

Sheet Footprint

**FLOOD HAZARD MODELLING**

- STN 0.0 Stationing
- ➔ Flow Direction
- Area of Interest
- LiDAR Extent

**ROAD NETWORK**

- Major Road
- Local Road

**BOUNDARY**

- Yukon Border/Boundary

The accuracy of the flood extent does not exceed the accuracy of the terrain data. AtkinsRéalis will not be held responsible for interpretations made by its users of this document.



**UPPER LIARD FLOOD MAPPING STUDY**

**Estimated 0.5% Annual Exceedance Probability (AEP) Event Under Climate Change Conditions**

Sources :  
 CANVEC, 1 : 50,000, NR Canada, 2025  
 LiDAR capture by McElhanney Ltd on August 2 and 8, 2024  
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Flood Hazard Modelling, AtkinsRéalis, December 2025

Project 705450

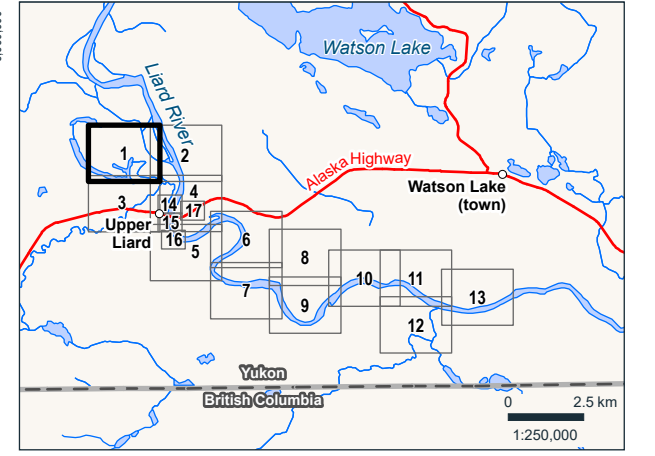
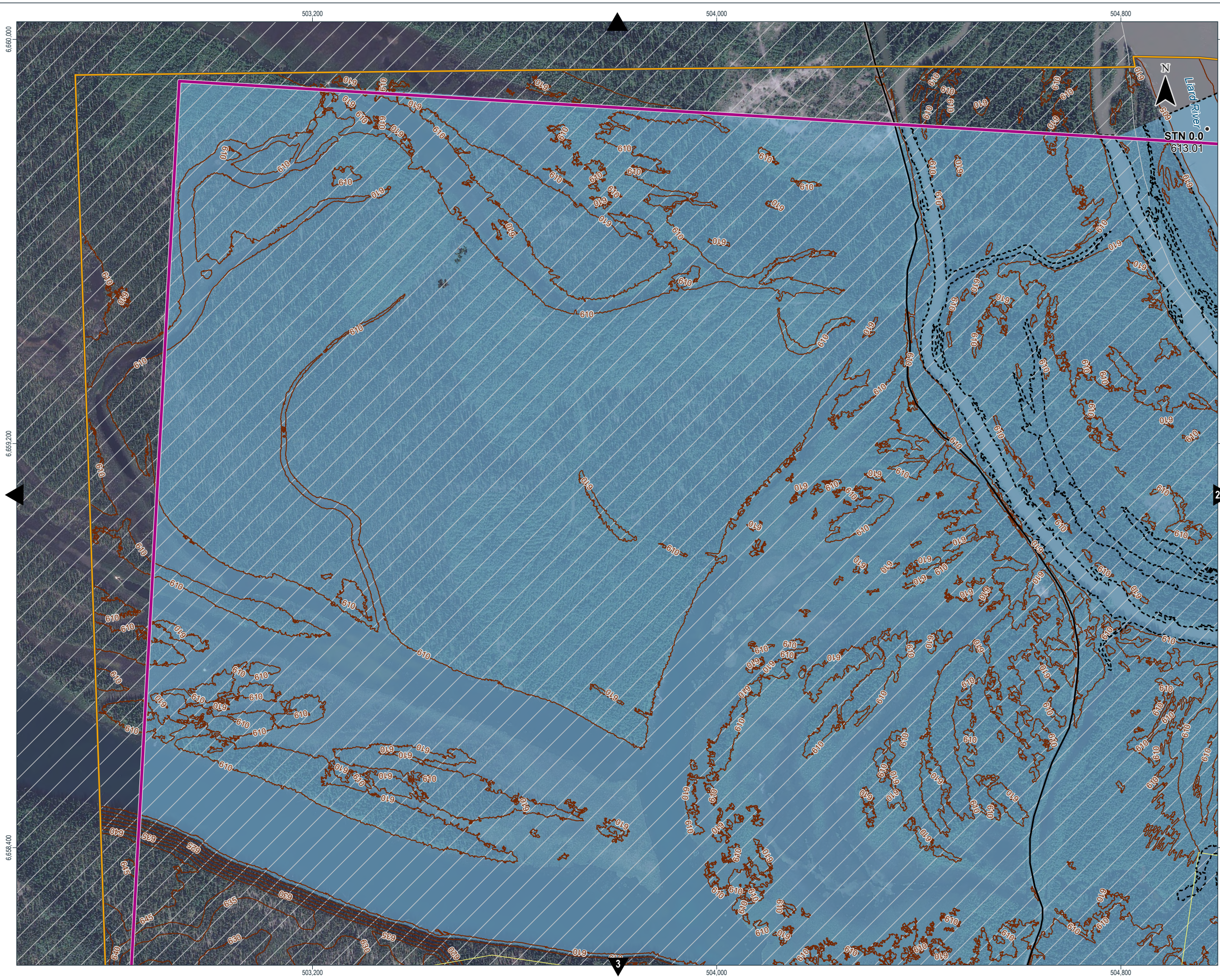
Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a

**FINAL**



March 2026

Index Map



- FLOOD HAZARD MODELLING**
- STN 0.0 Stationing
  - 611.04 Inundation Levels (m)
  - 611.13 Ground Levels (m)
  - — — Average Annual Peak (50% AEP)
  - Flood Inundation 0.5% AEP
  - Flow Direction
  - Area of Interest
  - LiDAR Extent
- ROAD NETWORK**
- ◆ Bridge
  - Culvert
  - Major Road
  - Local Road
  - Road (unmaintained)
- TOPOGRAPHY**
- 600— Index Contour - 5 m Interval
- BOUNDARY**
- ▨ First Nation Settlement Lands - Unsurveyed
  - Land Parcel

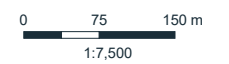


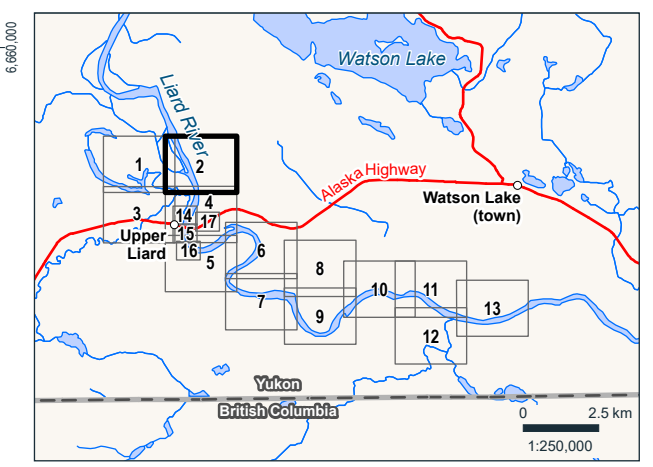
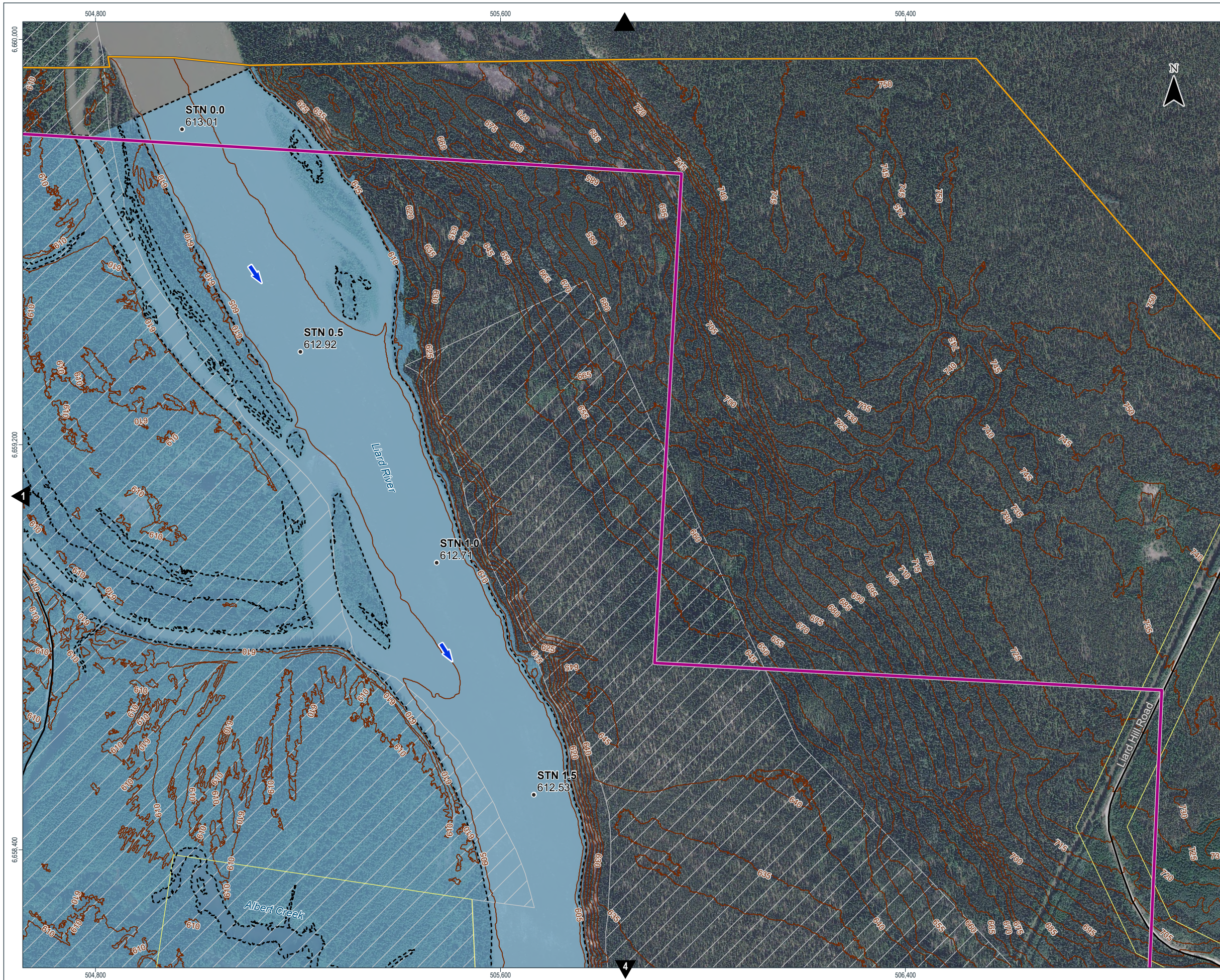
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  - Pink Area Area of Interest
  - Yellow Area LiDAR Extent
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- Brown Line Index Contour - 5 m Interval
- BOUNDARY**
- White Area First Nation Settlement Lands - Unsurveyed
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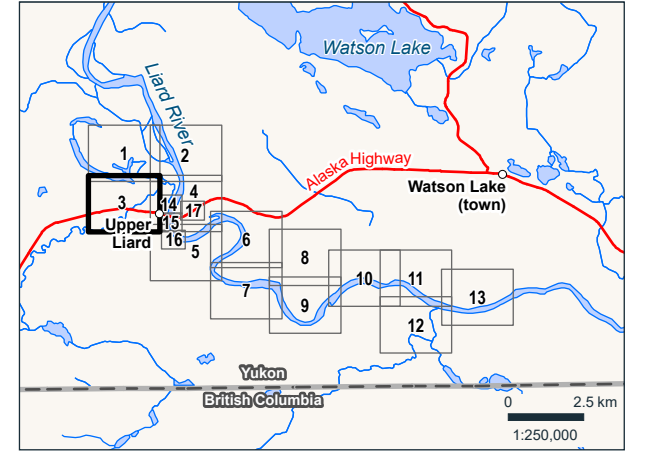
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**ROAD NETWORK**

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- Road (unmaintained)

**TOPOGRAPHY**

- 600— Index Contour - 5 m Interval

**BOUNDARY**

- First Nation Settlement Lands - Unsurveyed
- Land Parcel



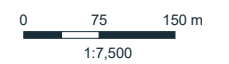
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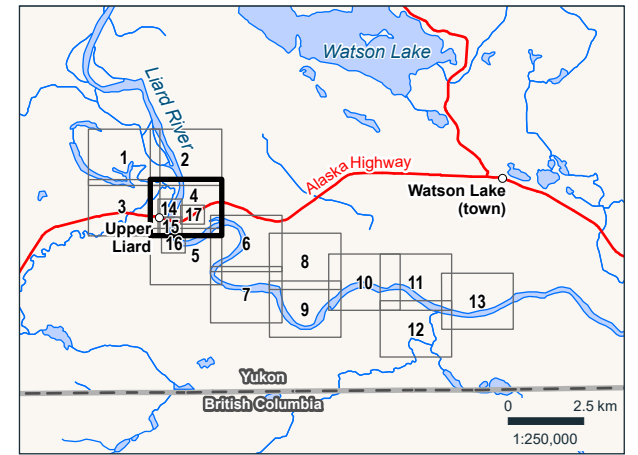
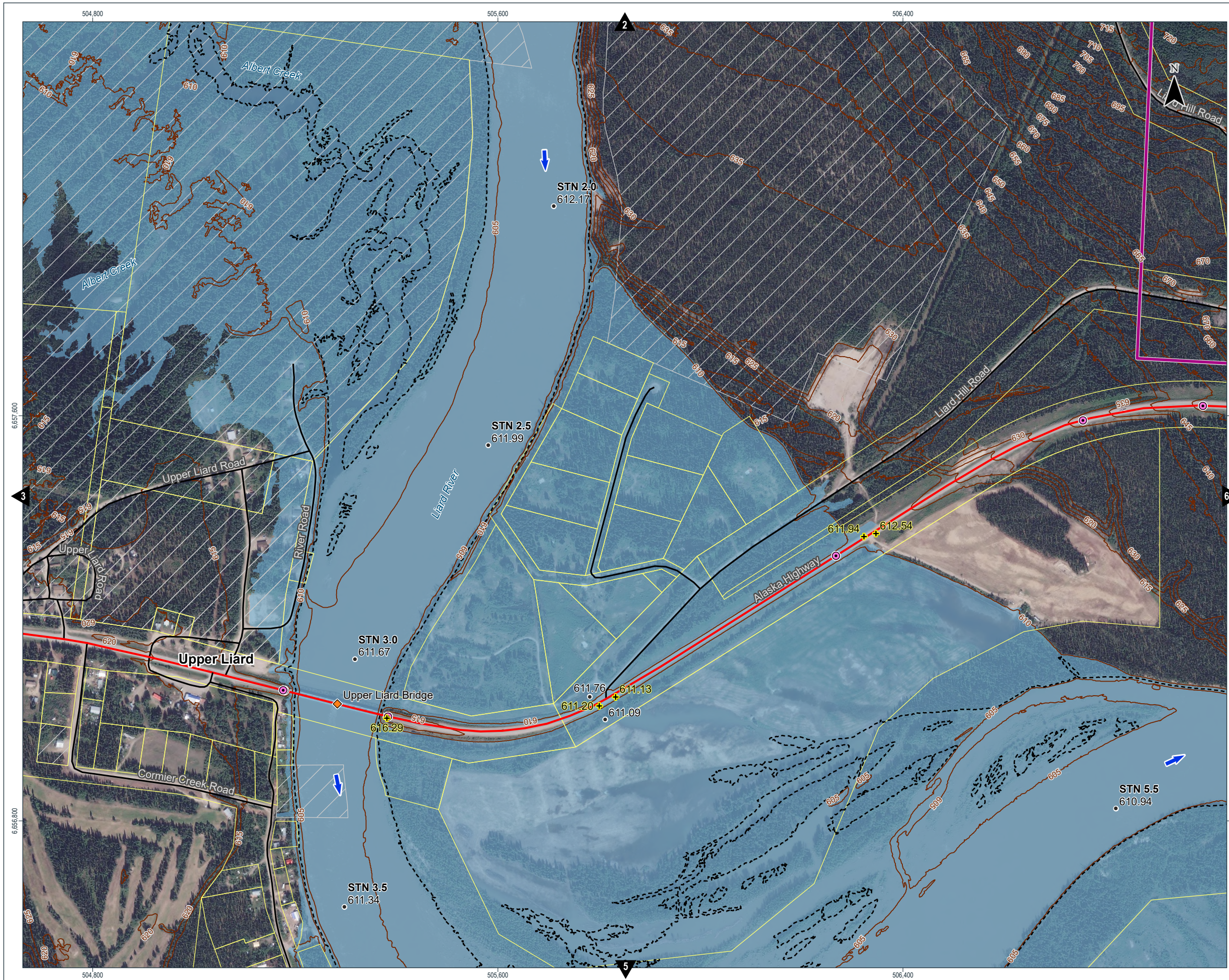
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March 2026

Sheet 3 of 17



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- Blue Arrow** Flow Direction
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**ROAD NETWORK**

- Orange Diamond** Bridge
- Purple Circle** Culvert
- Red Line** Major Road
- Black Line** Local Road
- Grey Line** Road (unmaintained)

**TOPOGRAPHY**

- Brown Line** Index Contour - 5 m Interval

**BOUNDARY**

- White Area** First Nation Settlement Lands - Unsurveyed
- Yellow Area** Land Parcel



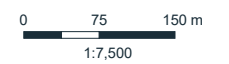
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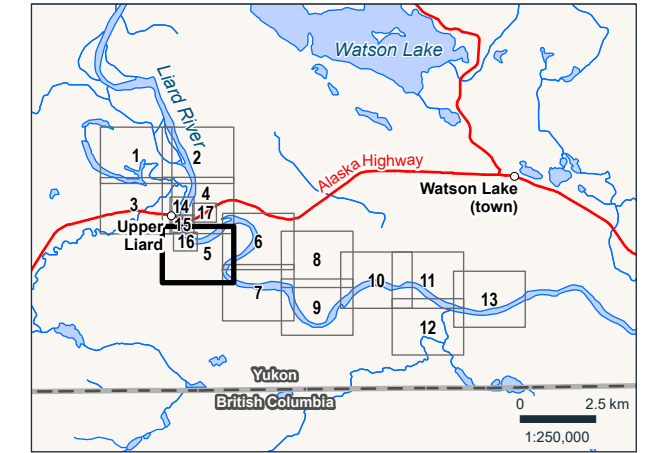
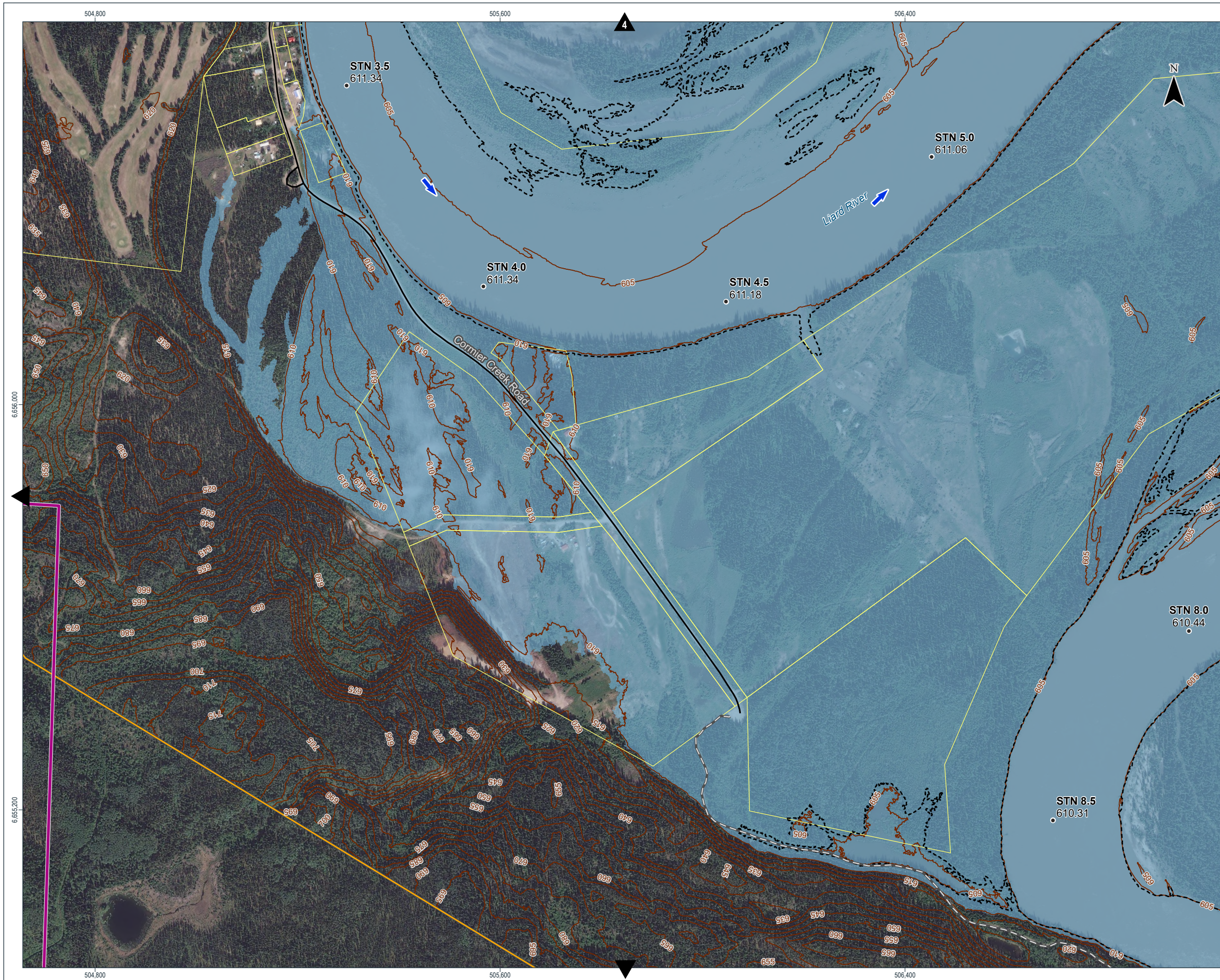
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**FINAL**



March 2026

Sheet 4 of 17



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**ROAD NETWORK**

- ◆ Bridge
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**TOPOGRAPHY**

- 600 — Index Contour - 5 m Interval

**BOUNDARY**

- ▭ First Nation Settlement Lands - Unsurveyed
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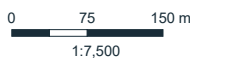
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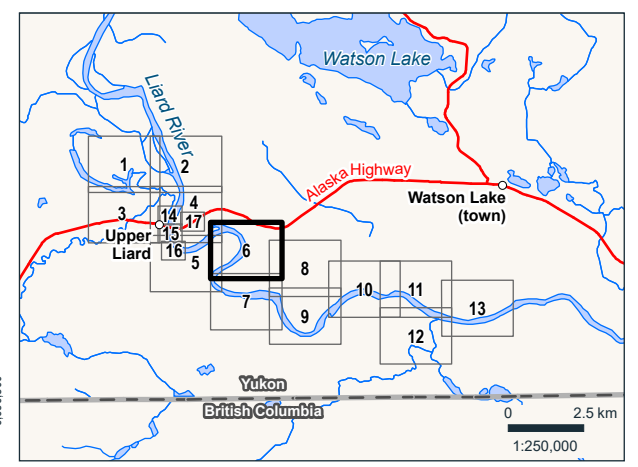
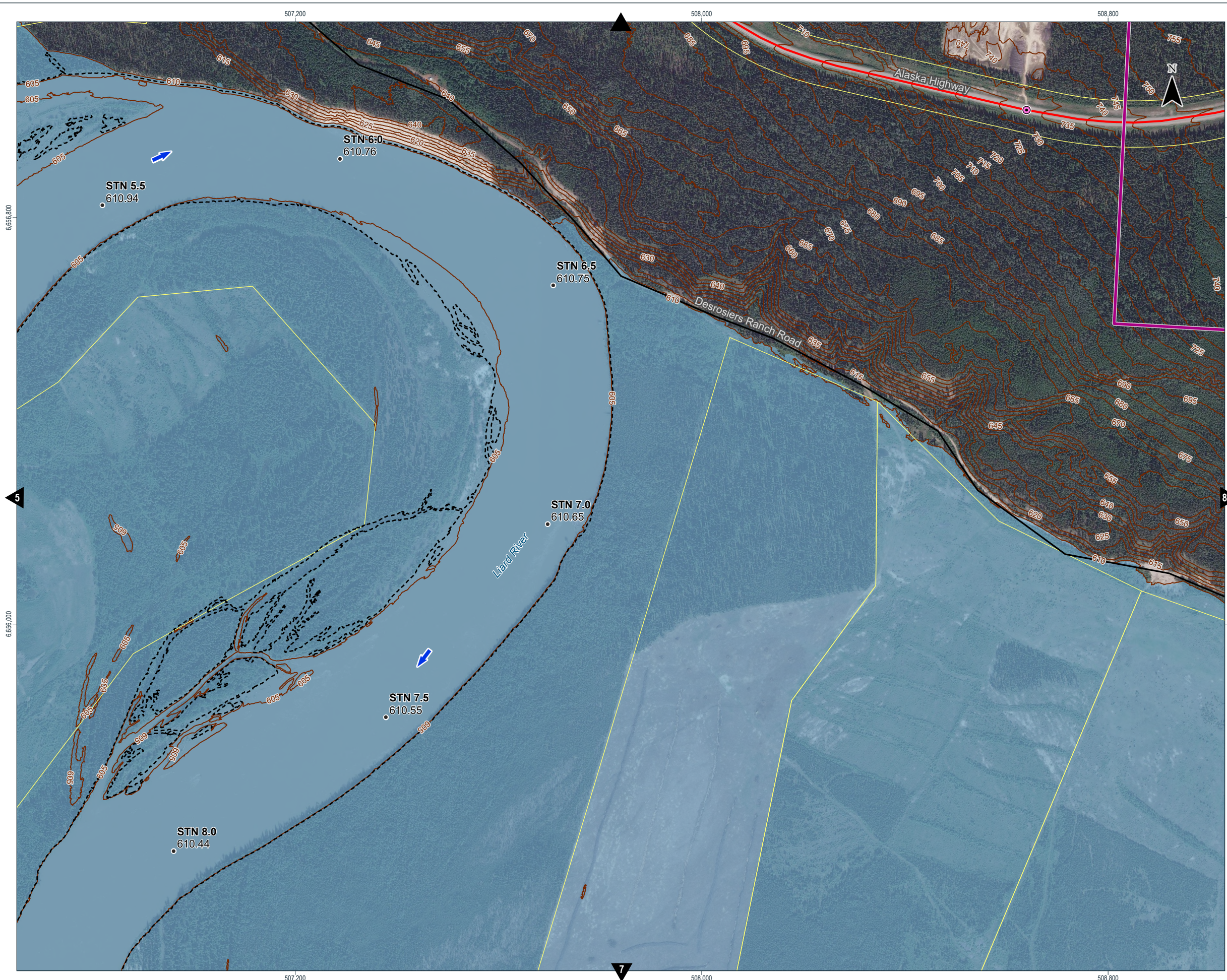
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**FINAL**



March 2026

Sheet 5 of 17



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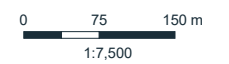


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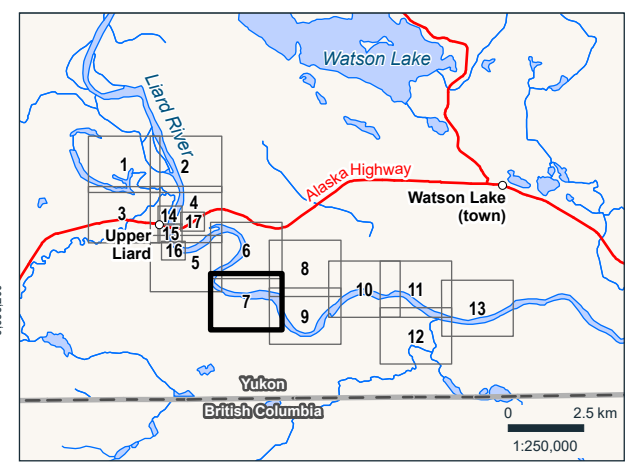
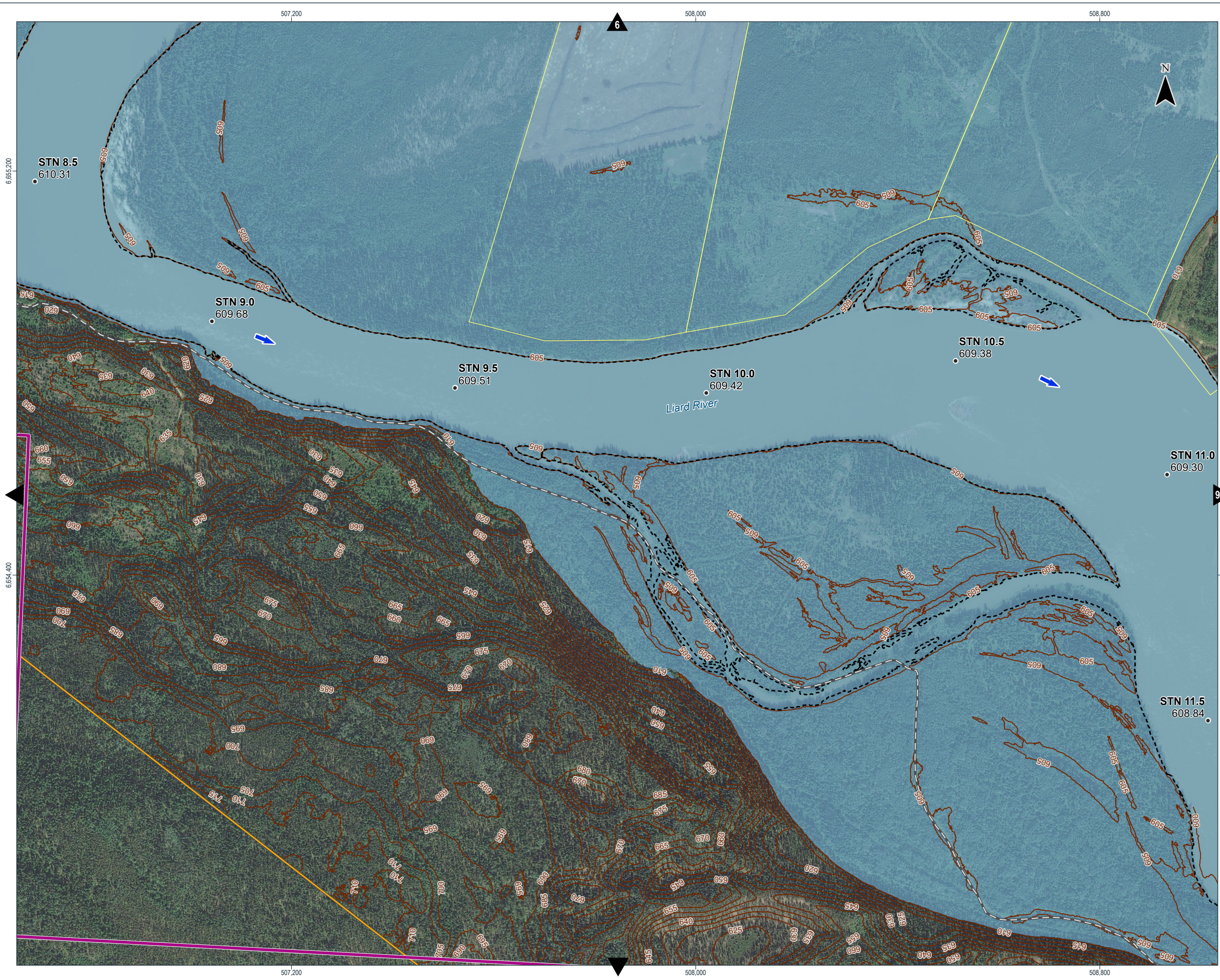
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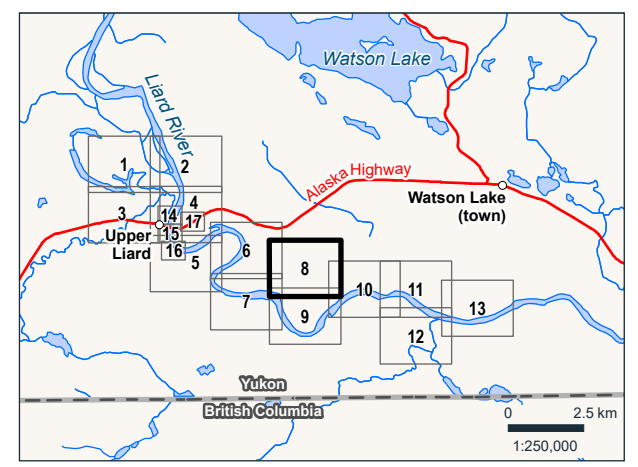
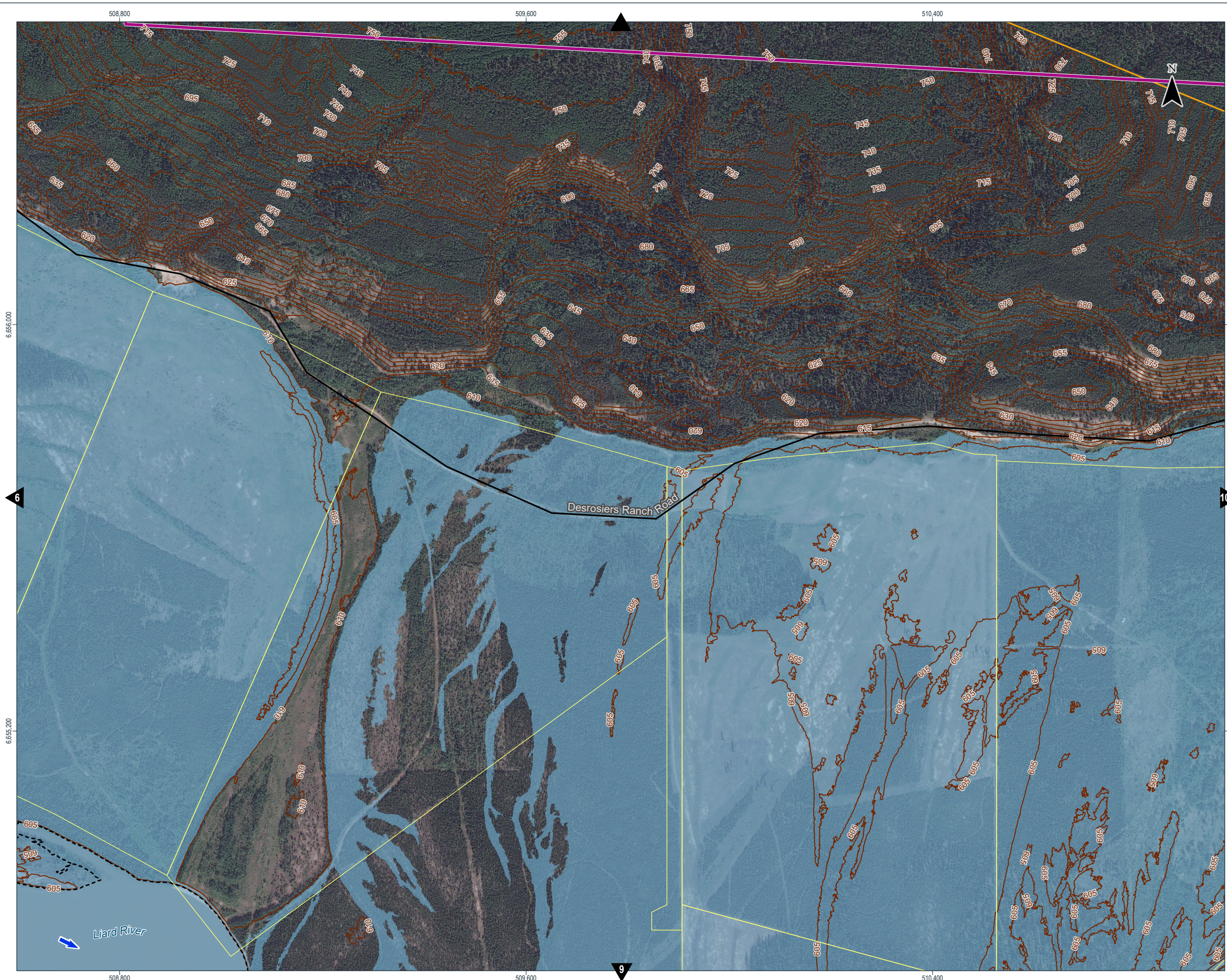
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**FINAL**

0 75 150 m  
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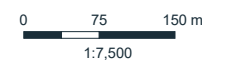


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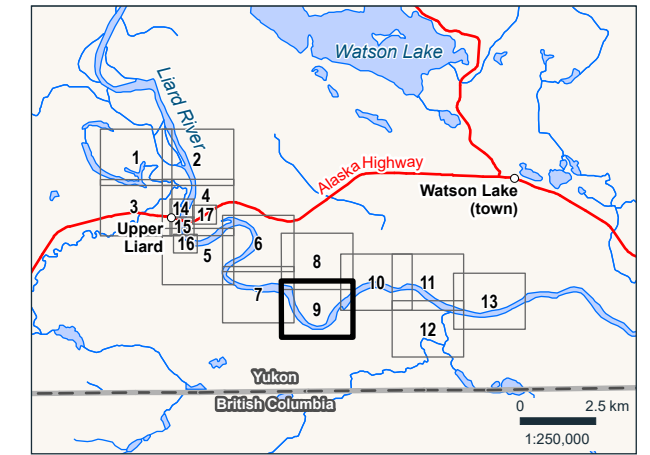
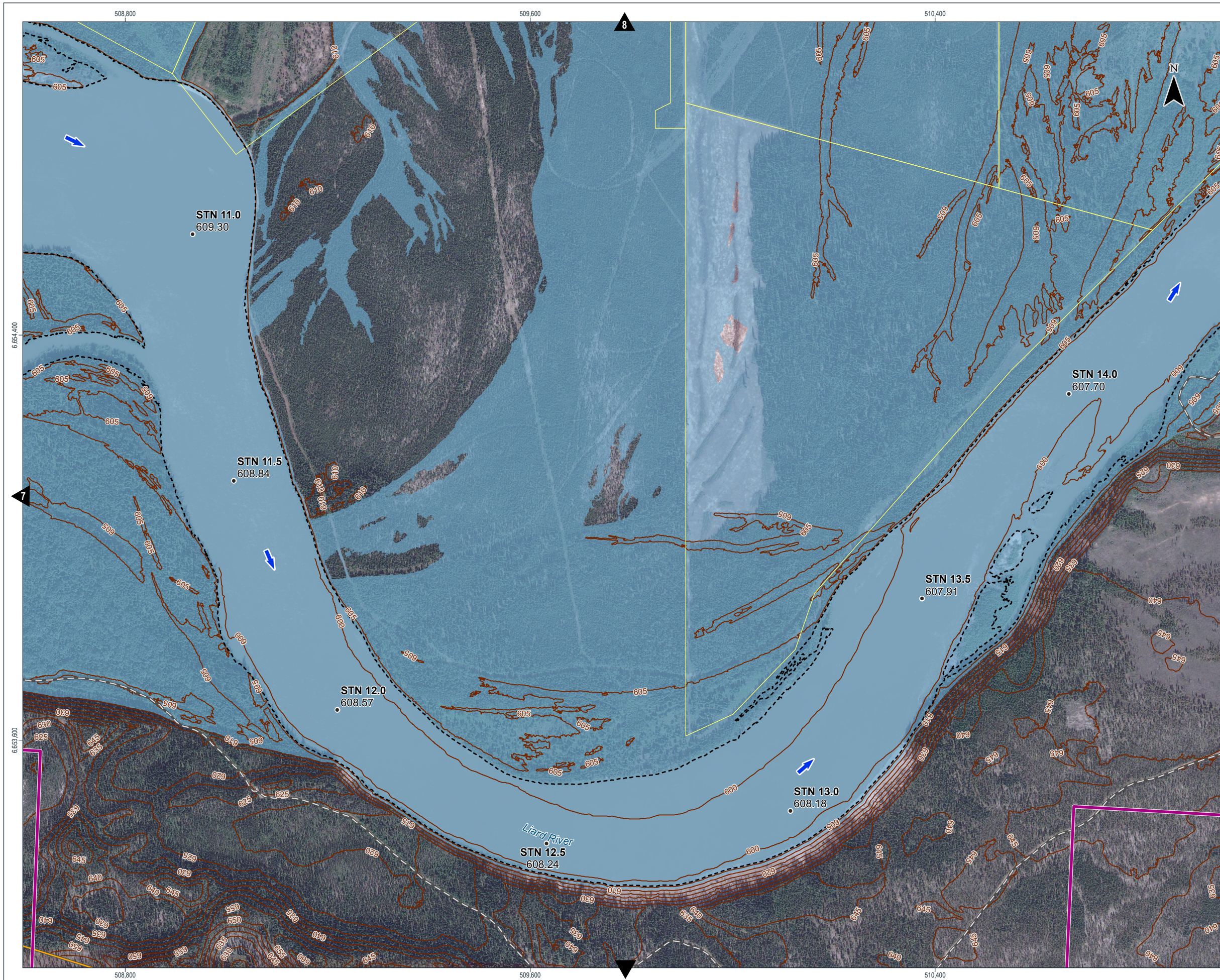
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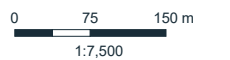
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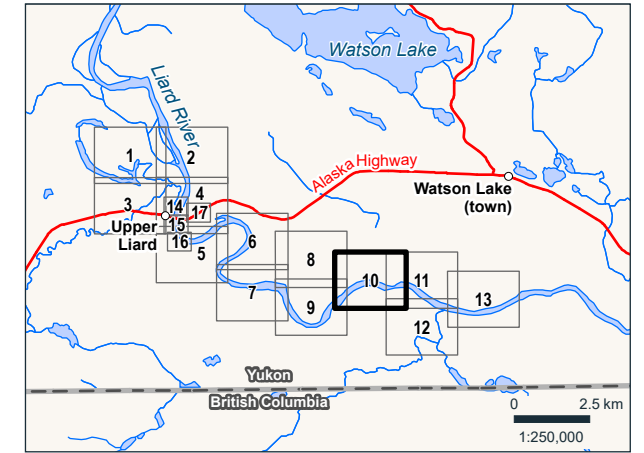
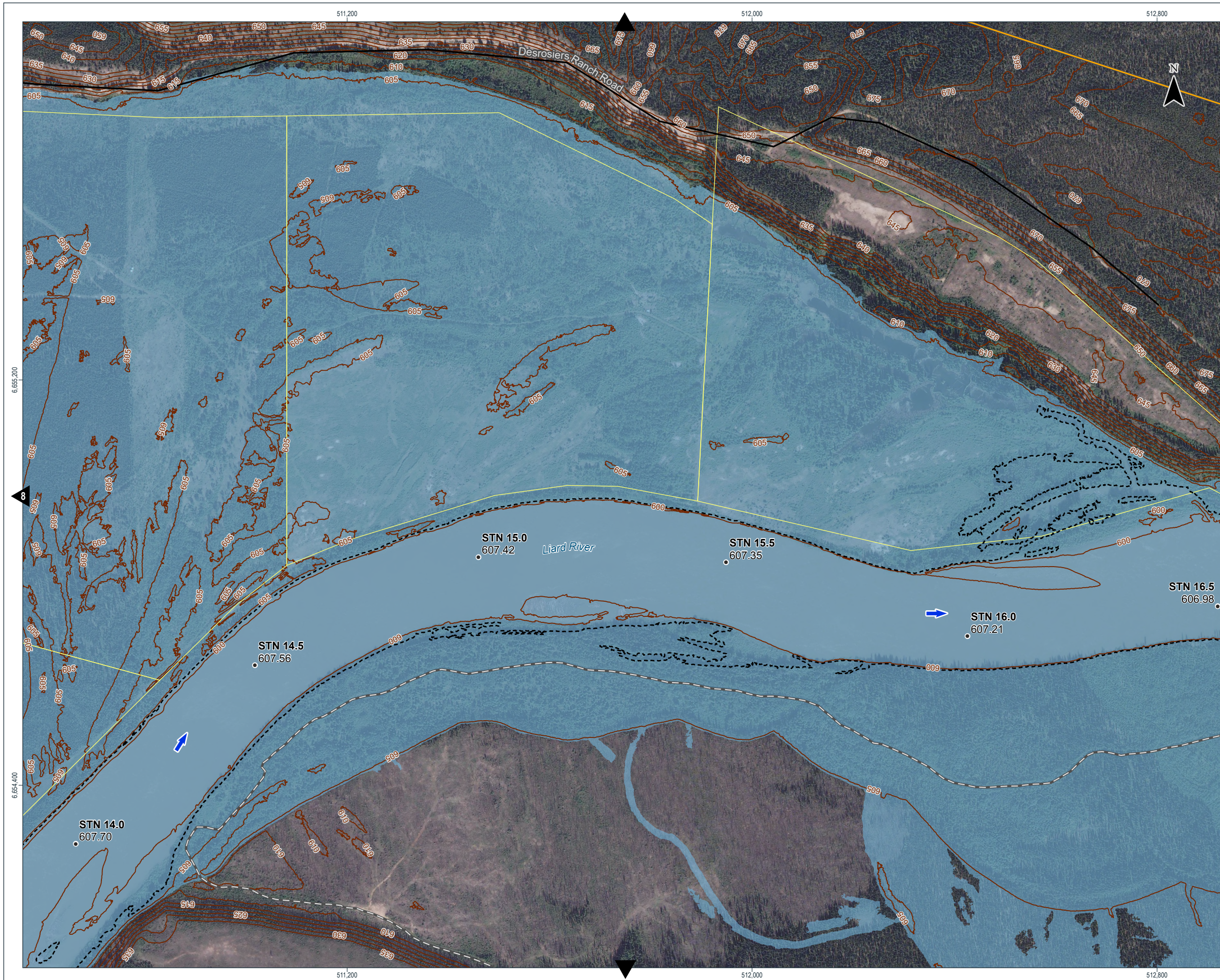
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March 2026

Sheet 9 of 17



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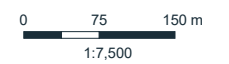
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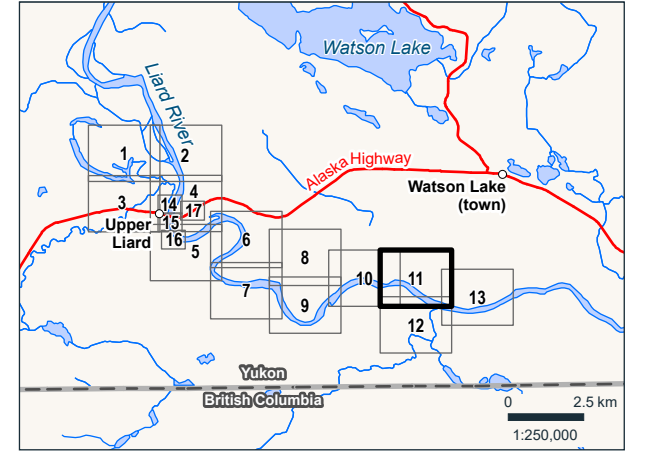
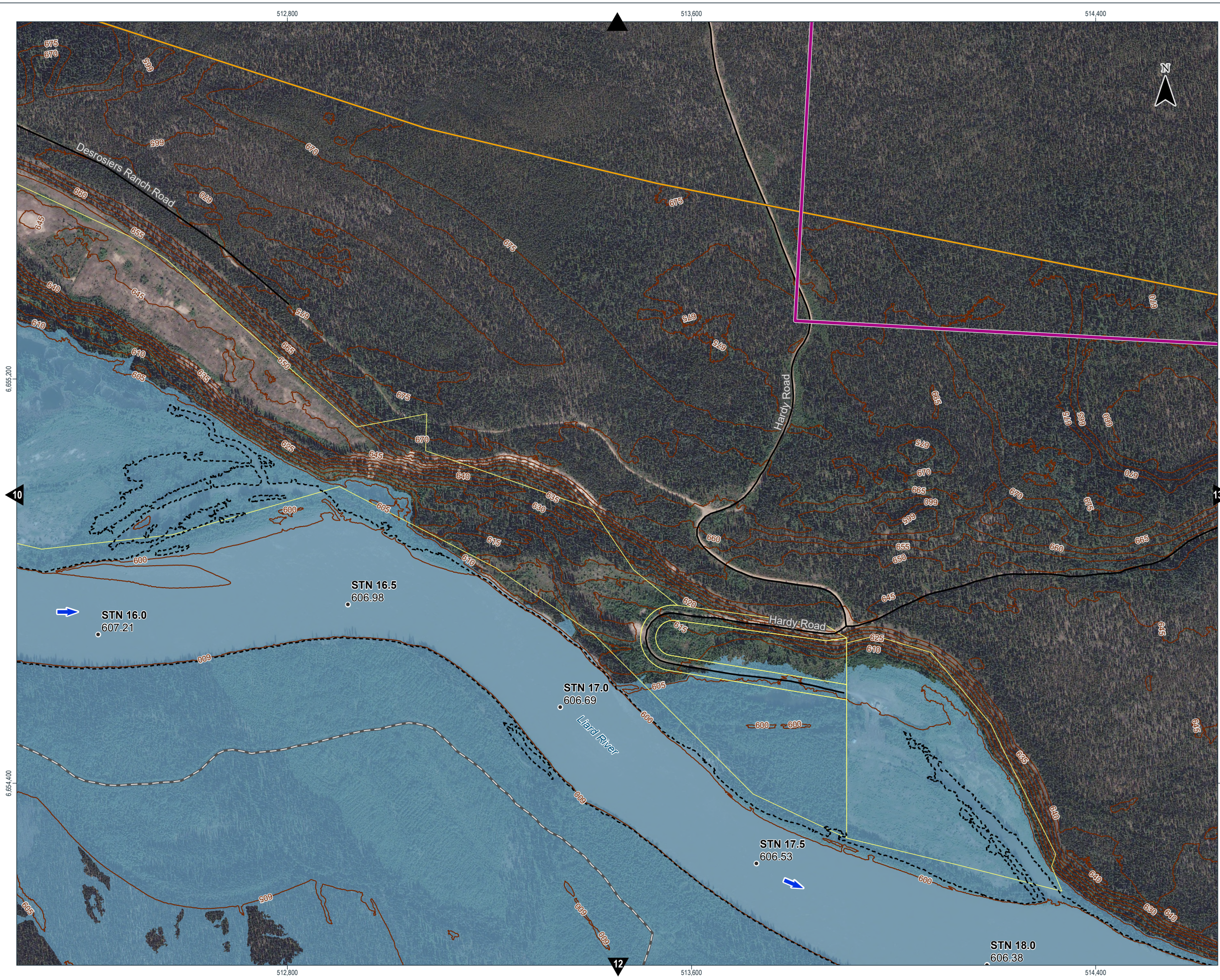
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**FINAL**



March 2026

Sheet 10 of 17



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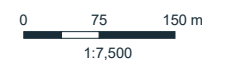
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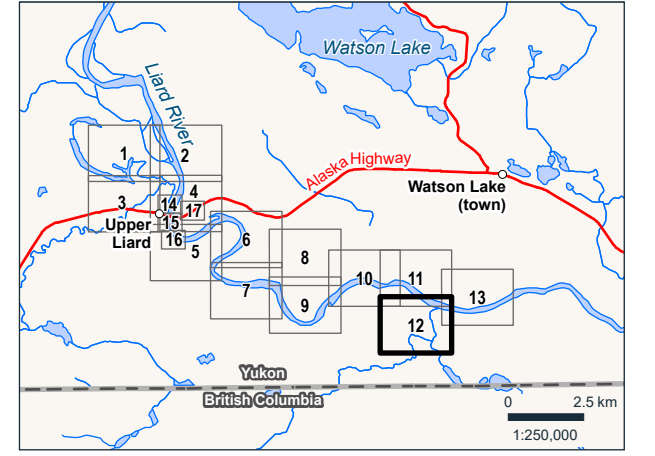
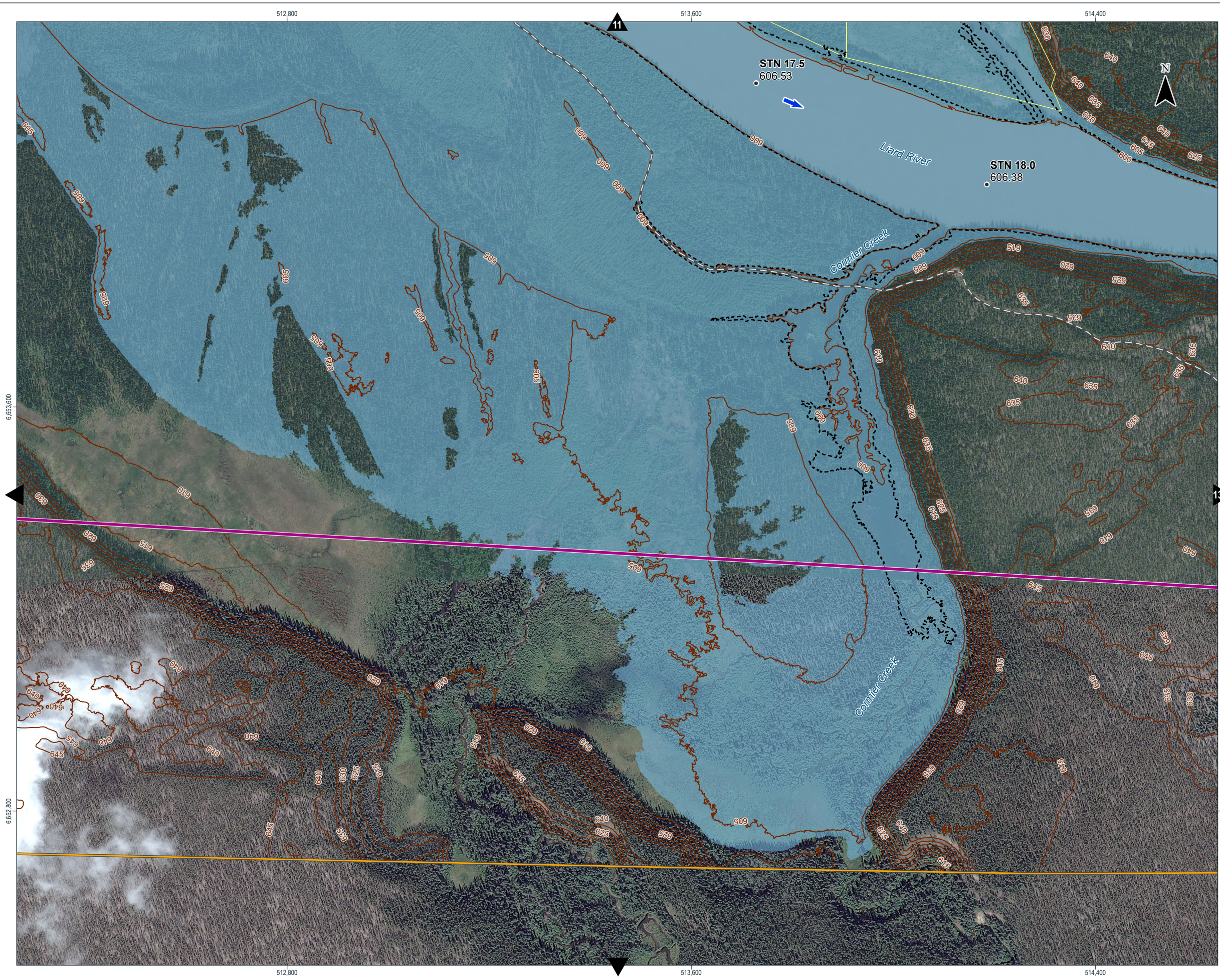
Project 705450  
 Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a

**FINAL**



March 2026

Sheet 11 of 17



- FLOOD HAZARD MODELLING**
- STN 0.0** Stationing
  - 611.04** Inundation Levels (m)
  - 611.13** Ground Levels (m)
  - Average Annual Peak (50% AEP)
  - Flood Inundation 0.5% AEP
  - Flow Direction
  - Area of Interest
  - LiDAR Extent
- ROAD NETWORK**
- ◆** Bridge
  - Culvert
  - Major Road
  - Local Road
  - Road (unmaintained)
- TOPOGRAPHY**
- 600—** Index Contour - 5 m Interval
- BOUNDARY**
- ▨** First Nation Settlement Lands - Unsurveyed
  - Land Parcel

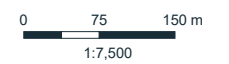


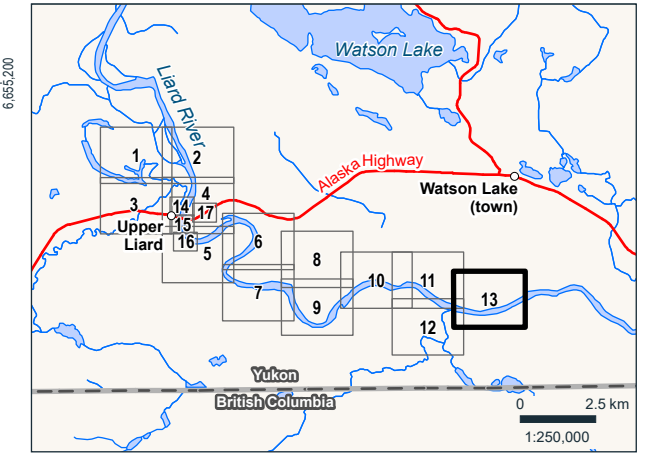
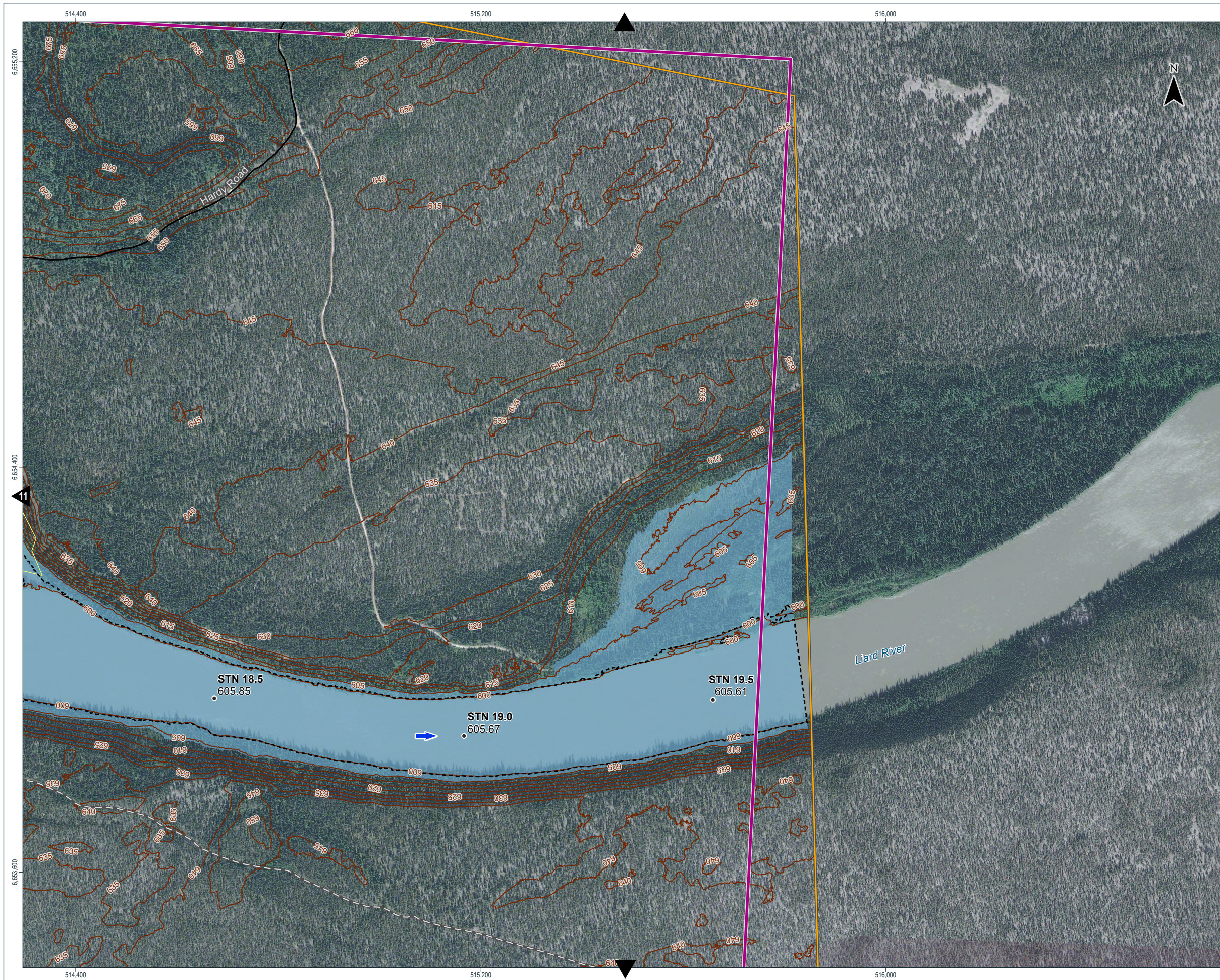
**UPPER LIARD FLOOD MAPPING STUDY**

**Estimated 0.5% Annual Exceedance Probability (AEP) Event Under Climate Change Conditions**

Sources :  
 CANVEC, 1 : 50,000, NR Canada, 2025  
 LiDAR capture by McElhannay Ltd on August 2 and 8, 2024  
 Bathymetry Survey by AtkinsRéalis from June 4 to 18, 2025  
 Contour Lines derived from LiDAR survey, Government of Yukon  
 GeoYukon, Map Services, Government of Yukon, 2025 (Yukon Road Network; Yukon Borders - Surveyed; First Nation Settlement Lands - Unsurveyed; Yukon Place Names)  
 High resolution satellite images, Government of Yukon, updated to 2023 acquisitions  
 Flood Hazard Modelling, AtkinsRéalis, December 2025

Project 705450  
 Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a  
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**FLOOD HAZARD MODELLING**

- STN 0.0** Stationing
- 611.04 Inundation Levels (m)
- + 611.13 Ground Levels (m)
- - - Average Annual Peak (50% AEP)
- Flood Inundation 0.5% AEP
- ➔ Flow Direction
- ▭ Area of Interest
- ▭ LiDAR Extent

**ROAD NETWORK**

- ◆ Bridge
- Culvert
- Major Road
- Local Road
- Road (unmaintained)

**TOPOGRAPHY**

- 600— Index Contour - 5 m Interval

**BOUNDARY**

- ▭ First Nation Settlement Lands - Unsurveyed
- ▭ Land Parcel



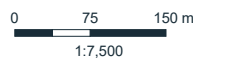
**UPPER LIARD FLOOD MAPPING STUDY**

**Estimated 0.5% Annual Exceedance Probability (AEP) Event Under Climate Change Conditions**

Sources :  
 CANVEC, 1 : 50,000, NR Canada, 2025  
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 Flood Hazard Modelling, AtkinsRéalis, December 2025

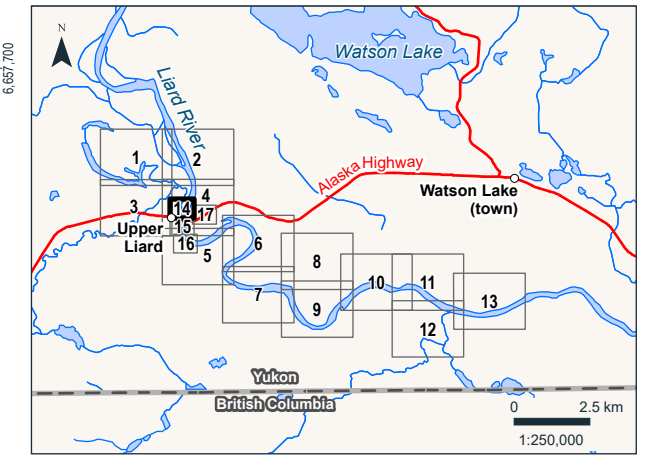
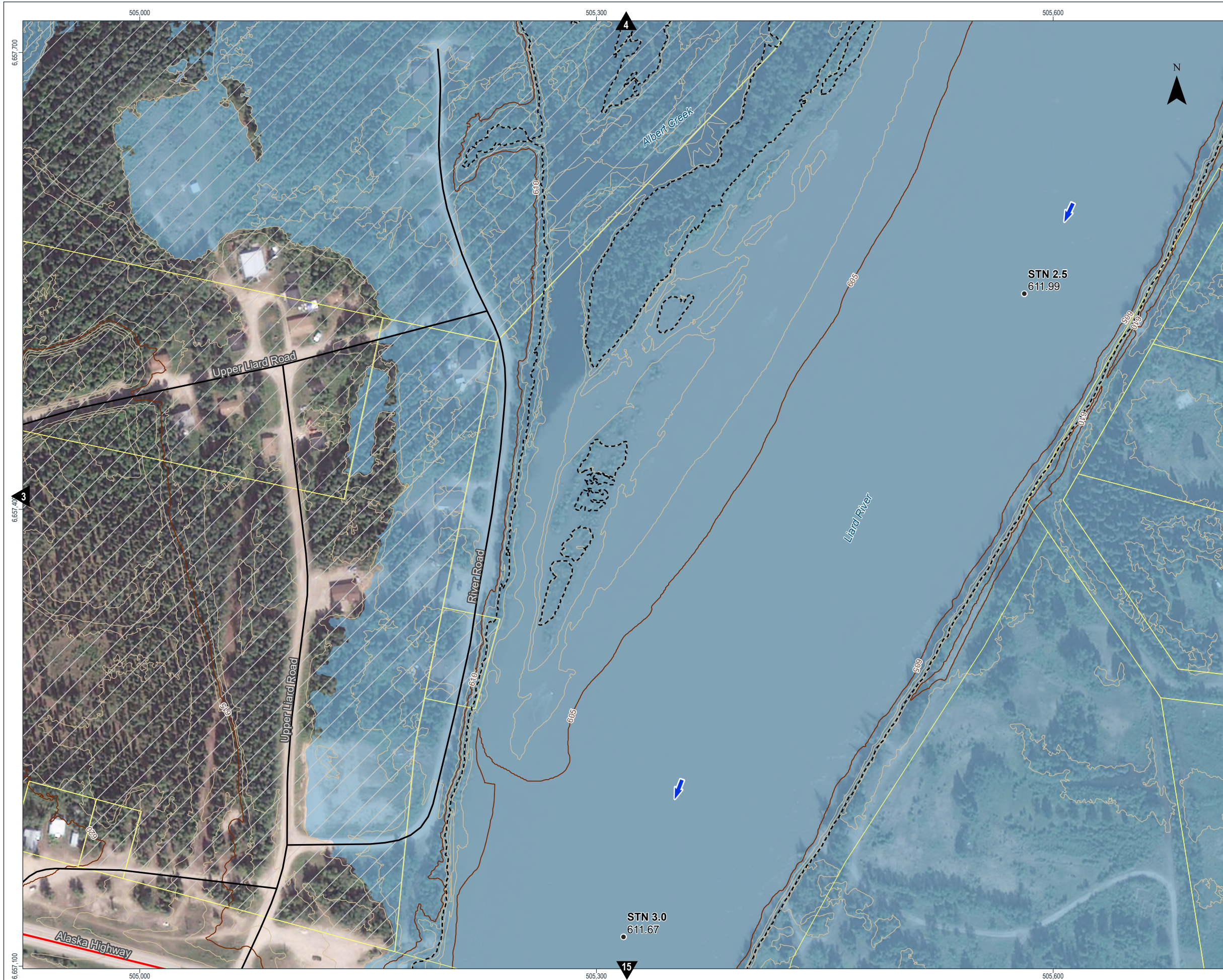
Project 705450  
 Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a

**FINAL**



March 2026

Sheet 13 of 17



**FLOOD HAZARD MODELLING**

- STN 0.0** Stationing
- 611.04 Inundation Levels (m)
- + 611.13 Ground Levels (m)
- Average Annual Peak (50% AEP)
- Flood Inundation 0.5% AEP
- ➔ Flow Direction
- ▭ Area of Interest
- ▭ LiDAR Extent

**ROAD NETWORK**

- ◆ Bridge
- Culvert
- Major Road
- Local Road
- Road (unmaintained)

**TOPOGRAPHY**

- 600— Index Contour - 5 m Interval
- Contour - 1 m Interval

**BOUNDARY**

- ▨ First Nation Settlement Lands - Unsurveyed
- ▭ Land Parcel



**UPPER LIARD FLOOD MAPPING STUDY**

**Estimated 0.5% Annual Exceedance Probability (AEP) Event Under Climate Change Conditions**

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 Flood Hazard Modelling, AtkinsRéalis, December 2025

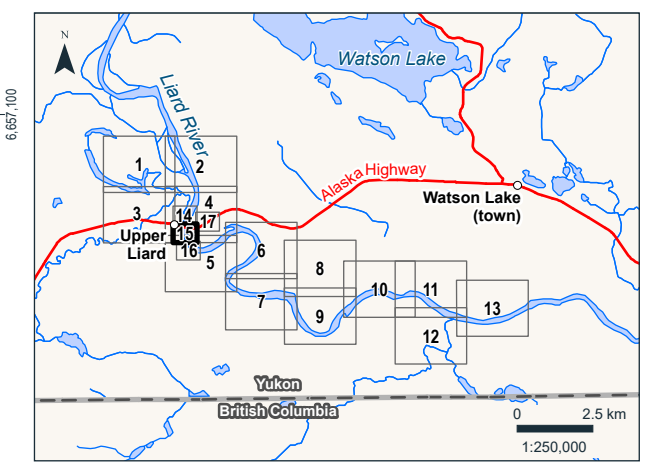
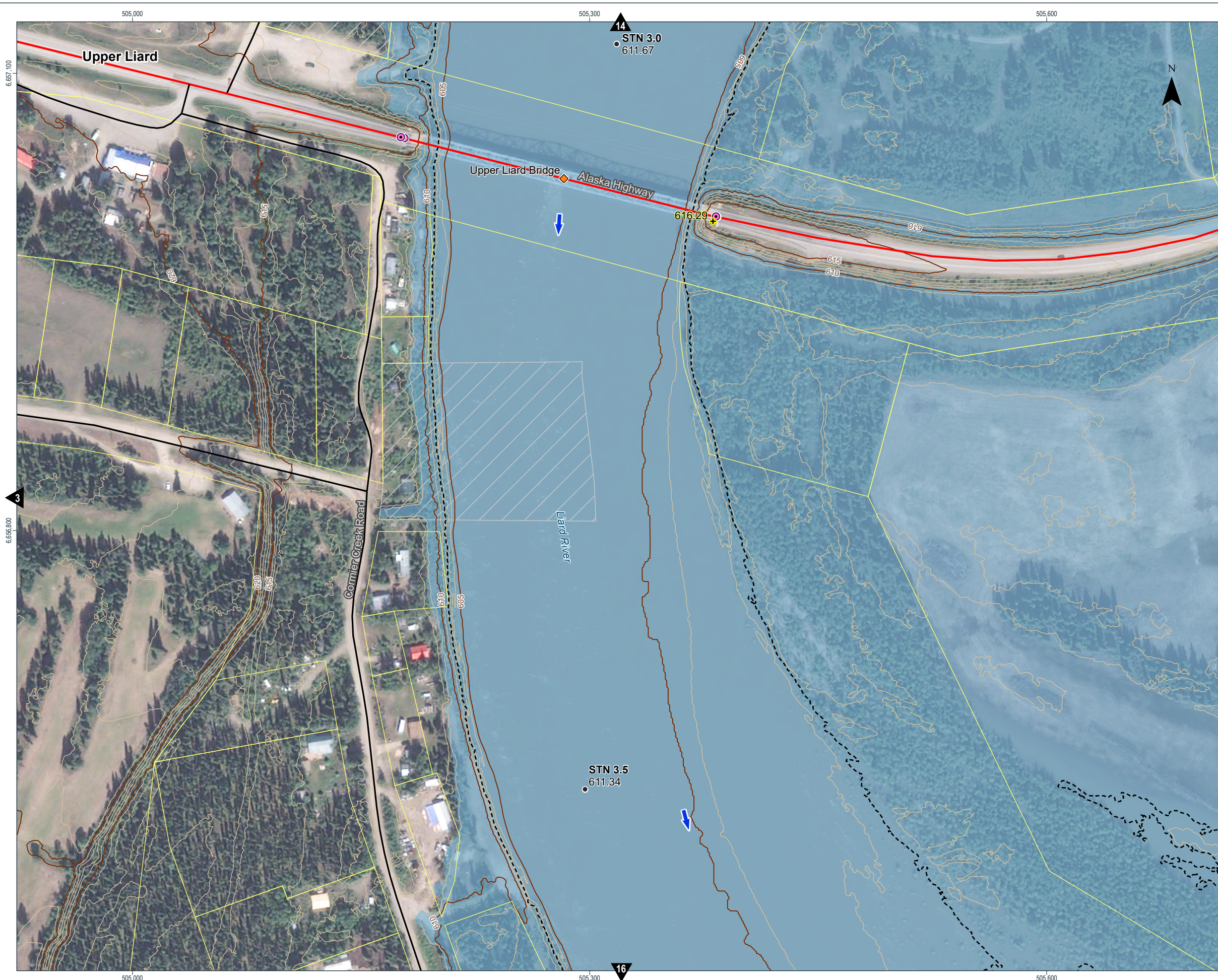
Project 705450  
 Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a



**FINAL**

March 2026

Sheet 14 of 17



- FLOOD HAZARD MODELLING**
- STN 0.0 Stationing
  - 611.04 Inundation Levels (m)
  - + 611.13 Ground Levels (m)
  - Average Annual Peak (50% AEP)
  - Flood Inundation 0.5% AEP
  - ➔ Flow Direction
  - Area of Interest
  - LiDAR Extent

- ROAD NETWORK**
- ◆ Bridge
  - Culvert
  - Major Road
  - Local Road
  - Road (unmaintained)

- TOPOGRAPHY**
- 600— Index Contour - 5 m Interval
  - Contour - 1 m Interval

- BOUNDARY**
- ▨ First Nation Settlement Lands - Unsurveyed
  - Land Parcel



**UPPER LIARD FLOOD MAPPING STUDY**

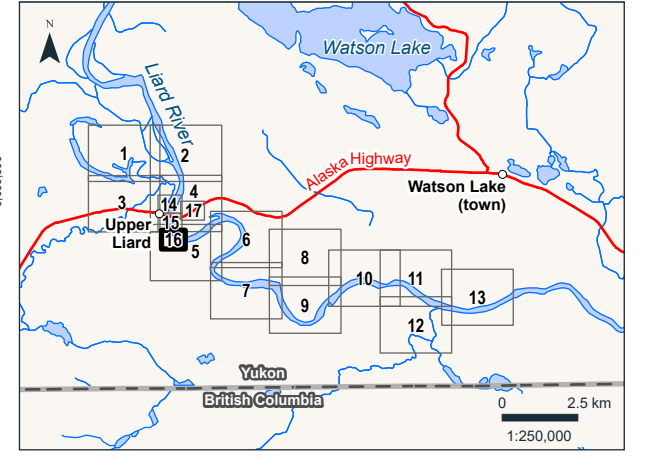
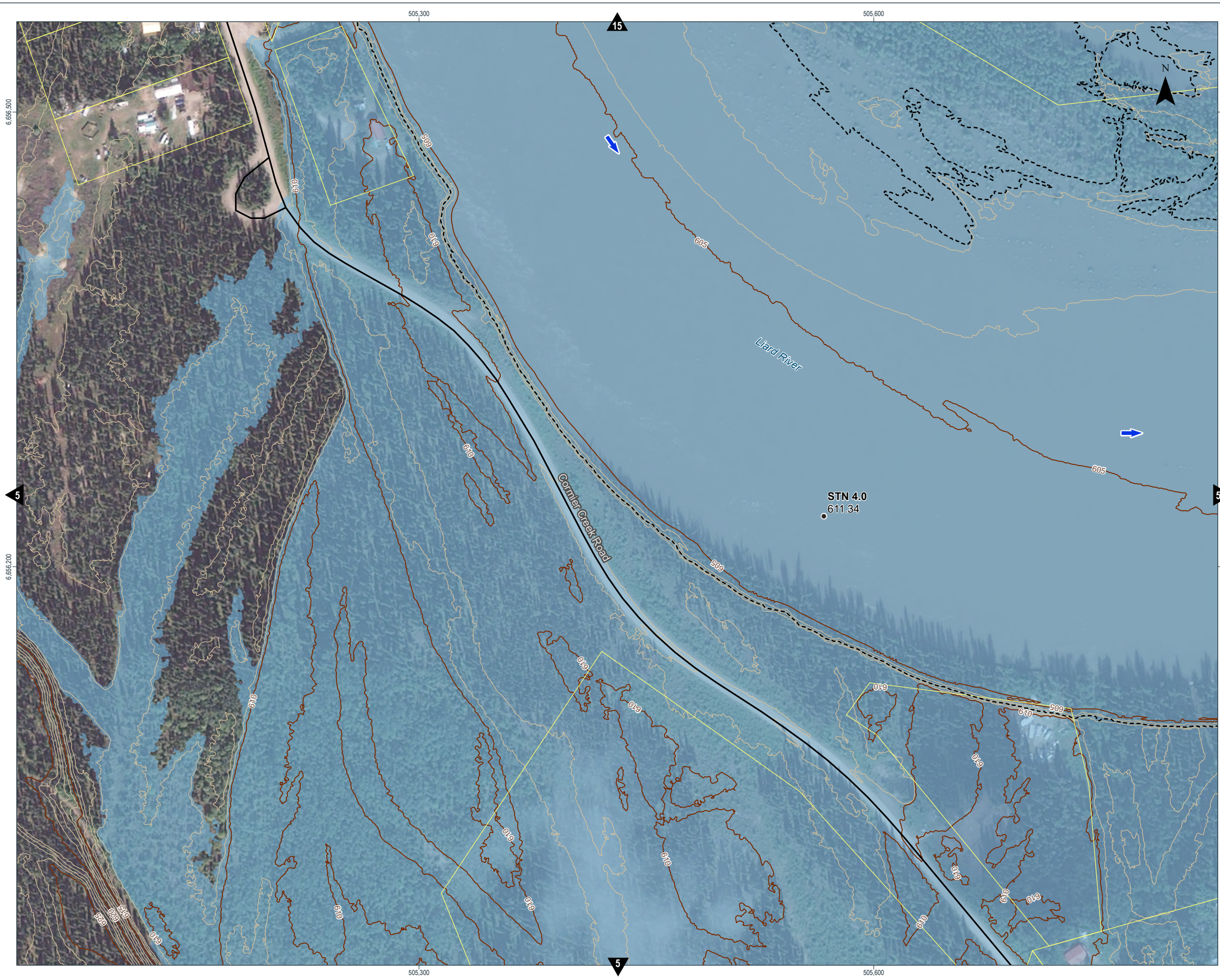
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Project 705450  
 Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a

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**FLOOD HAZARD MODELLING**

- STN 0.0** Stationing
- 611.04 Inundation Levels (m)
- + 611.13 Ground Levels (m)
- Average Annual Peak (50% AEP)
- Flood Inundation 0.5% AEP
- ➔ Flow Direction
- Area of Interest
- ▭ LiDAR Extent

**ROAD NETWORK**

- ◆ Bridge
- Culvert
- Major Road
- Local Road
- Road (unmaintained)

**TOPOGRAPHY**

- 600— Index Contour - 5 m Interval
- Contour - 1 m Interval

**BOUNDARY**

- ▨ First Nation Settlement Lands - Unsurveyed
- ▭ Land Parcel

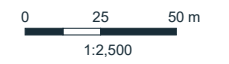


**UPPER LIARD FLOOD MAPPING STUDY**

**Estimated 0.5% Annual Exceedance Probability (AEP) Event Under Climate Change Conditions**

Sources :  
 CANVEC, 1 : 50,000, NR Canada, 2025  
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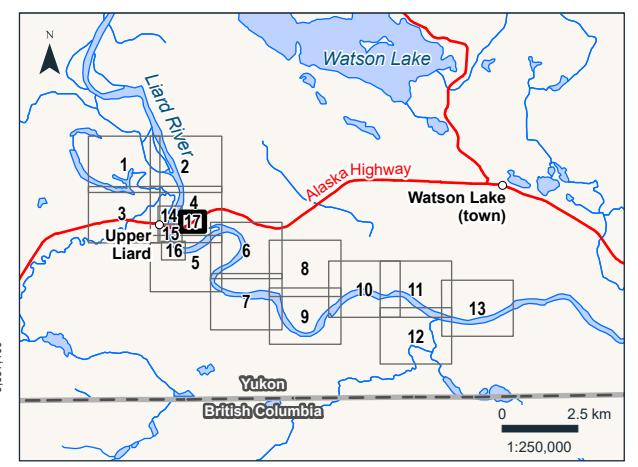
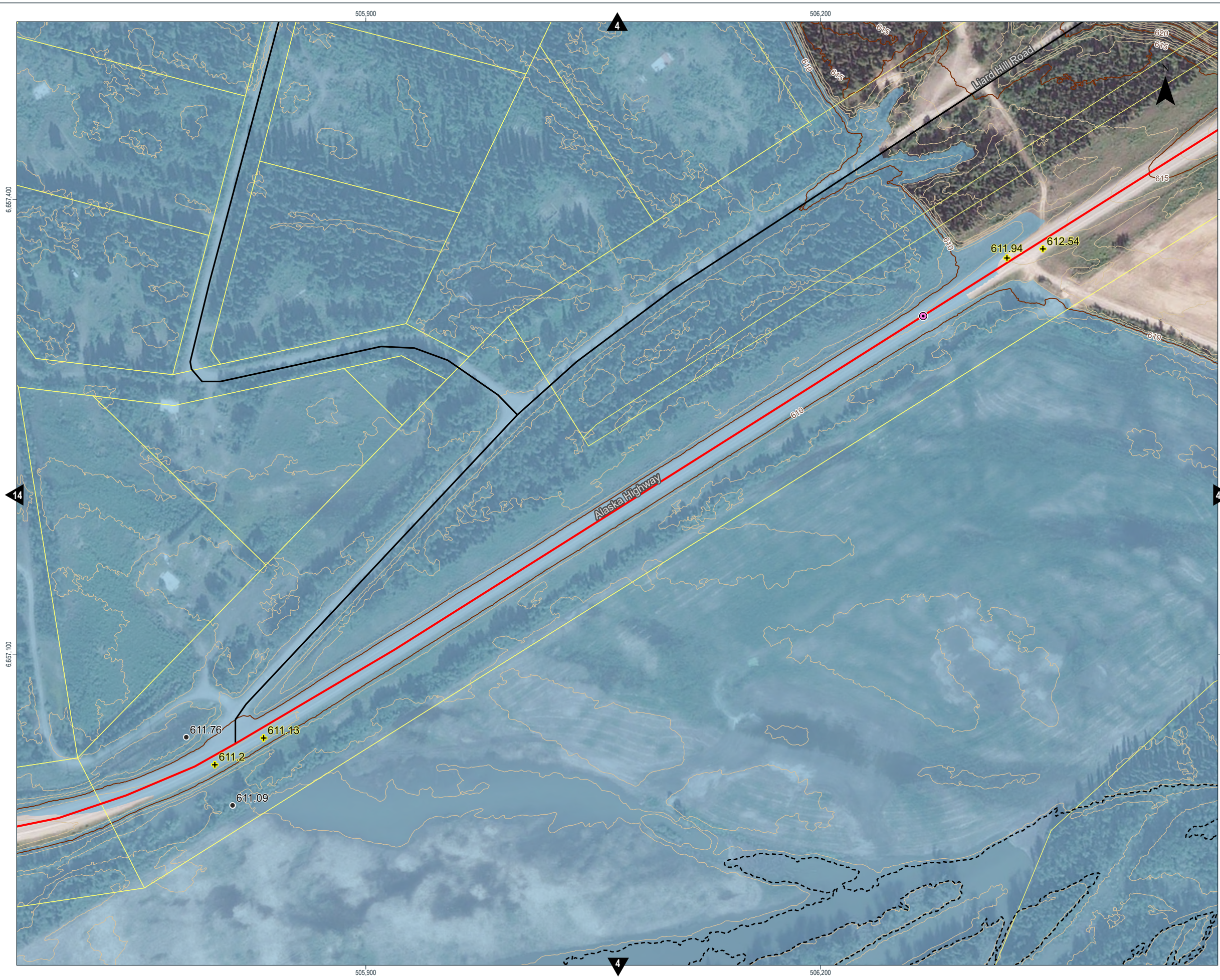
Project 705450  
 Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a



**FINAL**

March 2026

Sheet 16 of 17



- FLOOD HAZARD MODELLING**
- STN 0.0 Stationing
  - 611.04 Inundation Levels (m)
  - 611.13 Ground Levels (m)
  - — — Average Annual Peak (50% AEP)
  - Blue shaded area Flood Inundation 0.5% AEP
  - Blue arrow Flow Direction
  - Red outline Area of Interest
  - Yellow outline LiDAR Extent

- ROAD NETWORK**
- Orange diamond Bridge
  - Purple circle with dot Culvert
  - Red line Major Road
  - Black line Local Road
  - Grey line Road (unmaintained)

- TOPOGRAPHY**
- Black line with dashes Index Contour - 5 m Interval
  - Grey line Contour - 1 m Interval

- BOUNDARY**
- White diagonal lines First Nation Settlement Lands - Unsurveyed
  - Yellow outline Land Parcel



**UPPER LIARD FLOOD MAPPING STUDY**

**Estimated 0.5% Annual Exceedance Probability (AEP) Event Under Climate Change Conditions**

Sources :  
 CANVEC, 1 : 50,000, NR Canada, 2025  
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