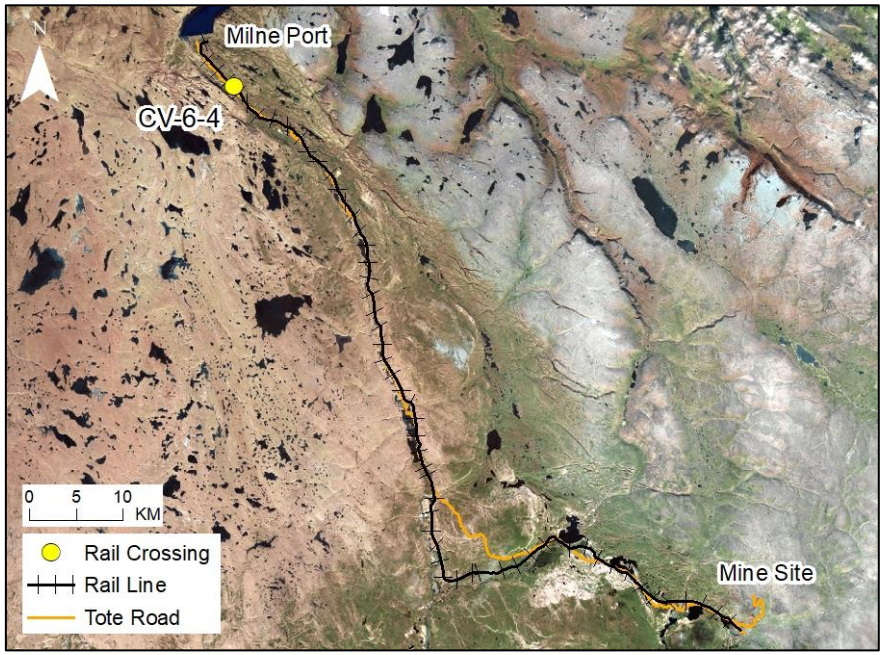
RAIL CV-6-4

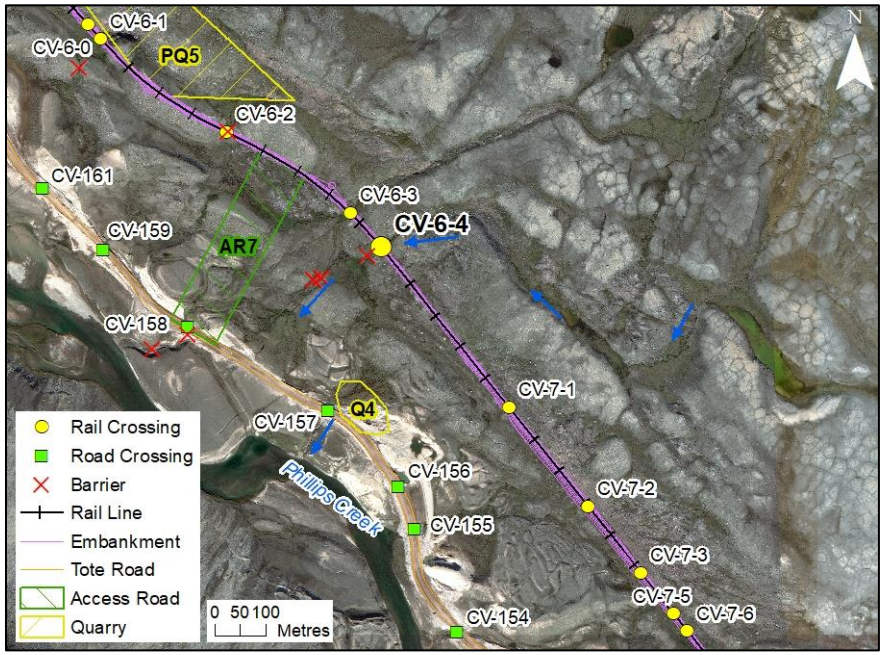
LOCATION AND CROSSING DESCRIPTION

Site ID:	CV-6-4	**Dates Surveyed:**	16-Jun-19	**Waterbody Type:**	Stream
Project Interaction:	Rail Daylight + Culvert	**Centreline UTM Coordinates:**	17W 507474 E 7970839 N	**Culvert Length (m):**	12
Number of Barrels:	1	**Culvert Diameter/Span (mm):**	900	**Slope (%):**	1

GENERAL PHYSICAL CHARACTERISTICS

Flow Regime:	Intermittent	**Stream Order:**	1	**Drainage Basin Area (km^2):**	0.509





SUMMARY

The North Rail crosses an unnamed intermittent stream at CV-6-4 that merges with the stream crossed at CV-6-3 approximately 120 m downstream of the crossing centreline. After merging, the stream flows to the existing Tote Road, splitting towards crossings at CV-158 and, to a lesser extent, CV-157 and ultimately to Phillips Creek.

There are three permanent barriers to upstream fish passage downstream of the rail crossing area including vertical drops, high gradient, and areas of subsurface flow. No fish were observed at the crossing in spring 2019.

Due to the permanent downstream barriers and the lack of connectivity to upstream overwintering habitat the crossing area does not provide fish habitat.

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BARRIERS

Upstream/ Downstream	UTM		Barrier Type			Height (m)	Gradient (°)	Description	Site Label
	Easting	Northing	1	2	3				
Downstream	507448	7970822	VD			1.0		Permanent Barrier: Vertical drop	A
Downstream	507355	7970778	SSF					Permanent Barrier: Subsurface flow; shared with CV-6-3	B
Downstream	507340	7970775	HG	VD		0.5	15	Permanent Barrier: High gradient with vertical drops and shallow water; shared with CV-6-3	C

A

B

C

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FISH HABITAT POTENTIAL

Nearest Potential Overwintering Habitat - ARCH: Milne Inlet **Distance to Nearest Potential Overwintering Habitat - ARCH (km):** 11.1

Overwintering Habitat Upstream of Site - ARCH (Y/N): No

Species	Spawning	Overwintering	Rearing	Adults Present
ARCH	N	N	N	N
NNST	N	N	N	N

FISHERIES DATA

Date: 16-Jun-19 **Temperature (°C):** NR **Gear Used:** Visual

Distance Fished (m): N/A **Duration Fished (seconds):** N/A

Species	Season	Effort (Seconds)	Fish Captured	Fish Observed	CPUE (No. Fish/60 Seconds)	Length Range (mm)
ARCH	Spring	N/A	N/A	0	-	-
NNST	Spring	N/A	N/A	0	-	-

COMMENTS

The crossing area does not provide fish habitat due to permanent barriers to fish passage downstream of the rail crossing and the absence of upstream overwintering habitat.

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16-JUN-19

A

B

C

Photos 1. Photos taken at the crossing centreline in spring: (A) facing upstream; (B) facing downstream; and (C) across (left bank looking at right bank).