

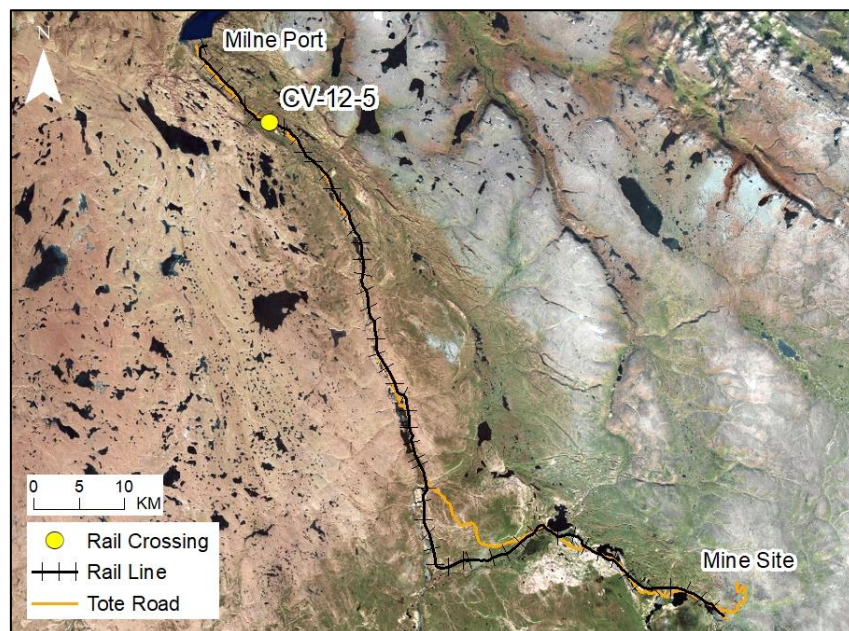
RAIL CV-12-5

LOCATION AND CROSSING DESCRIPTION

Site ID:	CV-12-5	Dates Surveyed:	18-Jun-19	Waterbody Type:	Pond
Project Interaction:	Rail Pond Infilling + Culvert	Centreline UTM Coordinates:	17W 511586 E 7967151 N	Culvert Length (m):	12
Number of Barrels:	1	Culvert Diameter/Span (mm):	900	Slope (%):	2

GENERAL PHYSICAL CHARACTERISTICS

Surface Area (m²):	1,012	Shoreline Length (m):	159	Drainage Basin Area (m²):	0.025
Maximum Depth (m):	-			Mean Depth (m):	-



SUMMARY

Site CV-12-5 is a shallow pond (approximate maximum depth 0.5 m) northeast of the existing Tote Road that will be partially infilled by the rail. Downstream of an unnamed culvert on the existing Tote Road, flows disperse across the tundra for approximately 100 m with no defined channel, insufficient depth for fish use (<0.01 m) during spring 2019, representing an intermittent barrier to fish passage. This outflow stream will also be crossed by a road diversion at site CV-131-1 before draining into Phillips Creek. Upstream, there are a series of shallow ponds and wetlands, none more than 0.5 m depth, that do not provide fish overwintering habitat.

There is a permanent high gradient barrier at the road diversion site (CV-131-1) that prevents fish access to the rail site at CV-12-5. The pond is of insufficient depth to support overwintering. There is no fish habitat at CV-12-5.

BAFFINLAND IRON MINES
MARY RIVER PROJECT

 **North/South Consultants Inc.**
Aquatic Environment Specialists

FISH HABITAT:

ARCTIC CHAR - NO

NINESPINE STICKLEBACK - NO

RAIL CV-12-5

BARRIERS

Upstream/ Downstream	UTM		Barrier Type			Height (m)	Gradient (°)	Description	Site Label
	Easting	Northing	1	2	3				
Downstream	511262	7967093	SHALL	HG			8	Permanent Barrier: Depth (<0.02 m) and gradient combine to create a hard barrier throughout the open-water season	A
Downstream	511455	7967105	SHALL					Intermittent Barrier: Water depth consistently shallow and decreasing to <0.02 m by summer	B



A



B

RAIL CV-12-5

FISH HABITAT POTENTIAL

Nearest Potential Overwintering Habitat - ARCH: N/A

Distance to Nearest Potential Overwintering Habitat - ARCH (km): N/A

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: 18-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	0	0	-	-
NNST	Spring	N/A	0	0	-	-

INFILL HABITAT

Area	Fines (%)	Gravel (%)	Small Cobble (%)	Large Cobble (%)	Boulders (%)
Nearshore	100	0	0	0	0
Offshore	100	0	0	0	0

OTHER NOTES/OBSERVATIONS

The pond lacks upstream connectivity to overwintering habitat and is not connected downstream to fish habitat.

RAIL CV-12-5

18-JUN-19



A



B



C



D

Photos 1. Photos of the pond at CV-12-5 in spring 2019: (A) looking north from the existing Tote Road; (B) looking southeast; and (C) looking west. Aerial photo of pond taken in fall 2018 (D).