

Mackenzie Valley Review Board Session on Cultural Impacts Prairie Creek Mine All Season Road Project

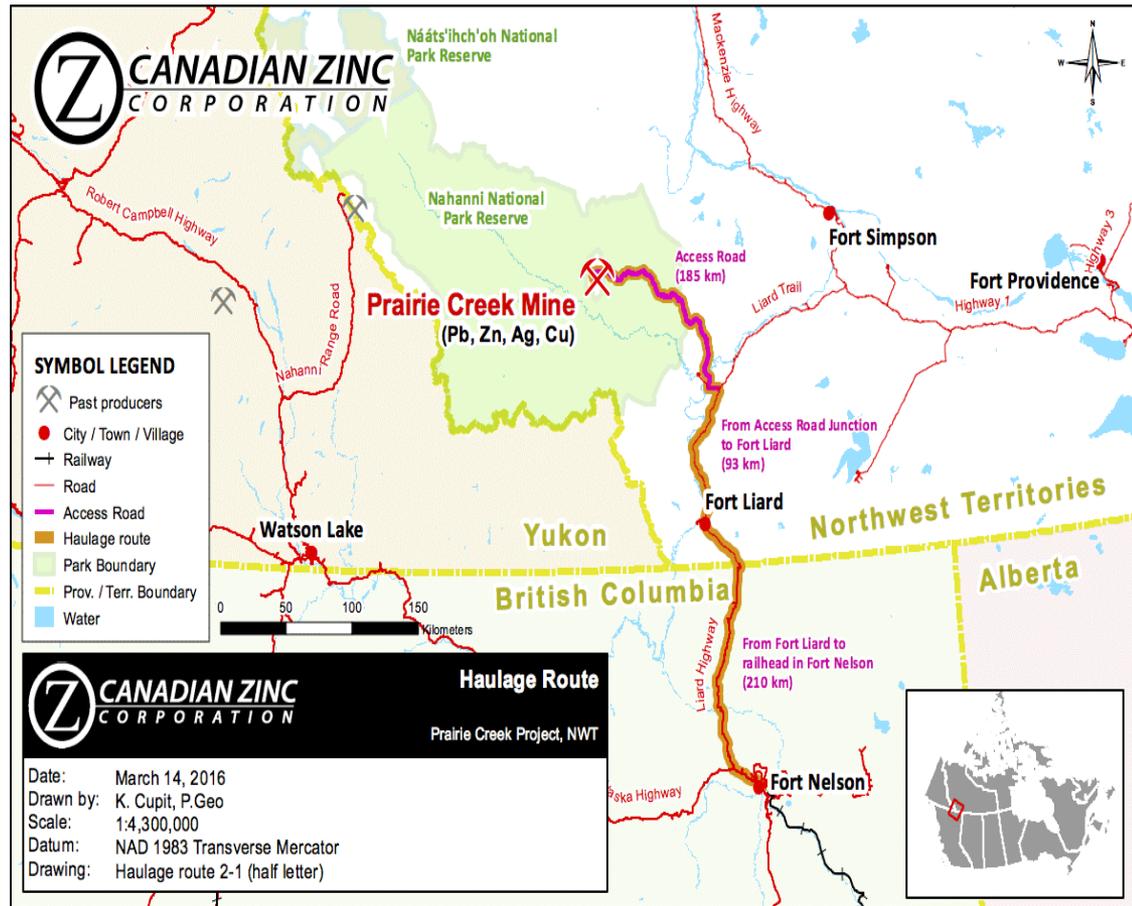
July 4, 2016 Nahanni Butte

July 5, 2016 Fort Simpson



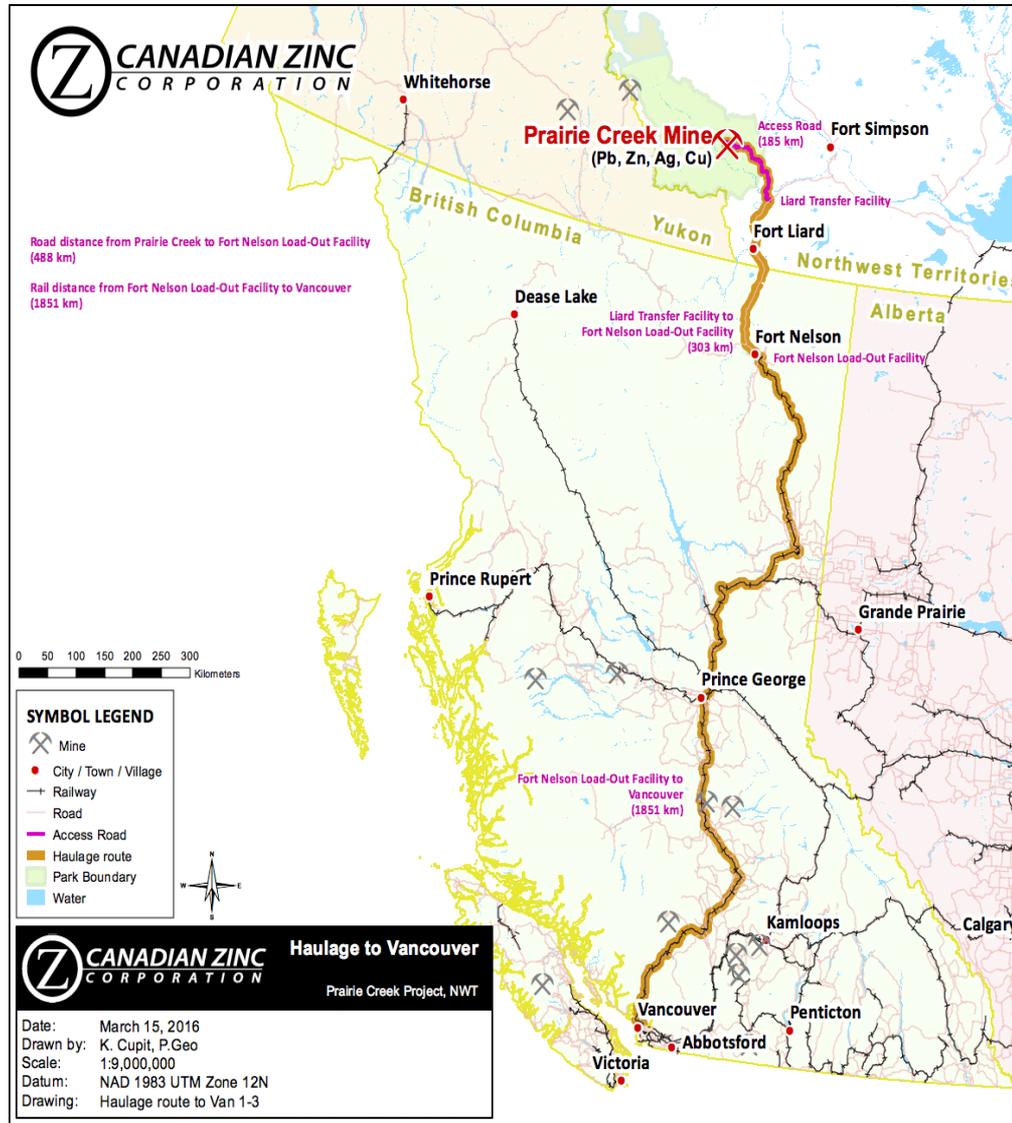
Prairie Creek Mine – Transportation Plan

- Winter road permit issued
 - Requires large working capital, creates large concentrate inventory build up, high risk
- All season road improves safety, project economics and logistics, lowers risk.
- All season road permit application submitted to MVLWB April 2014, Environmental Assessment ongoing .

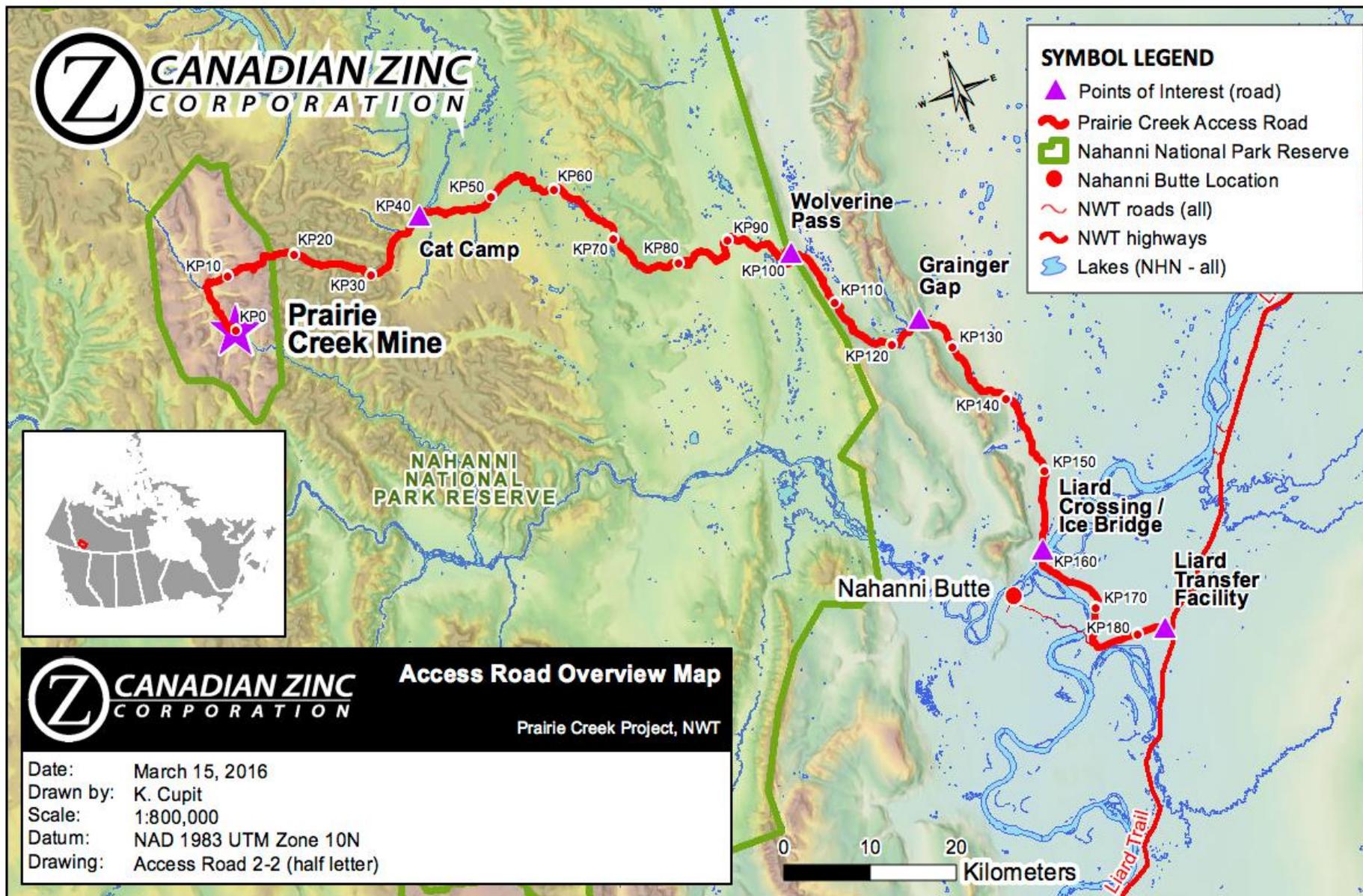


- Concentrate trucked by road from mine to railhead at Fort Nelson ~ 500km
- Rail to the port of Vancouver for shipment to smelters

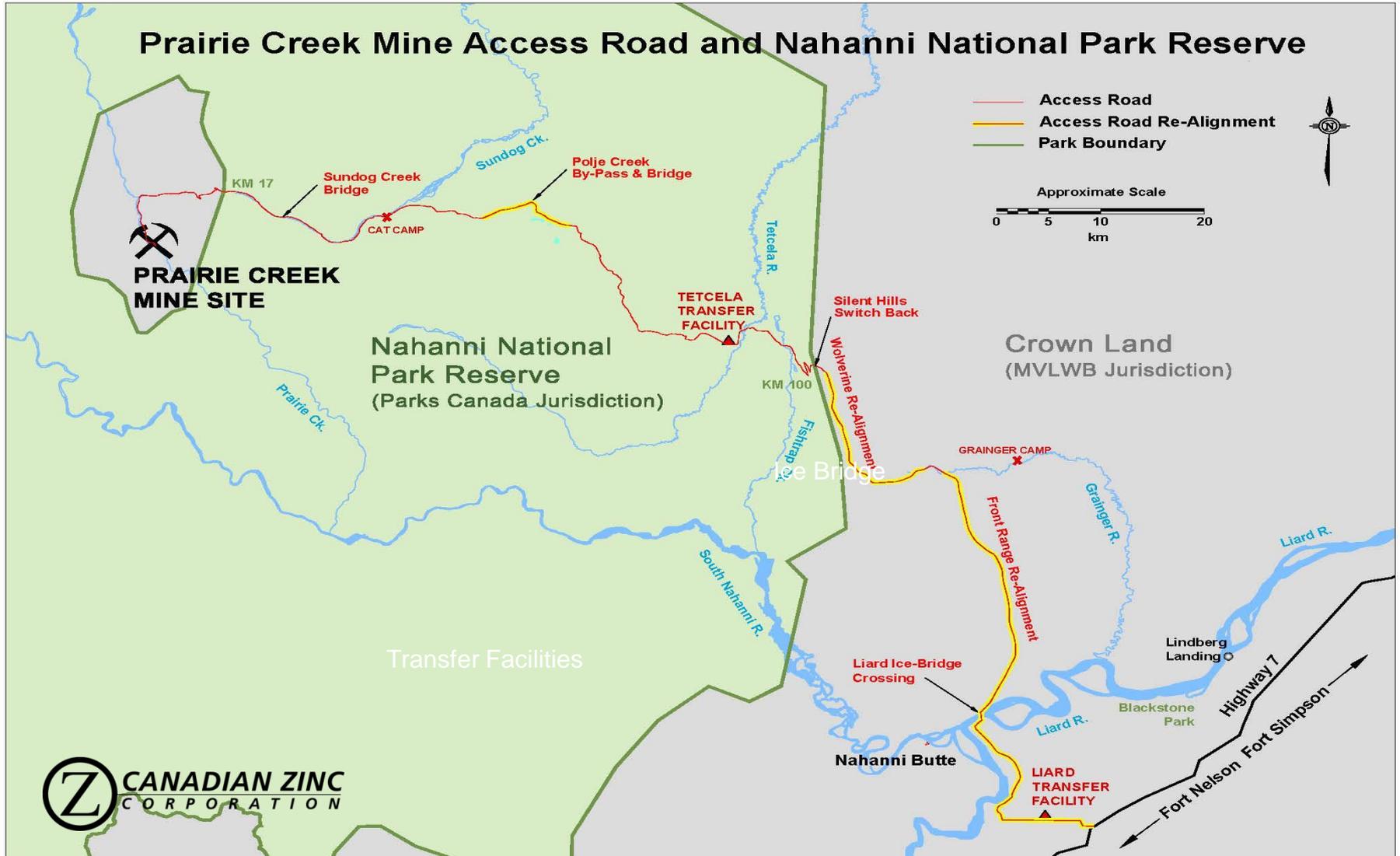
Transportation: route to Port



Transportation: All Season Road Mine site to Highway 7



Access Road Alignment



Mine site area



Sundog Creek



Mosquito Lake – Ram Plateau



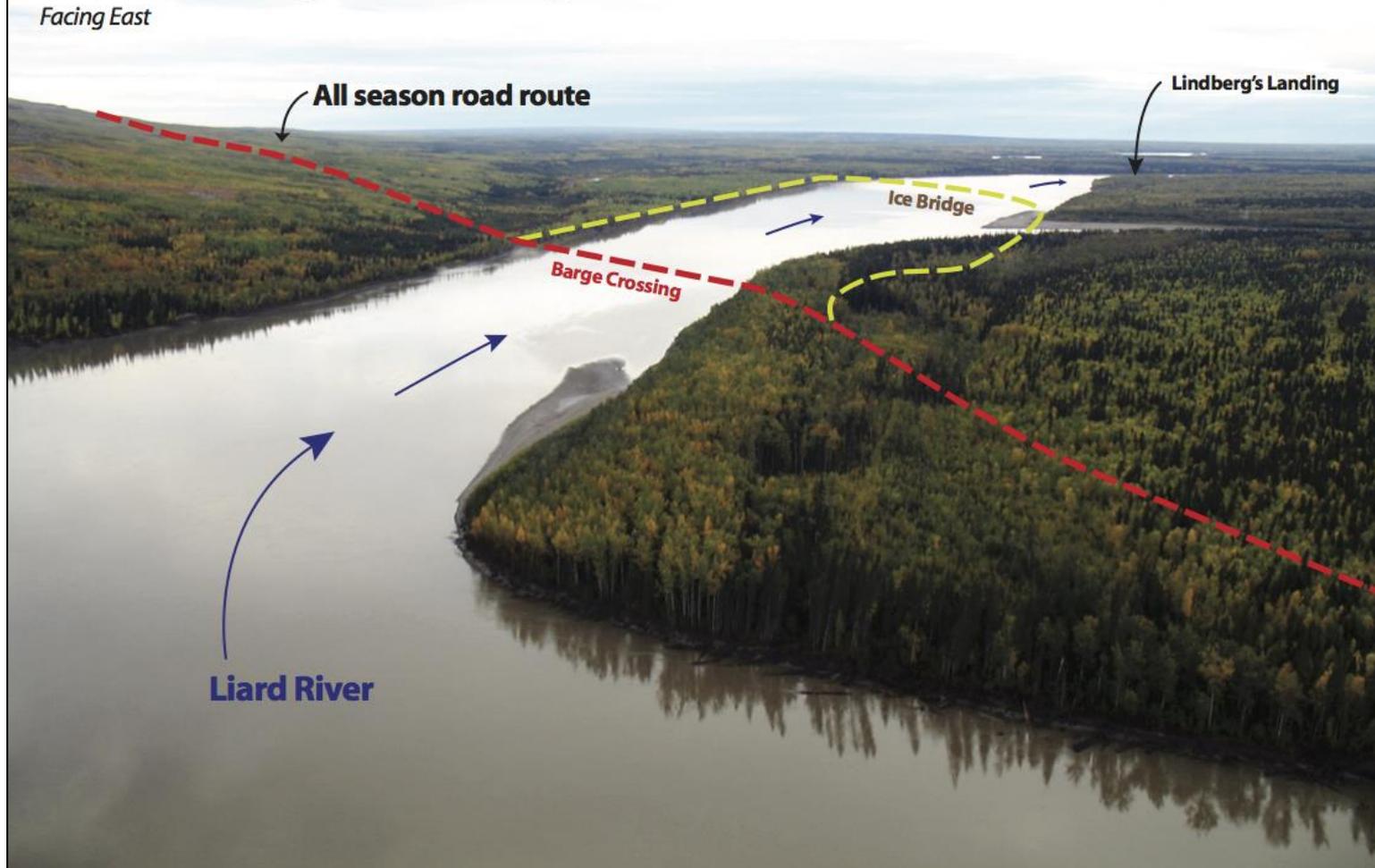
Silent Hills – Wolverine Pass



All season road: Liard Crossing

The all season road route at the Liard River Crossing: Location of Barge and Ice Bridge

Facing East



- Effects on Wildlife
- Hunting and Trapping
- Heritage Resources

Effects on Wildlife

- Main mountain woodland caribou range to north
- Mitigation to avoid collisions and minimize disturbance
- Mitigation to minimize disturbance to other wildlife, including birds
- Access control (checkpoint, private barge on river, road monitors, park boundary, IAB lands)

Hunting and Trapping

- Road facilitates access
- Access control

All Season Road, Heritage Resources



Winter Road

- NBDB TK Report in 2009 by Crosscurrents
- Archaeology investigation by Points West Heritage focused on the Grainger Gap, Wolverine Pass, Tetcela crossings, 2009
- Concluded IBA agreements in 2011 with NBDB and LKFN
- Archaeology Impact Assessment (AIA) completed on the road realignment from Grainger Gap to Liard River, 2012

All Season Road

- Meeting with Trappers/Hunters/Elders Jan 2015, Liard Crossing confirmed to be sufficiently downstream of grave sites
- Access Control discussions: private barge; checkpoint west of river; gate on IAB lands?
- March 2016, commitment by CZN to include NBDB members in initial road survey crews, check for heritage resources
- Currently engaged with NBDB regarding an additional Benefits Agreement relating to the All Season Road.

- **June 2016, CZN initiates Archaeology Overview Assessment (AOA) of the all season road to assist search by survey crews during road detailed design phase.**
- ***Lifeways of Canada Limited engaged***

An AOA is a desktop review of a project area conducted by a professional archaeologist that synthesizes the existing knowledge of archaeological resources and available traditional knowledge to assess landforms for their heritage resource potential. Heritage resource potential is determined on the basis of surface geology landform attributes, and specific regional cultural and natural histories. The objective of an AOA is to identify areas interpreted to have elevated potential for yet unrecorded heritage resources and for which an Archaeological Impact Assessment (AIA) may be recommended if those areas are to be Impacted by a development.

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