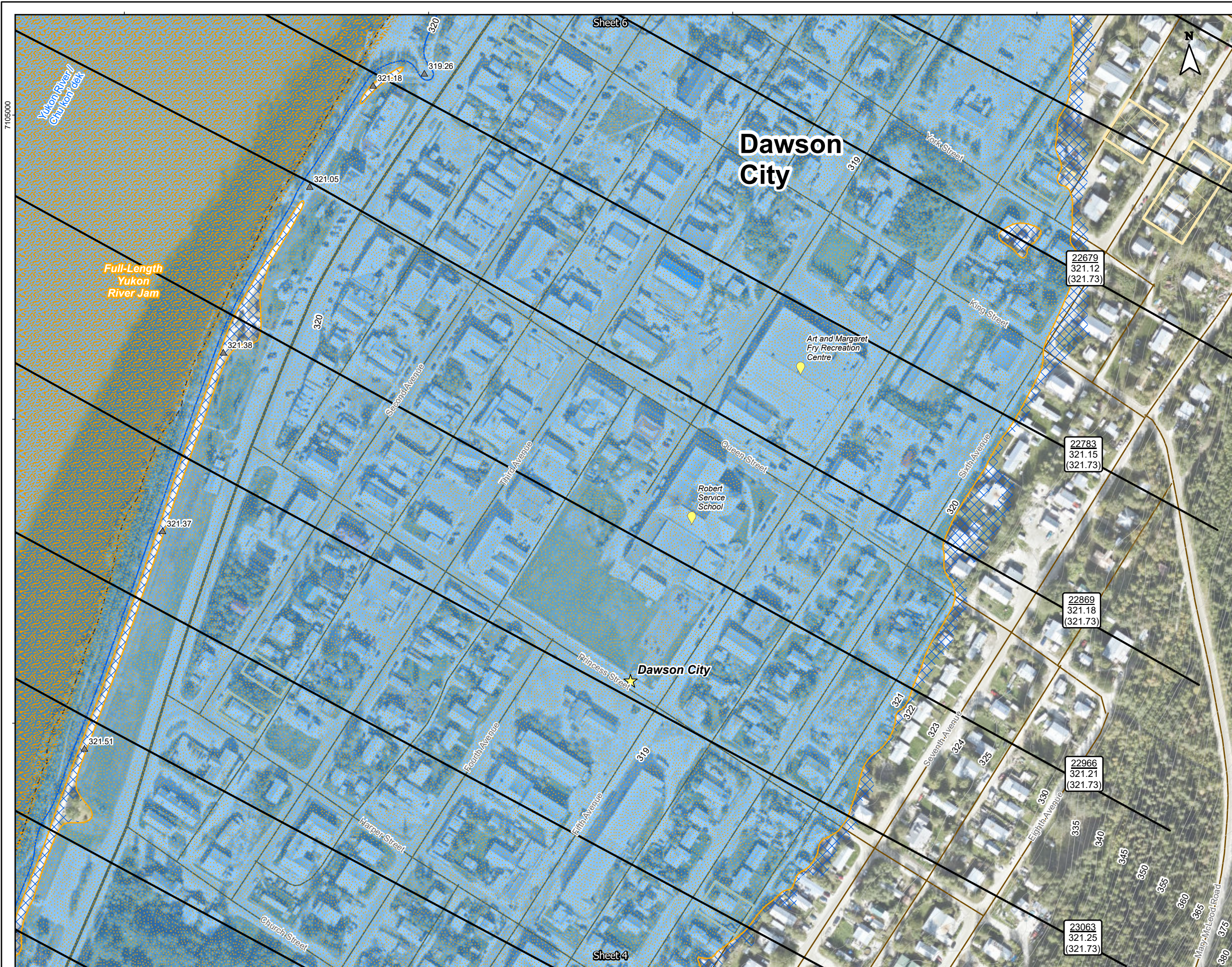
Project Location: Dawson, Yukon

- ▲ Ground Elevations of Interest
- Highway Kilometer Post
- ◆ HPW Drainage Culverts
- 57
517.2 Cross-Section Number
WSE (m) Along Cross-Section
- 22140
320.26
320.04 Cross-Section Number
WSE (m) Along Cross-Section
(WSE in Dike Breach Scenario)
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections
Used in Hydraulic Model
- Toe of Ice Jam
- 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
- Inundation Extent From Subsurface Seepage
- Inundation Under Dike Breach Scenario
- Potential Presence of Ice Debris During Jam Scenario
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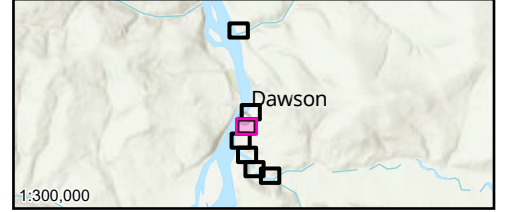
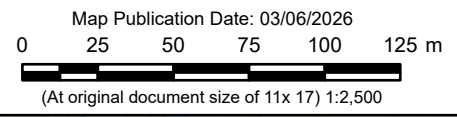
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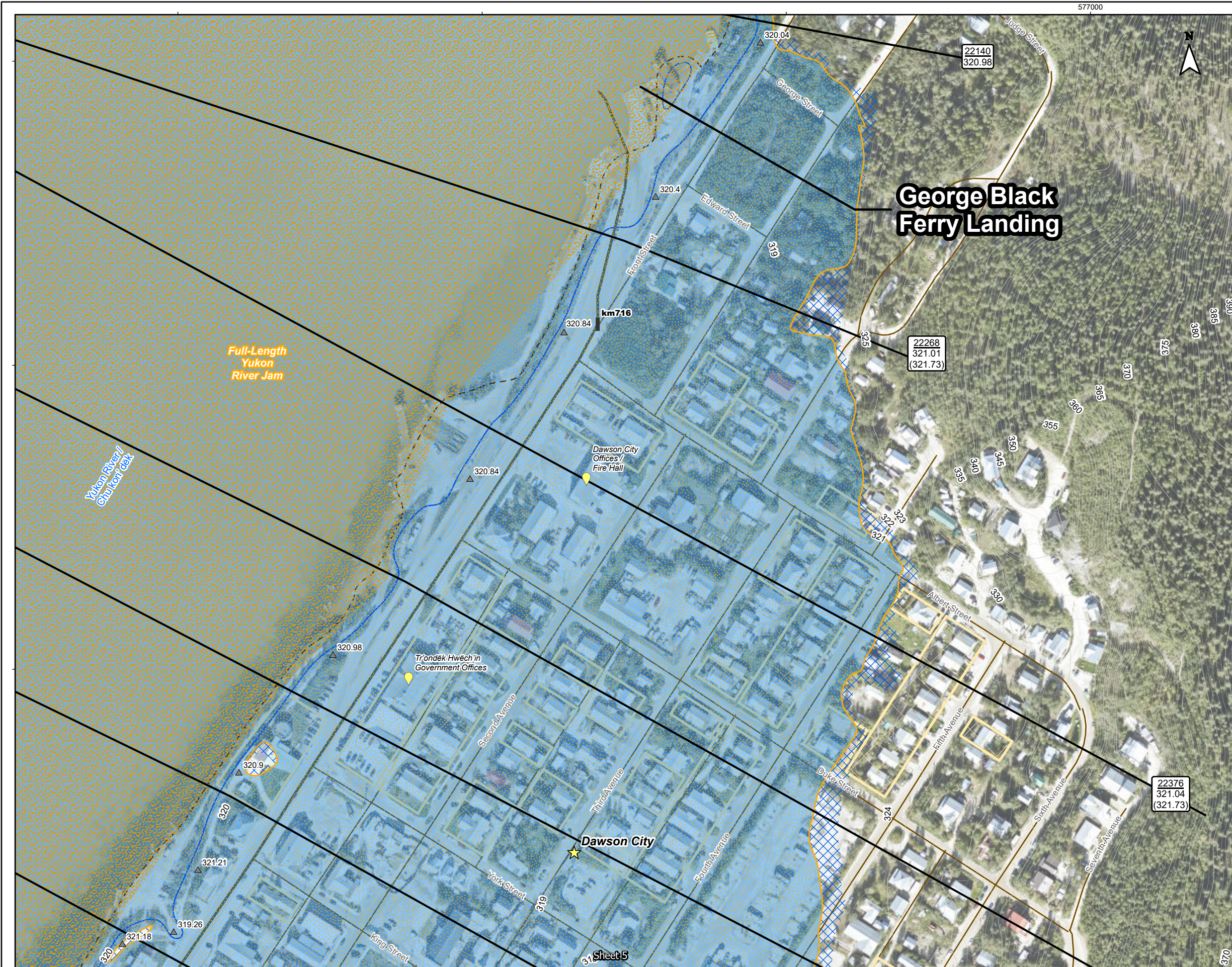
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- ★ Municipality
- Point of Interest
- Highway Kilometer Post
- 57
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320.26
320.04
Cross-Section Number
WSE (m) Along Cross-Section
(WSE in Dike Breach Scenario)
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections
Used in Hydraulic Model
- Toe of Ice Jam
- Tr'ondëk Hwëch'in Settlement
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- Inundation Under Modelled
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- Inundation Under Modelled
Breakup Ice Jam Runs
- Composite Open Water and
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- Inundation Extent From
Subsurface Seepage
- Inundation Under Dike
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- Potential Presence of Ice
Debris During Jam Scenario
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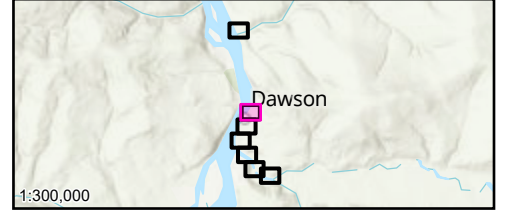
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Figure No. **DC-0.5-07** Sheet 07 of 07

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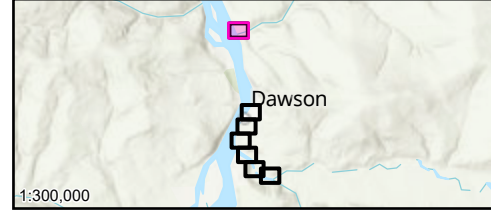
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- Ice Jamming Extents
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