

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**

Sources :  
 CANVEC, 1 : 50,000, NR Canada, 2025  
 LiDAR capture by McElhanney Ltd on August 2 and 8, 2024  
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 High resolution satellite images, Government of Yukon, updated to 2023 acquisitions

Flood Hazard Modelling, AtkinsRéalis, December 2025

Project 705450

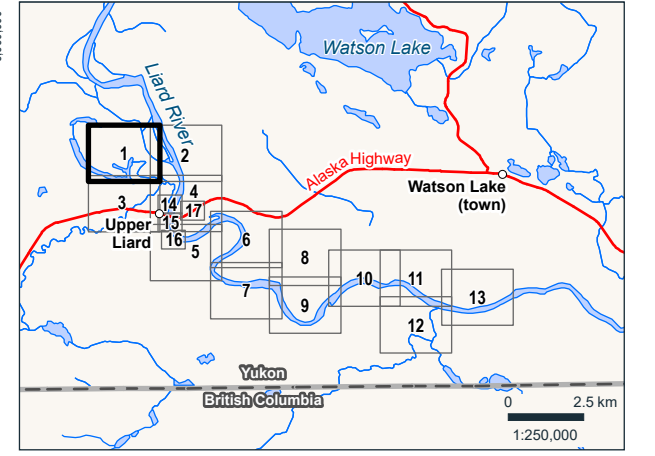
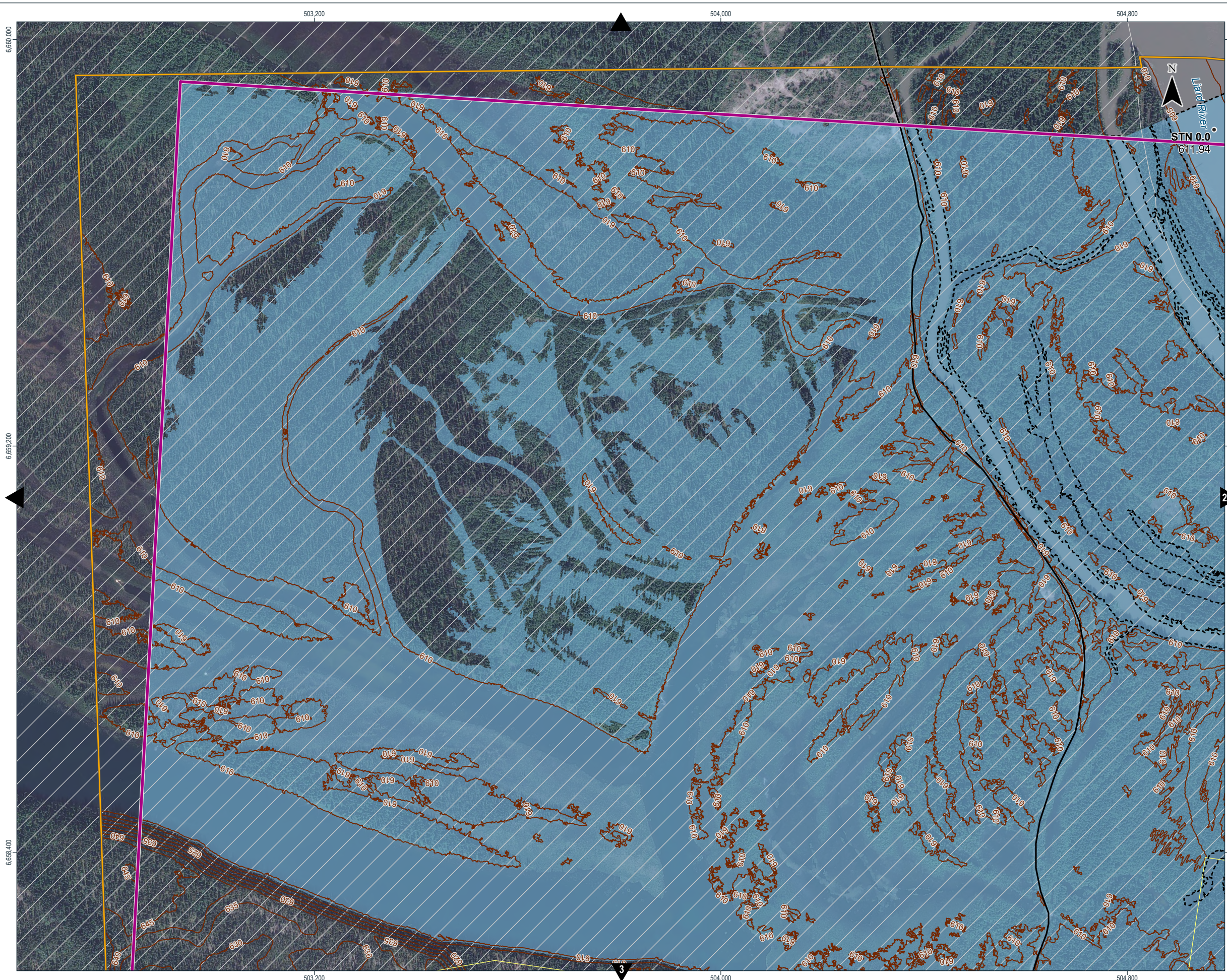
Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a

**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)
  - Blue Flood Inundation 0.5% AEP
  - Blue Arrow Flow Direction
  - Pink Area of Interest
  - Yellow LiDAR Extent
- 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 Box First Nation Settlement Lands - Unsurveyed
  - Yellow Box Land Parcel



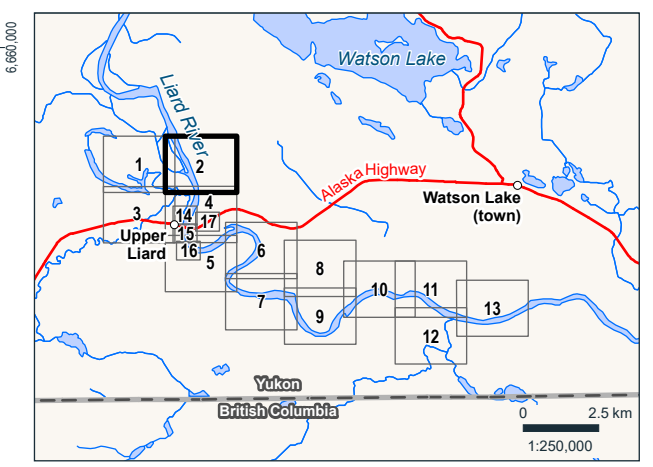
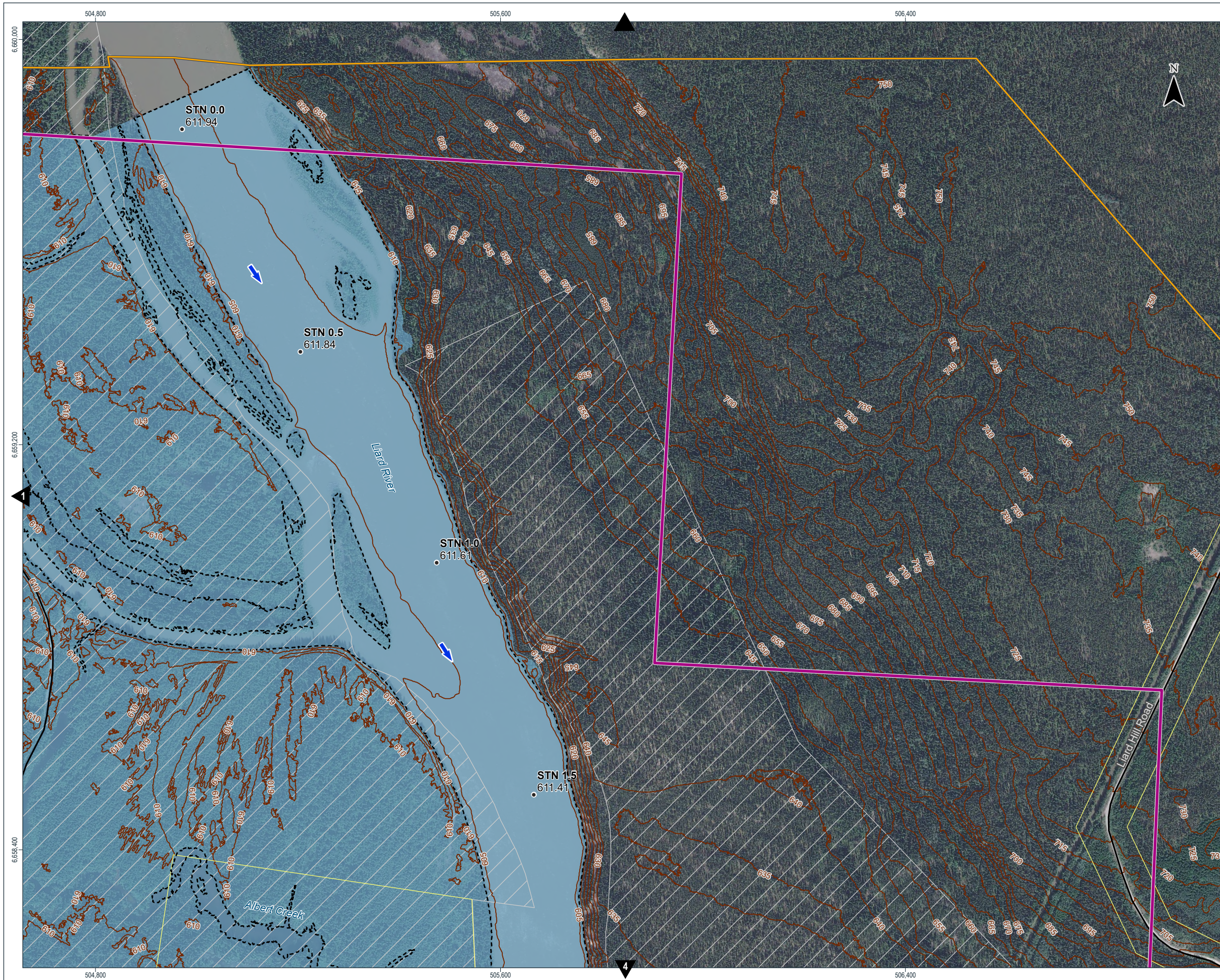
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 Vertical datum : CGVD2013 / Geoid : CGG2013 a

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- 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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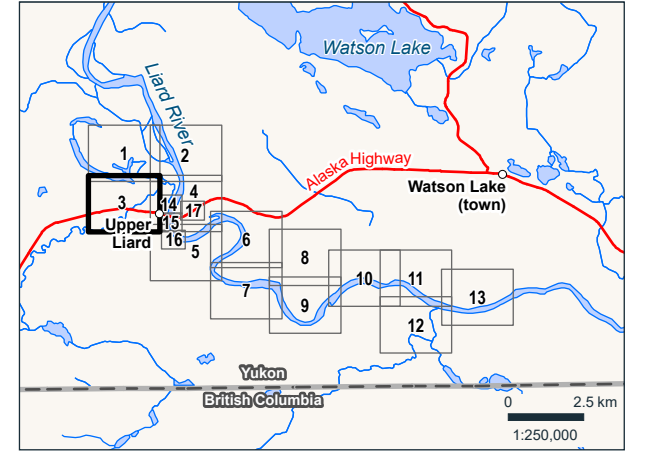
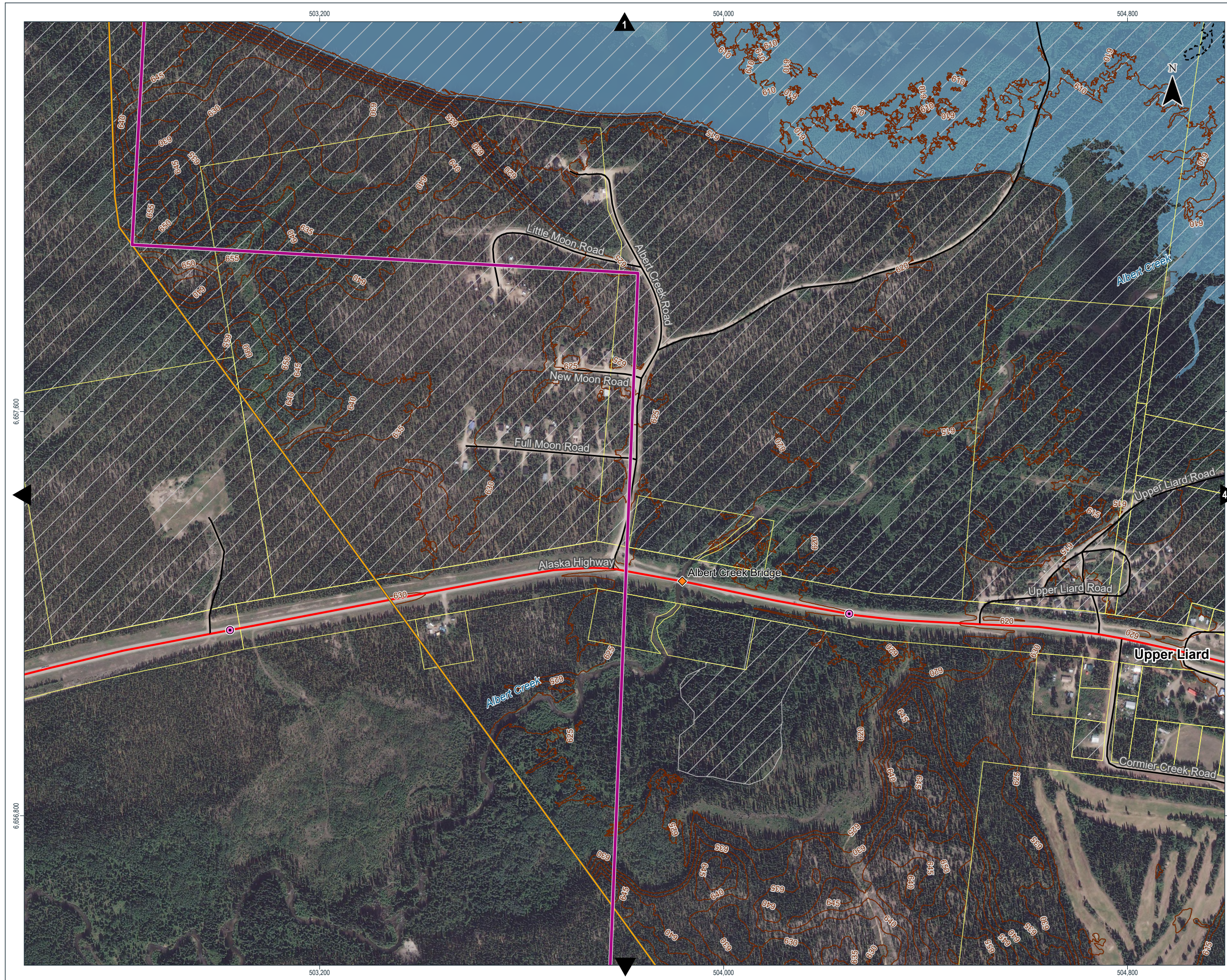
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1:7,500



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  - Blue Area Flood Inundation 0.5% AEP
  - Blue Arrow Flow Direction
  - Pink Area Area of Interest
  - Yellow Area LiDAR Extent
- ROAD NETWORK**
- Orange Diamond Bridge
  - Purple Circle Culvert
  - Red Line Major Road
  - Black Line Local Road
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- TOPOGRAPHY**
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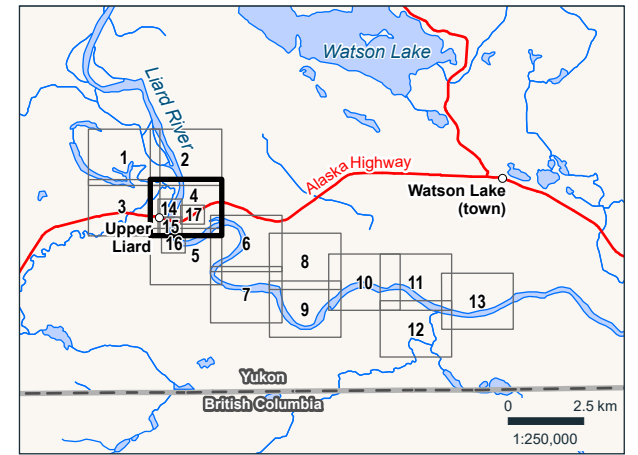
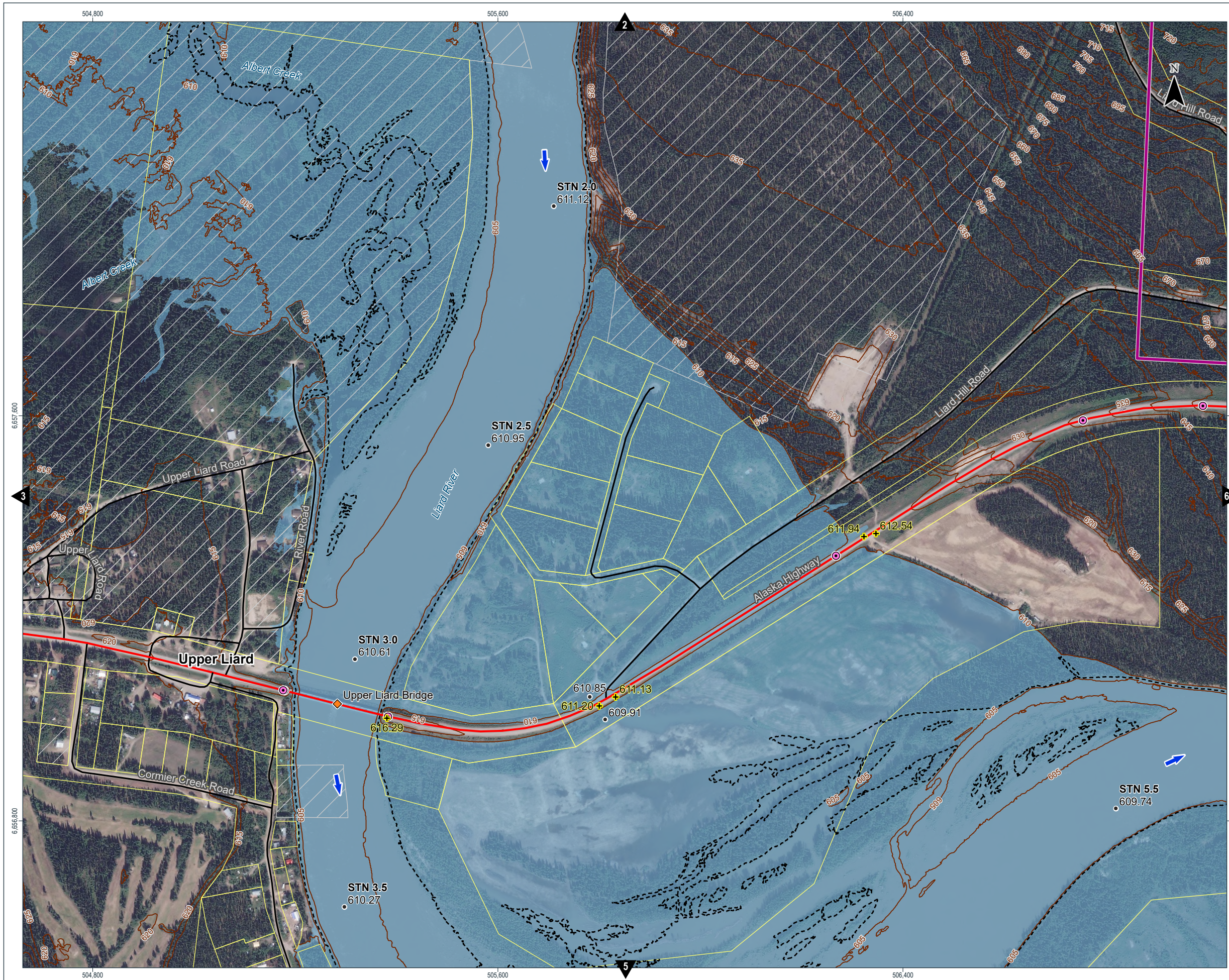
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0 75 150 m  
 1:7,500



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- - -** 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



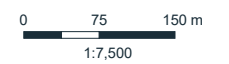
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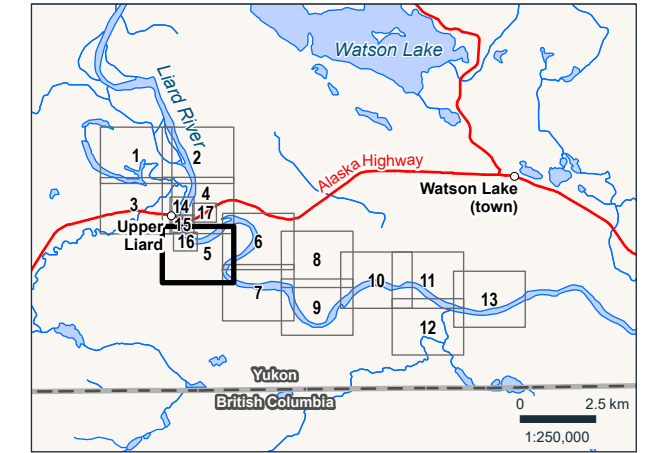
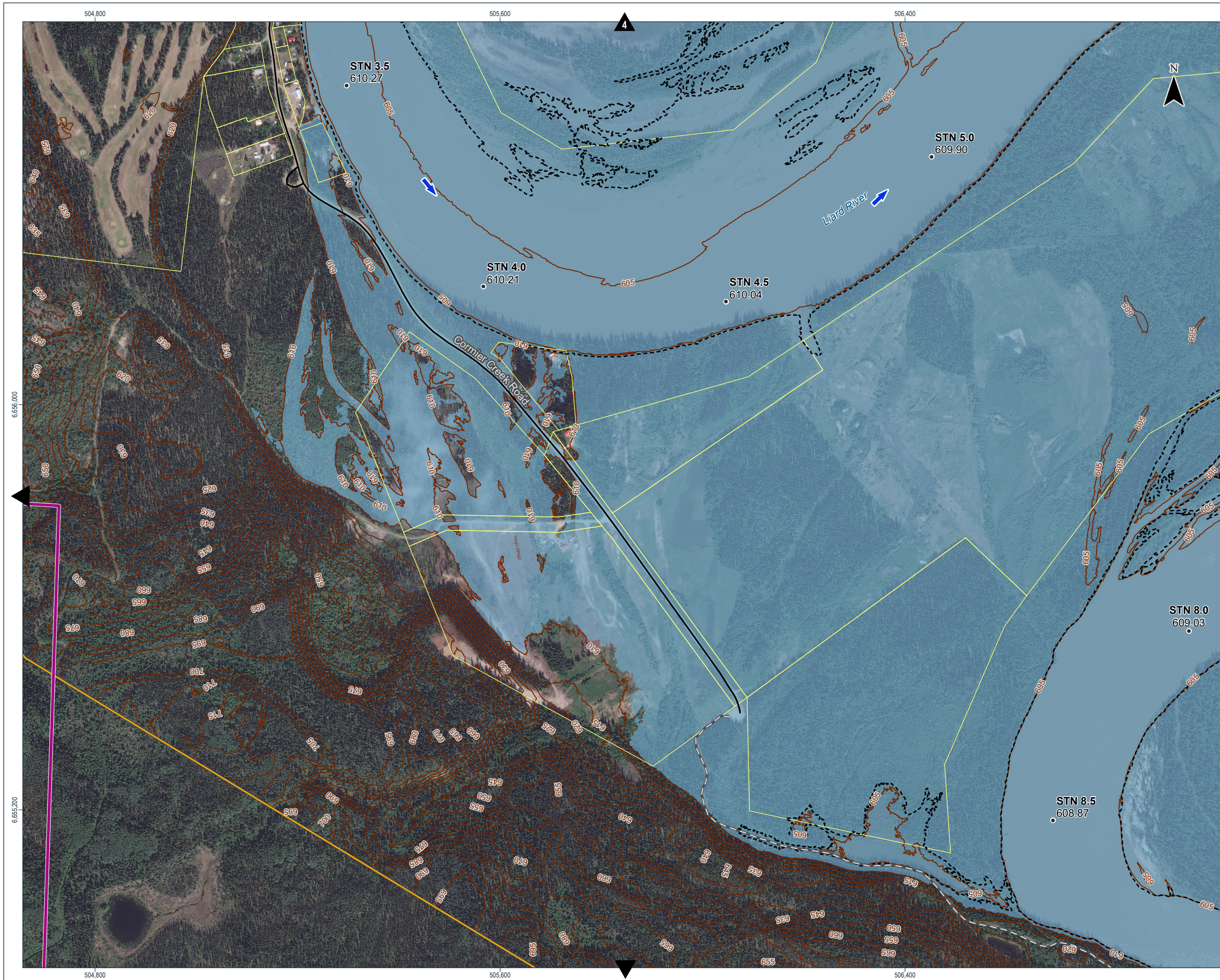
Project 705450  
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 Vertical datum : CGVD2013 / Geoid : CGG2013 a

**FINAL**



March 2026

Sheet 4 of 17



**FLOOD HAZARD MODELLING**

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- 611.04 Inundation Levels (m)
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- 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**

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**UPPER LIARD FLOOD MAPPING STUDY**

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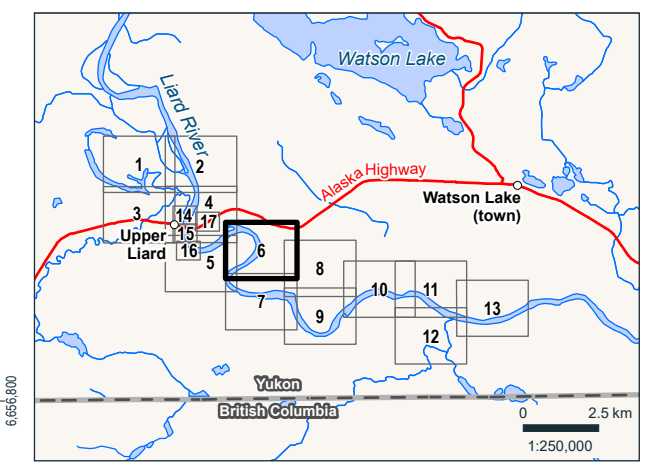
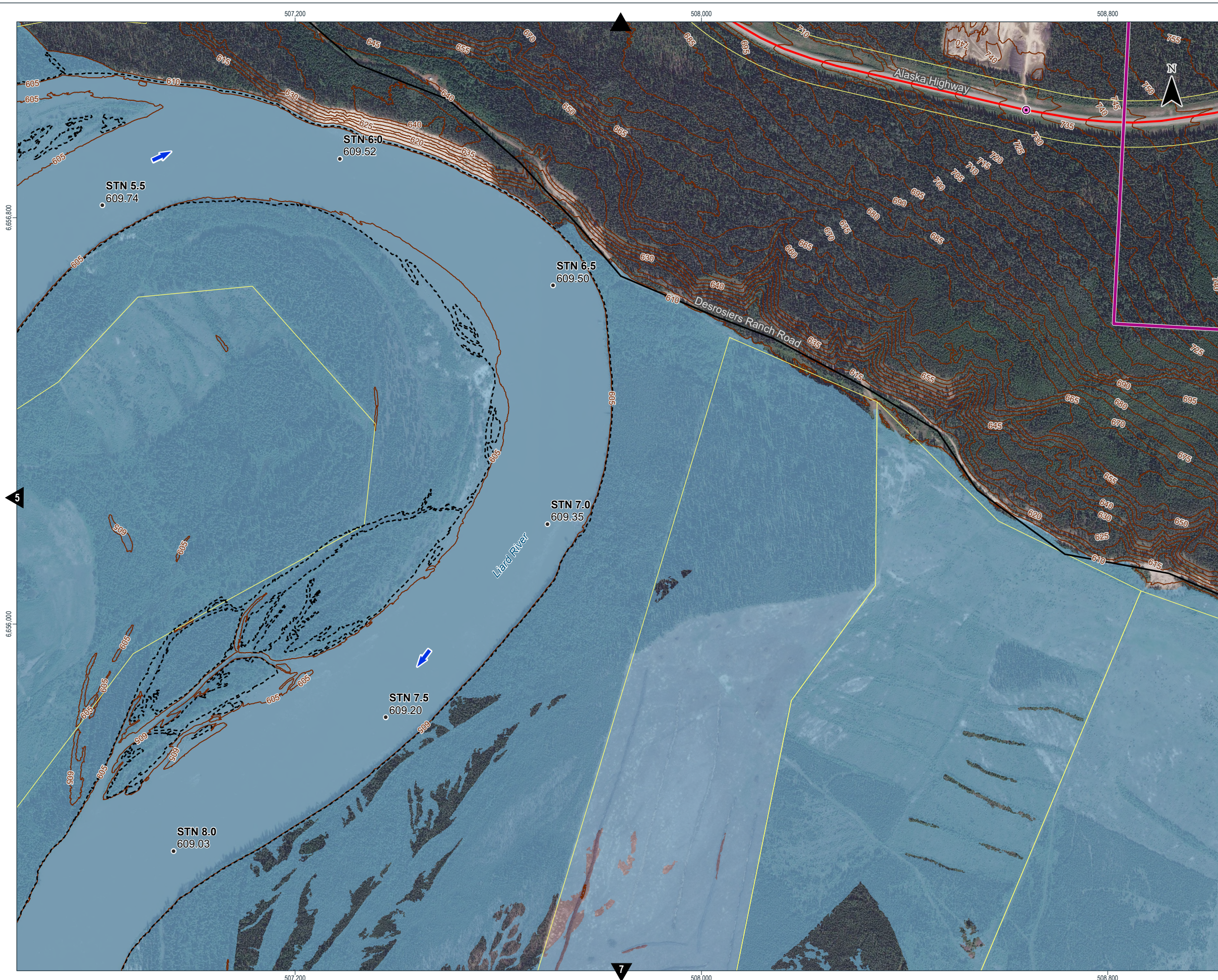
Project 705450  
 Coordinate System : NAD83 (SCRS) UTM Zone 9N  
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**FINAL**



March 2026

Sheet 5 of 17



- FLOOD HAZARD MODELLING**
- STN 0.0 Stationing
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  - 611.13 Ground Levels (m)
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- ROAD NETWORK**
- ◆ Bridge
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  - Major Road
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- TOPOGRAPHY**
- — — 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**

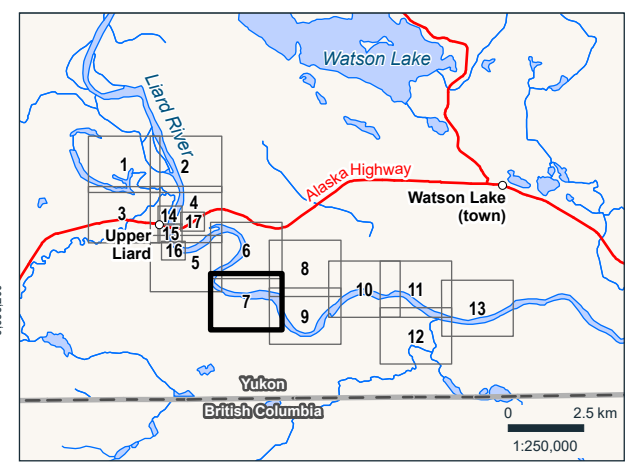
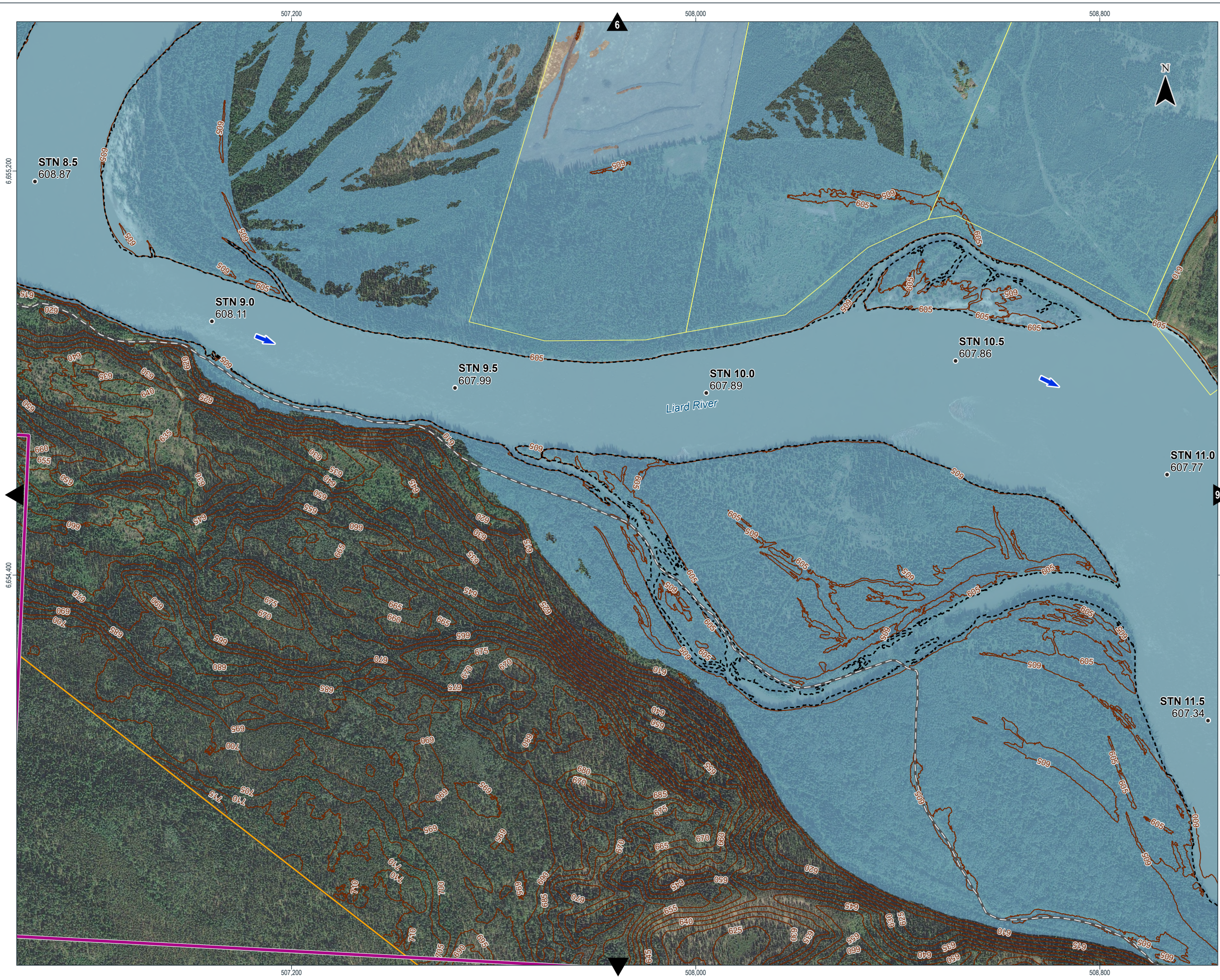
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**FINAL**

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**UPPER LIARD FLOOD MAPPING STUDY**

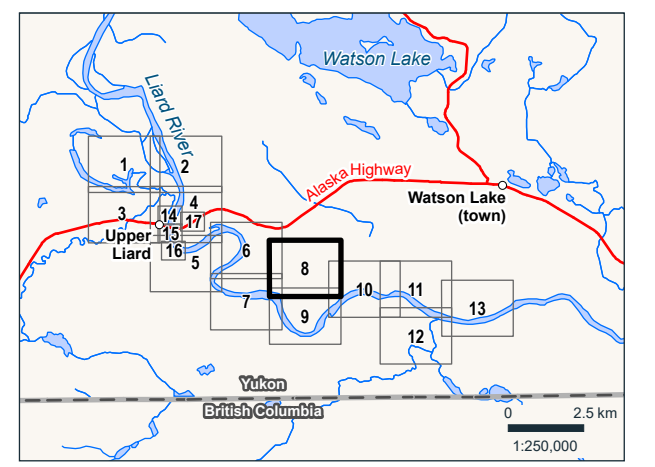
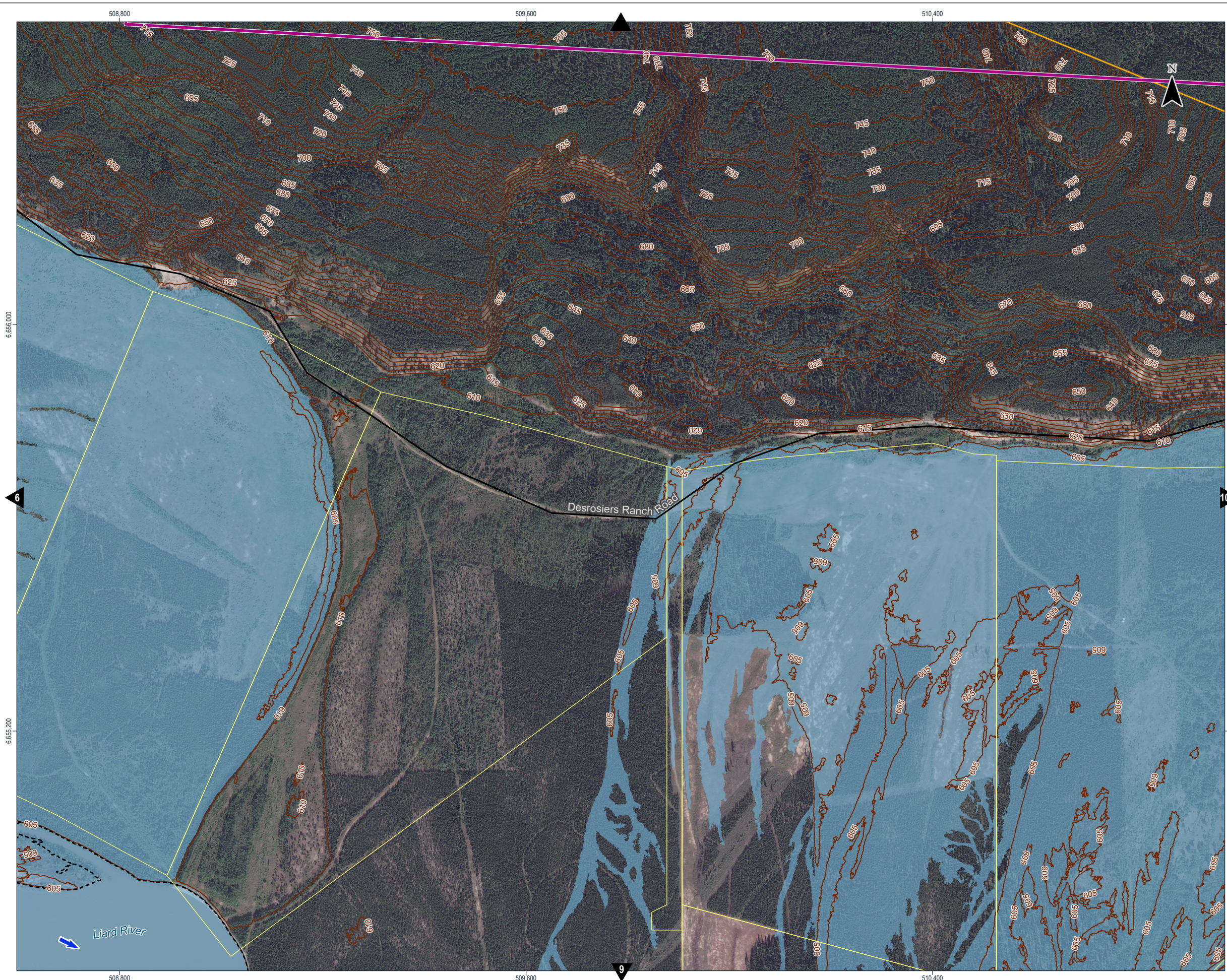
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Project 705450  
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 Vertical datum : CGVD2013 / Geoid : CGG2013 a

**FINAL**

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  - Blue Arrow Flow Direction
  - Purple 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**
- Brown Line Index Contour - 5 m Interval

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

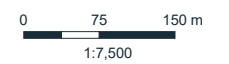


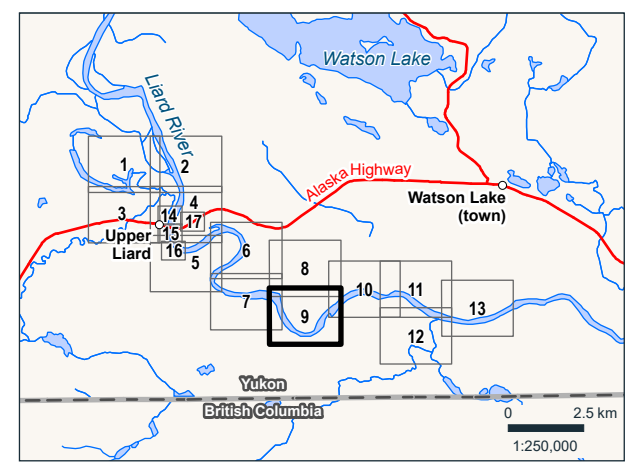
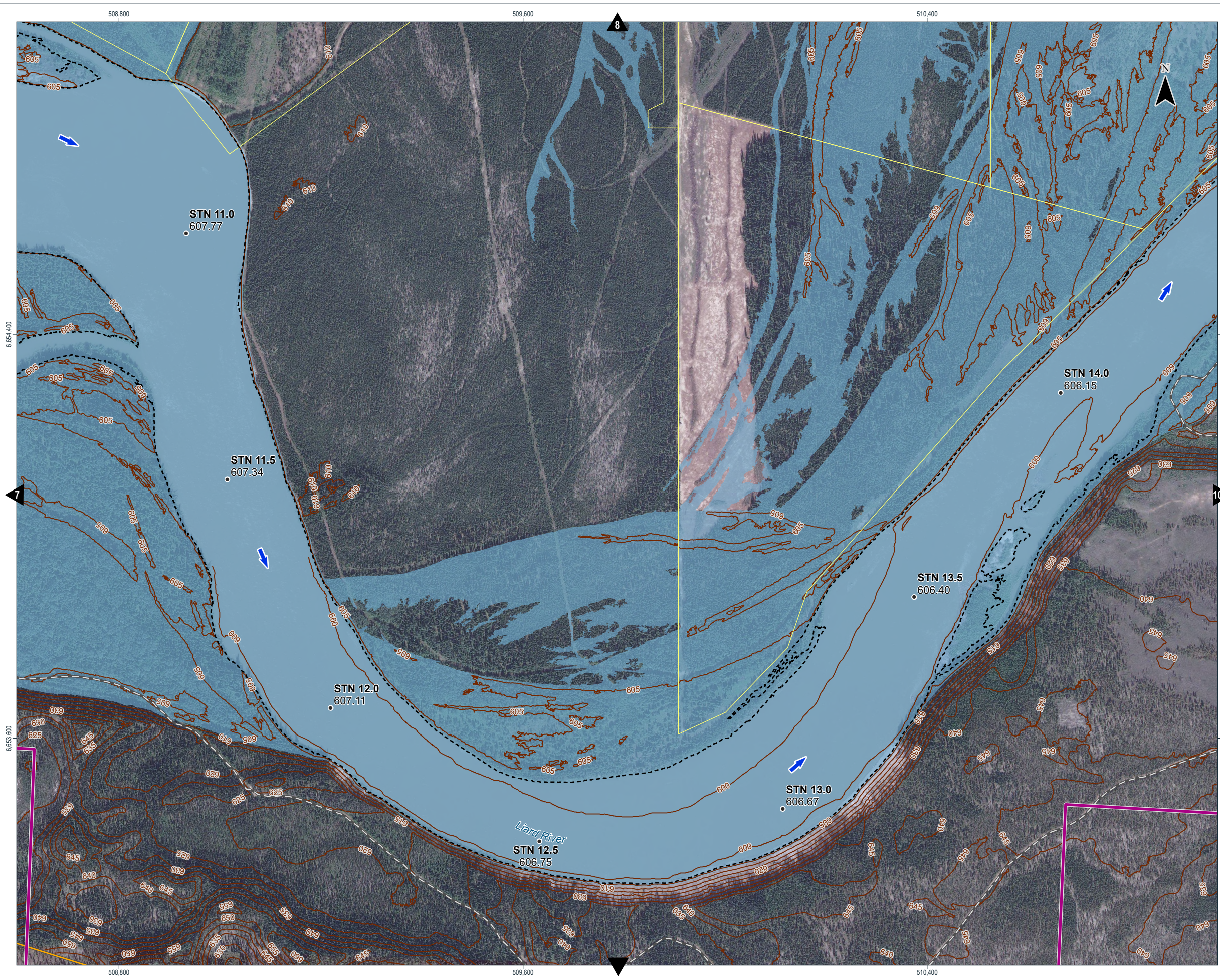
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**Estimated 0.5% Annual Exceedance Probability (AEP) Event**

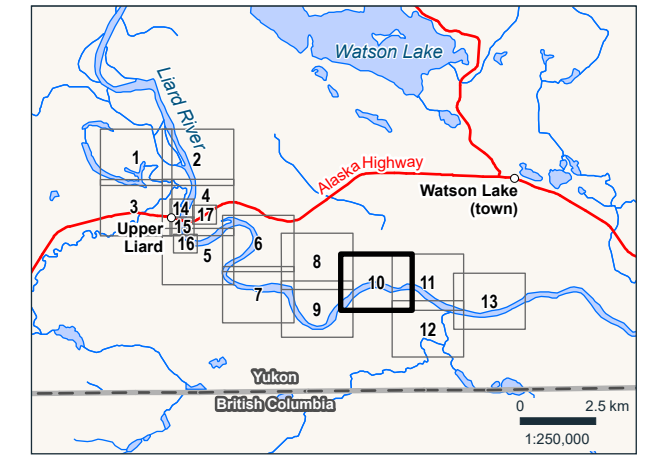
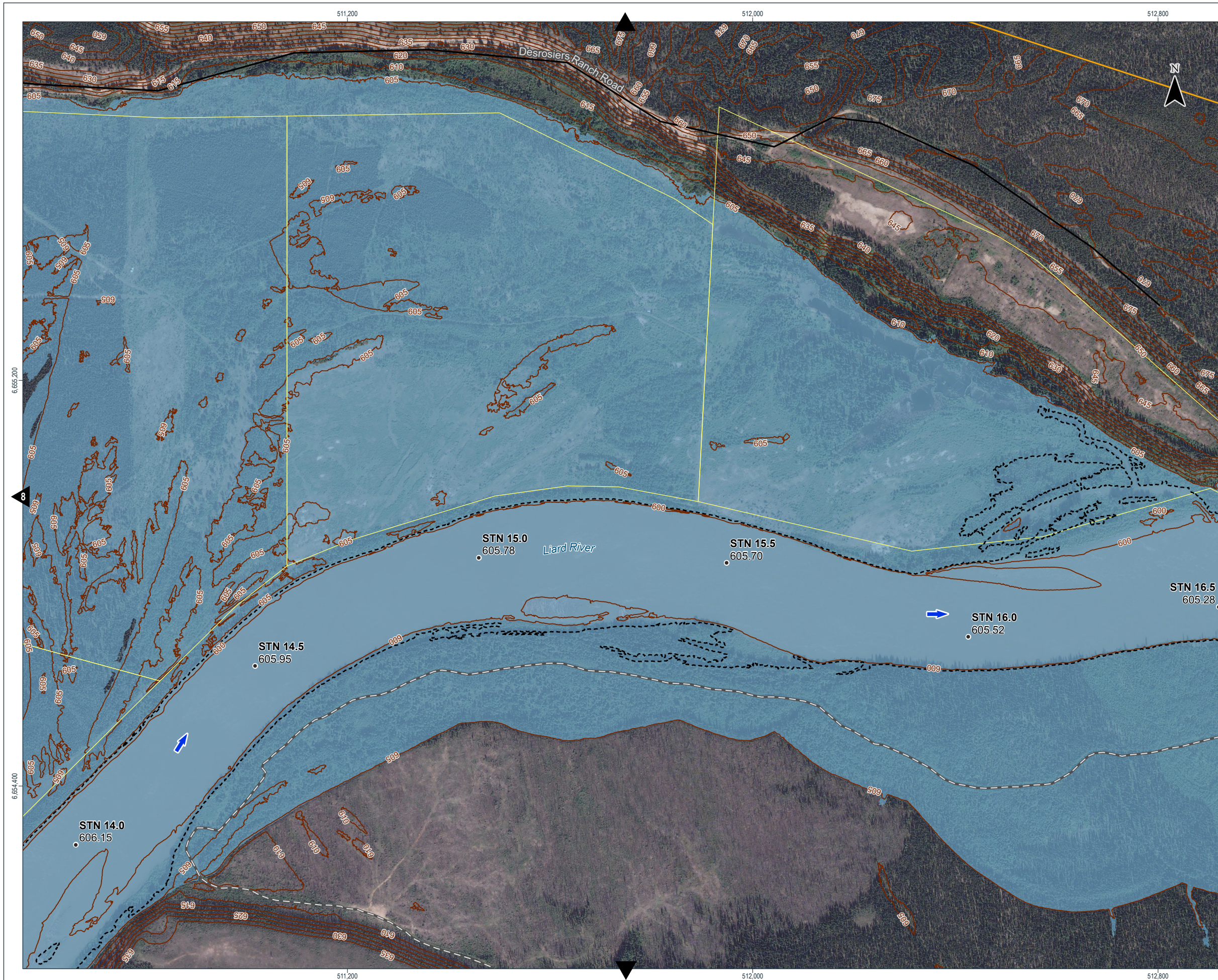
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**FINAL**

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**ROAD NETWORK**

- ◆ Bridge
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**TOPOGRAPHY**

- 600 Index Contour - 5 m Interval

**BOUNDARY**

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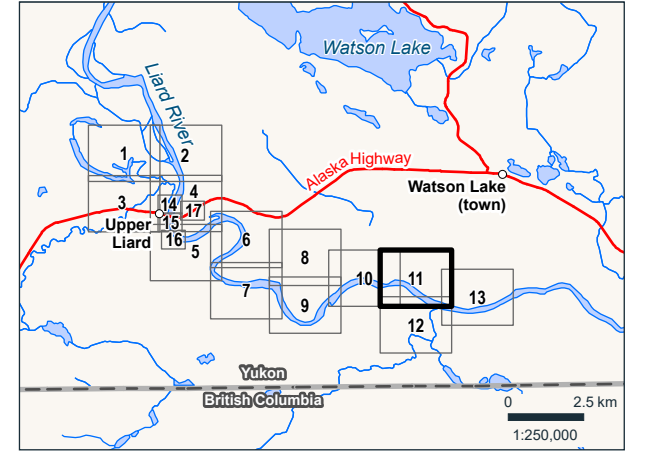
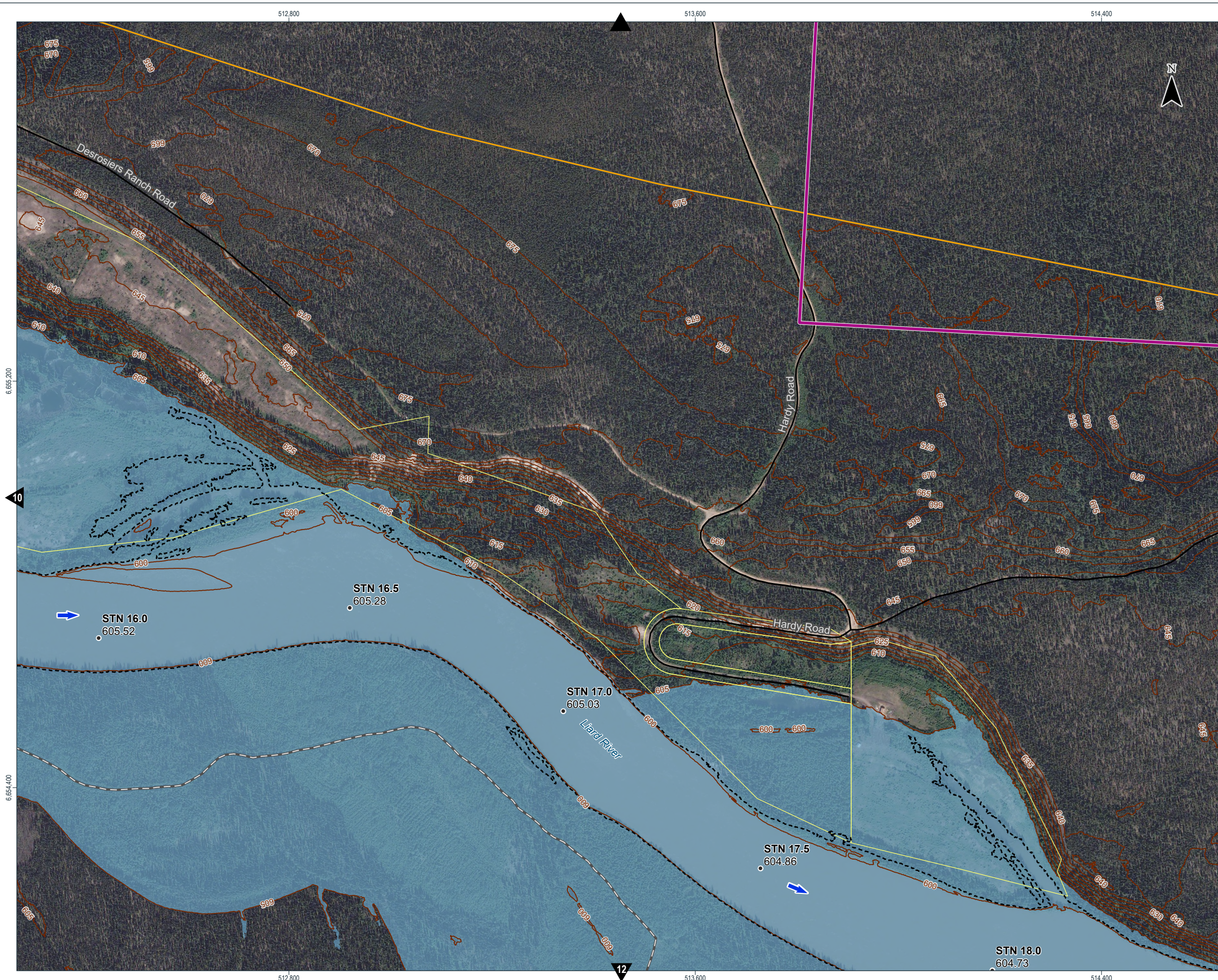
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March 2026

Sheet 10 of 17



**FLOOD HAZARD MODELLING**

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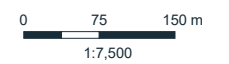
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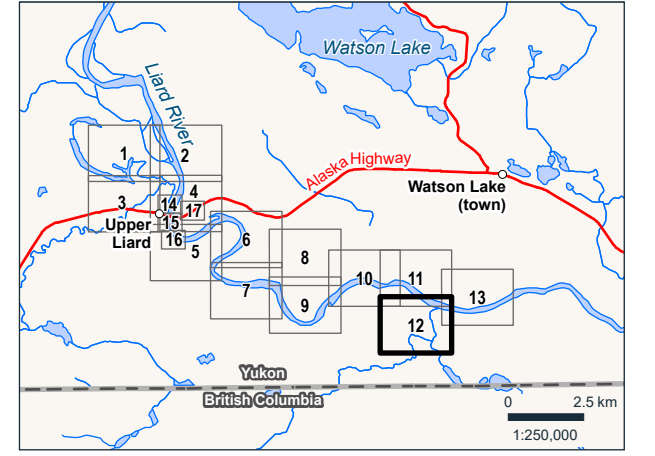
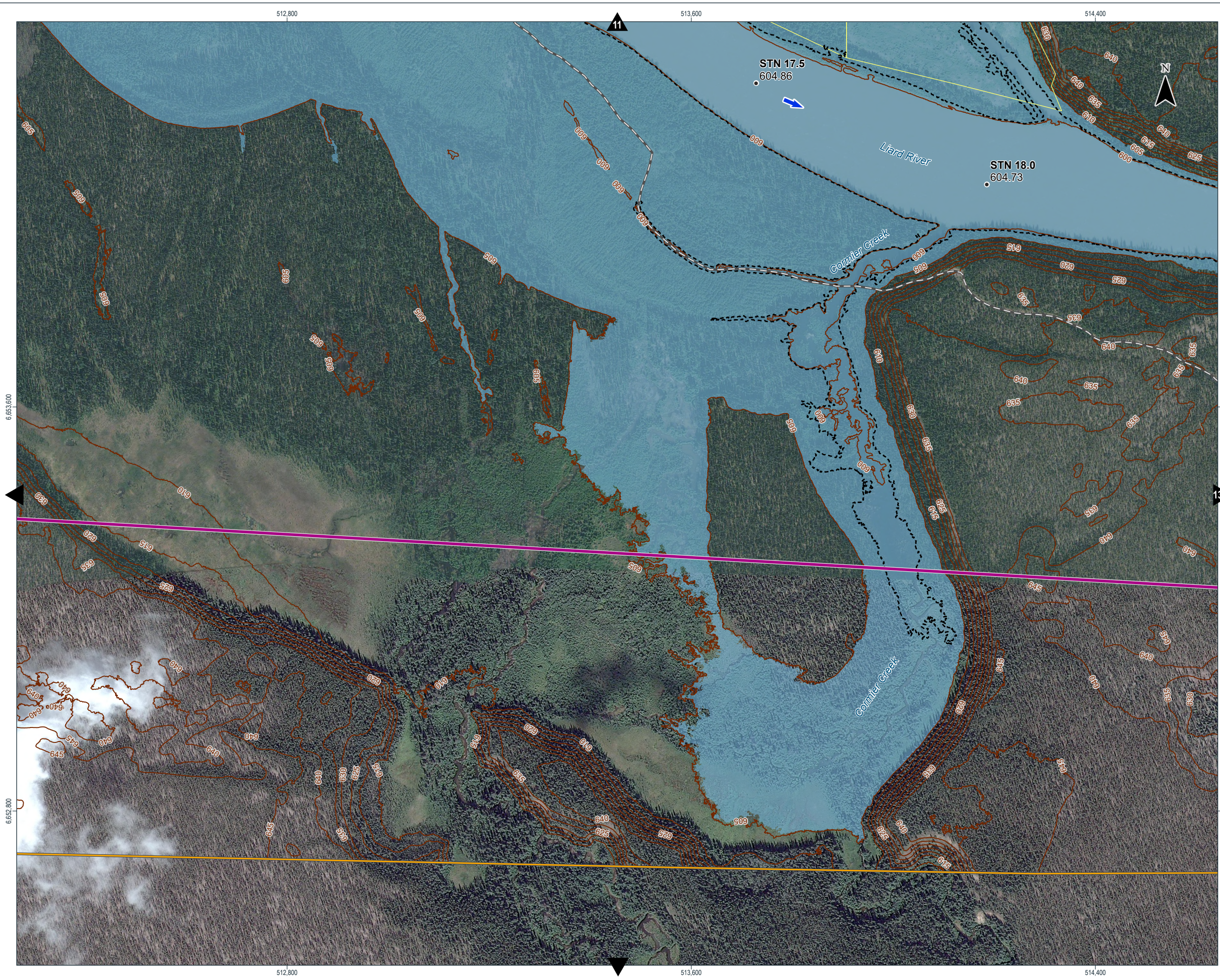
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March 2026

Sheet 11 of 17



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- ▭ First Nation Settlement Lands - Unsurveyed
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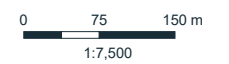


**UPPER LIARD FLOOD MAPPING STUDY**

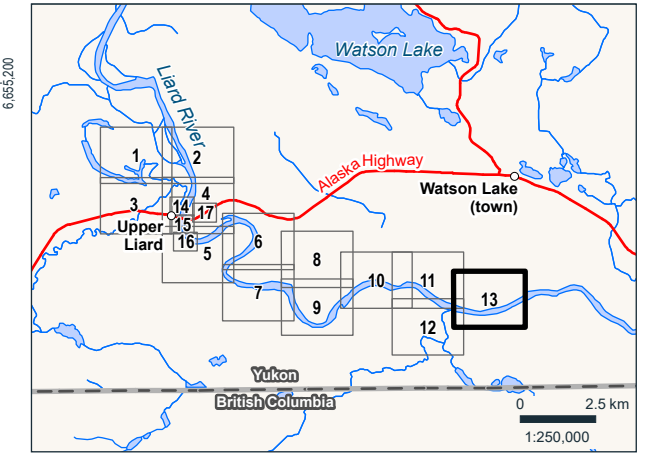
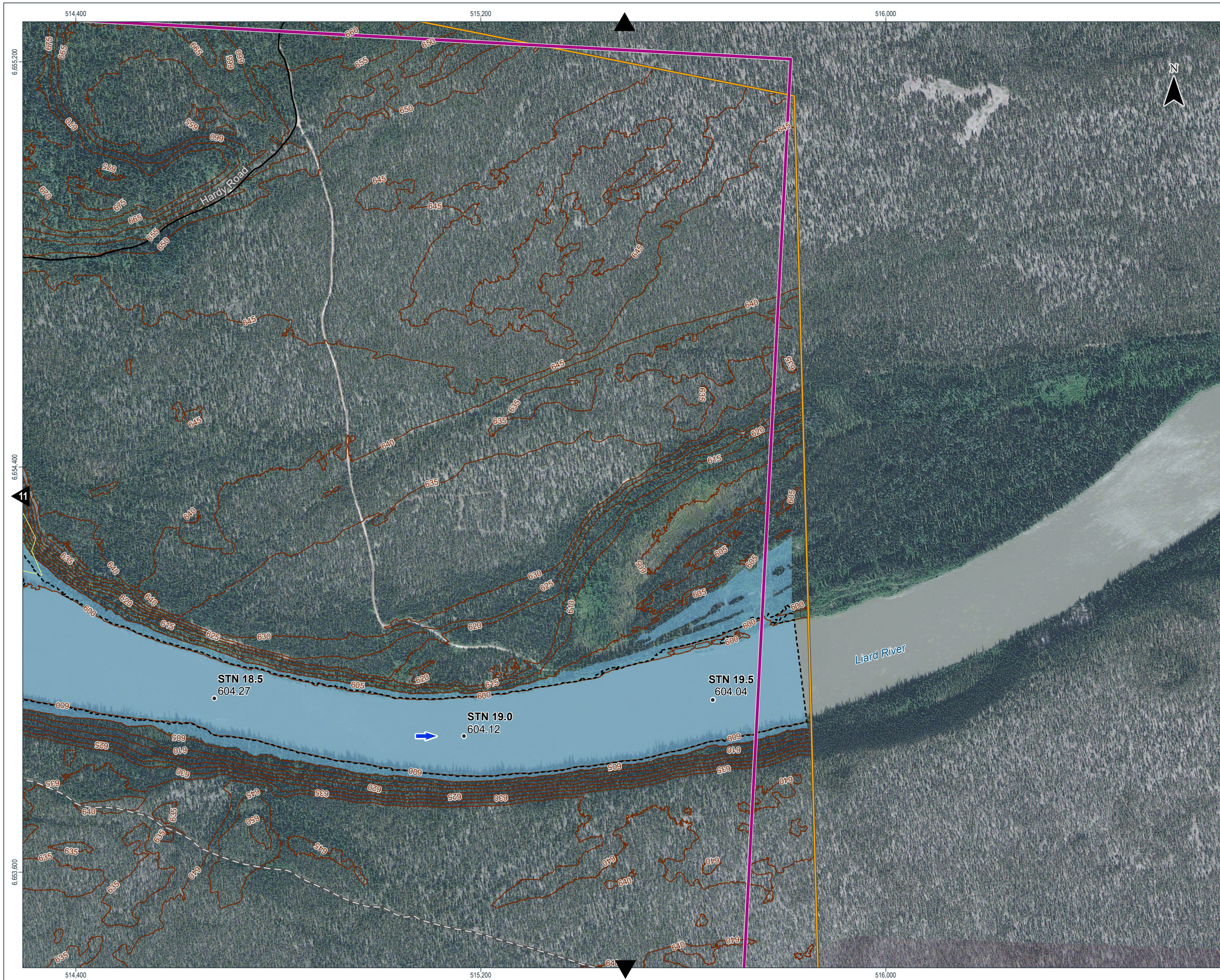
**Estimated 0.5% Annual Exceedance Probability (AEP) Event**

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  
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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  
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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**

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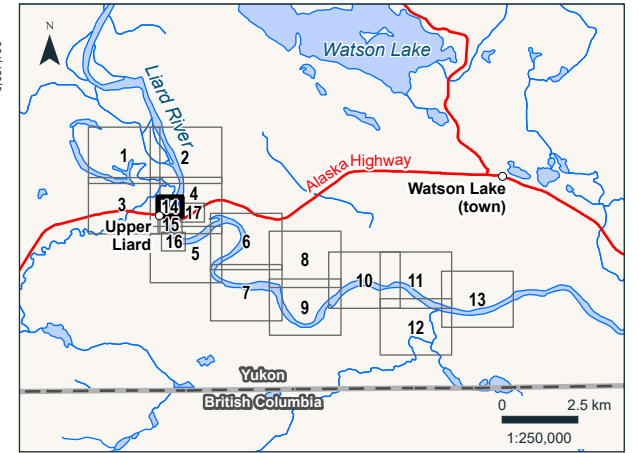
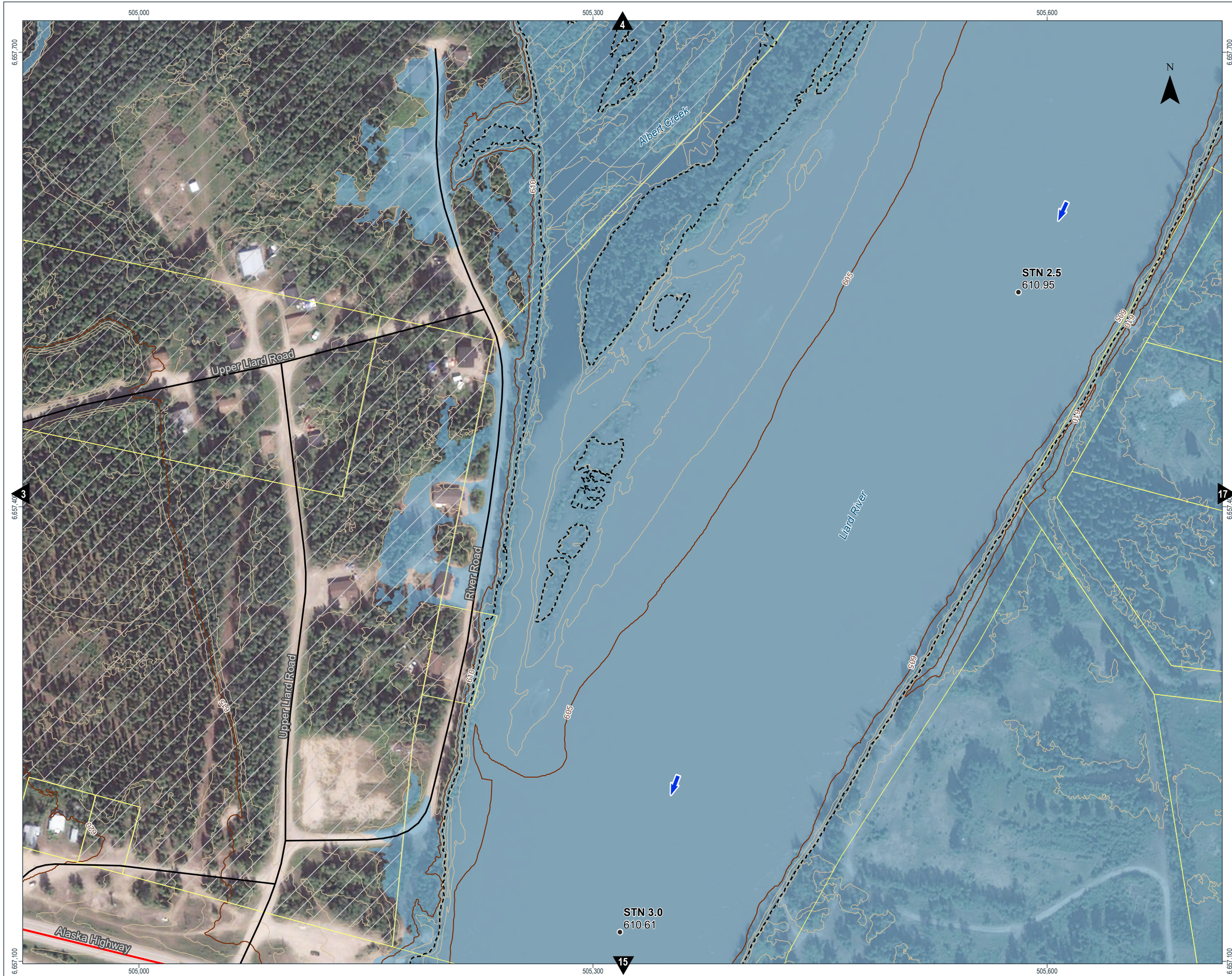
Project 705450  
 Coordinate System : NAD83 (SCRS) UTM Zone 9N  
 Vertical datum : CGVD2013 / Geoid : CGG2013 a

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March 2026

Sheet 13 of 17



**FLOOD HAZARD MODELLING**

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- ➔ Flow Direction
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- 600— Index Contour - 5 m Interval
- Contour - 1 m Interval

**BOUNDARY**

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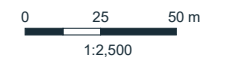


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Sources :  
 CANVEC, 1 : 50,000, NR Canada, 2025  
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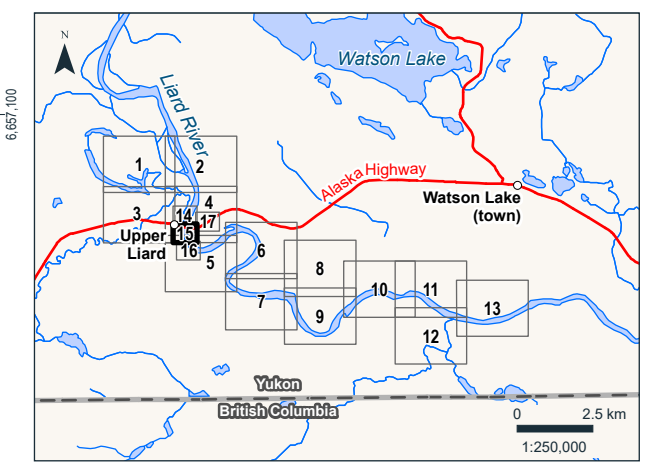
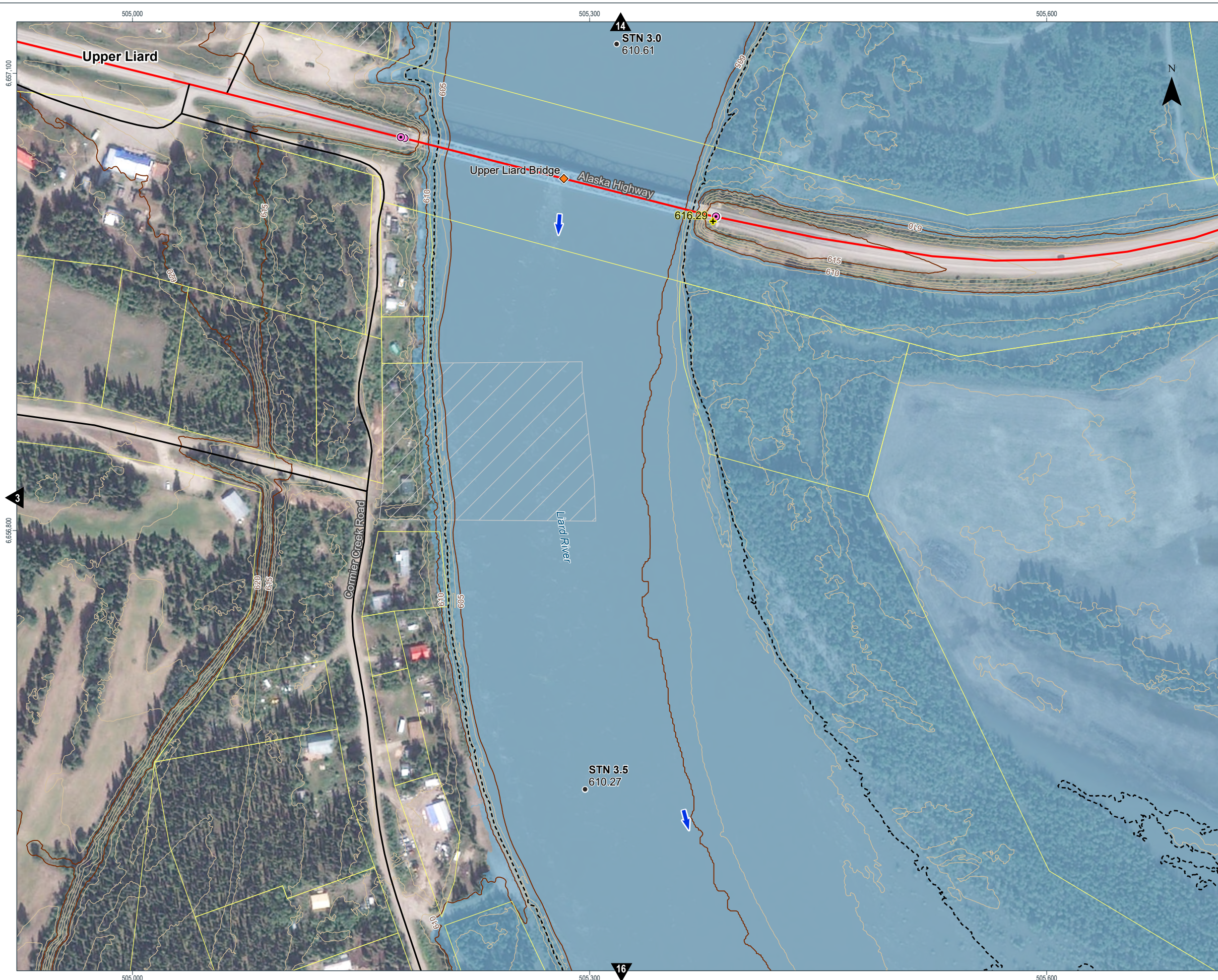
Project 705450  
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 Vertical datum : CGVD2013 / Geoid : CGG2013 a



**FINAL**

March 2026

Sheet 14 of 17



- FLOOD HAZARD MODELLING**
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- BOUNDARY**
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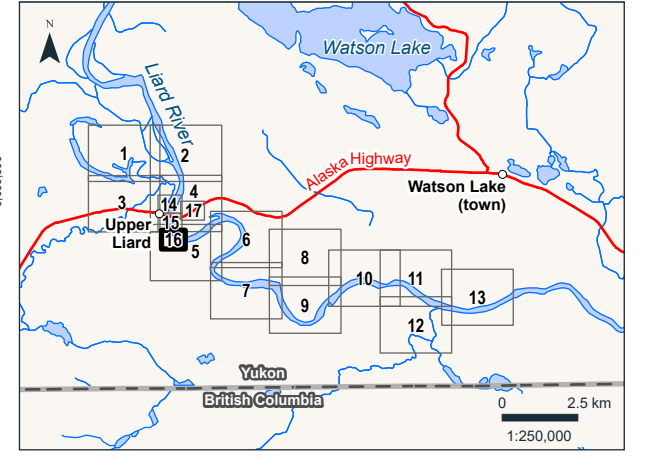
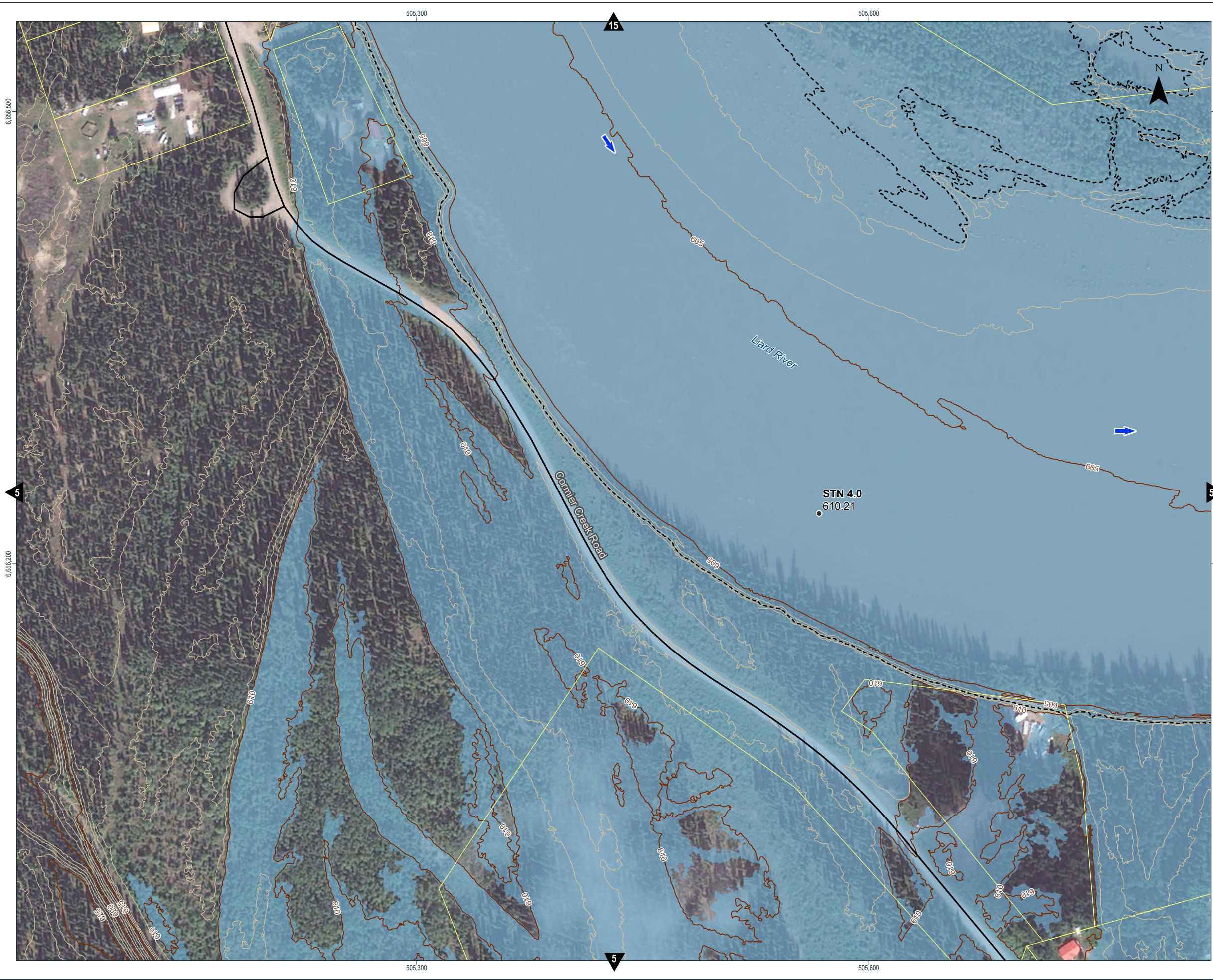
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**FLOOD HAZARD MODELLING**

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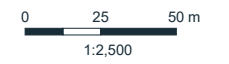


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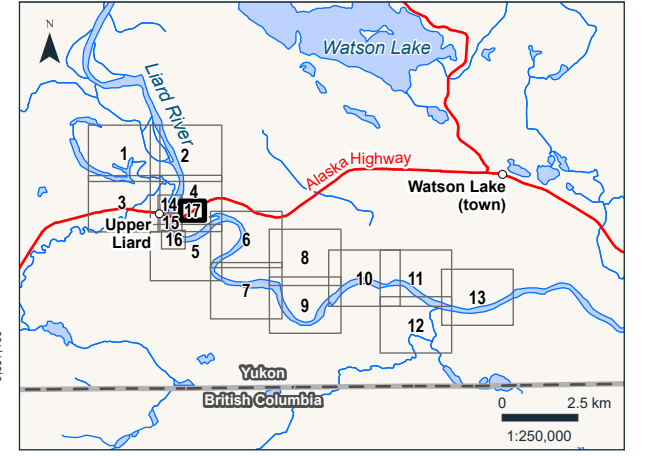
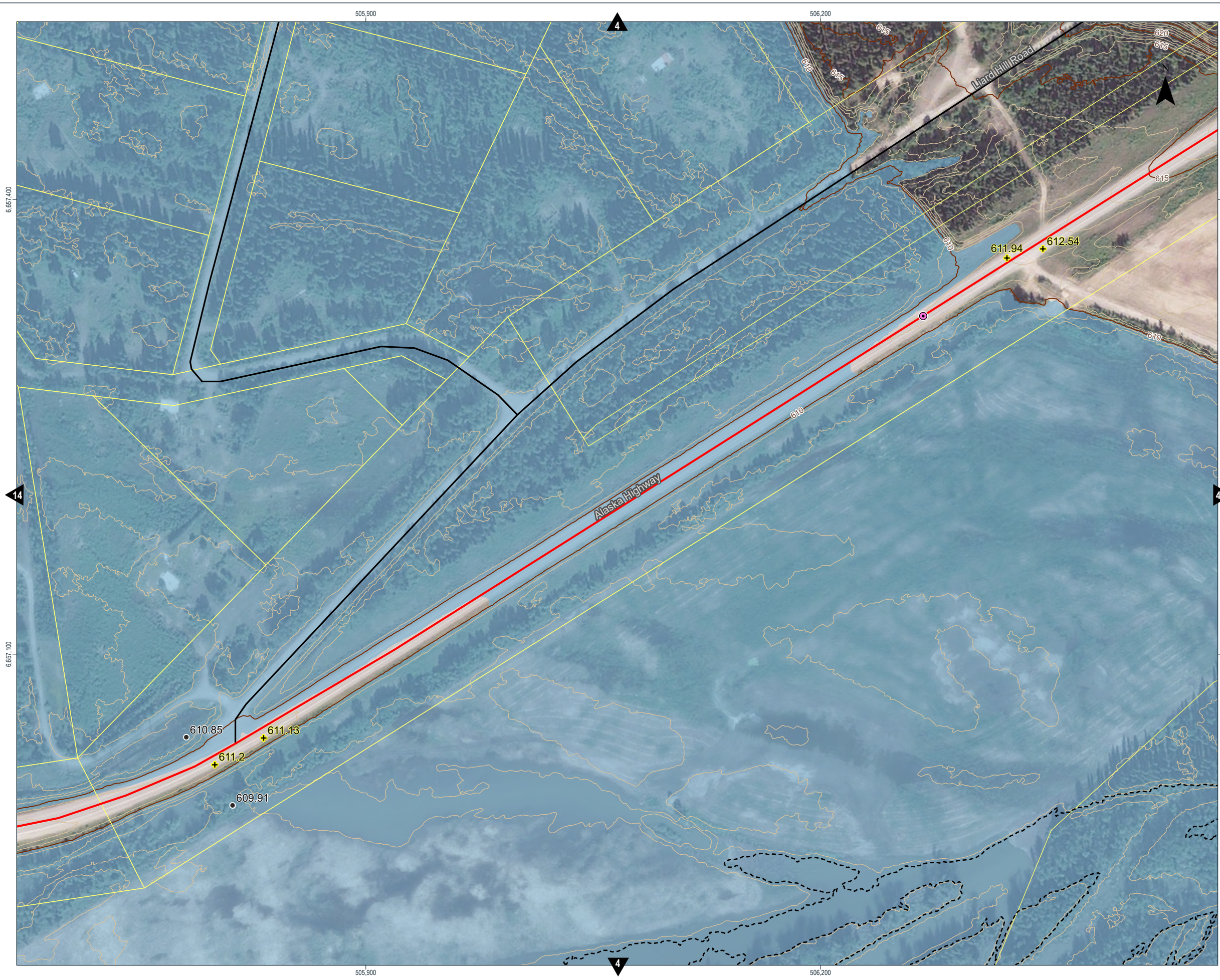
Project 705450  
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**FINAL**

March2026

Sheet 16 of 17



**FLOOD HAZARD MODELLING**

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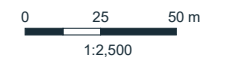


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March2026

Sheet 17 of 17