

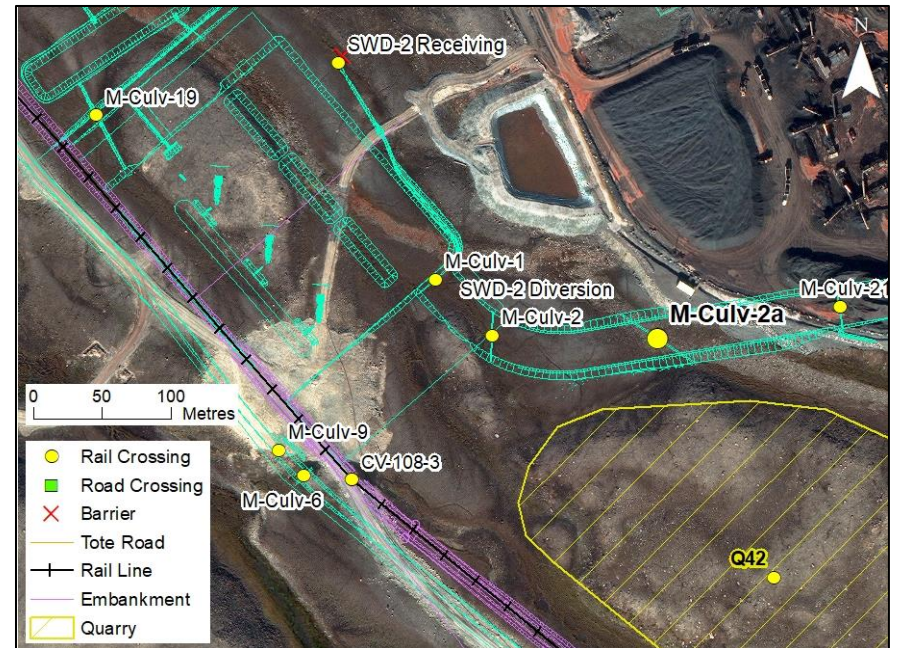
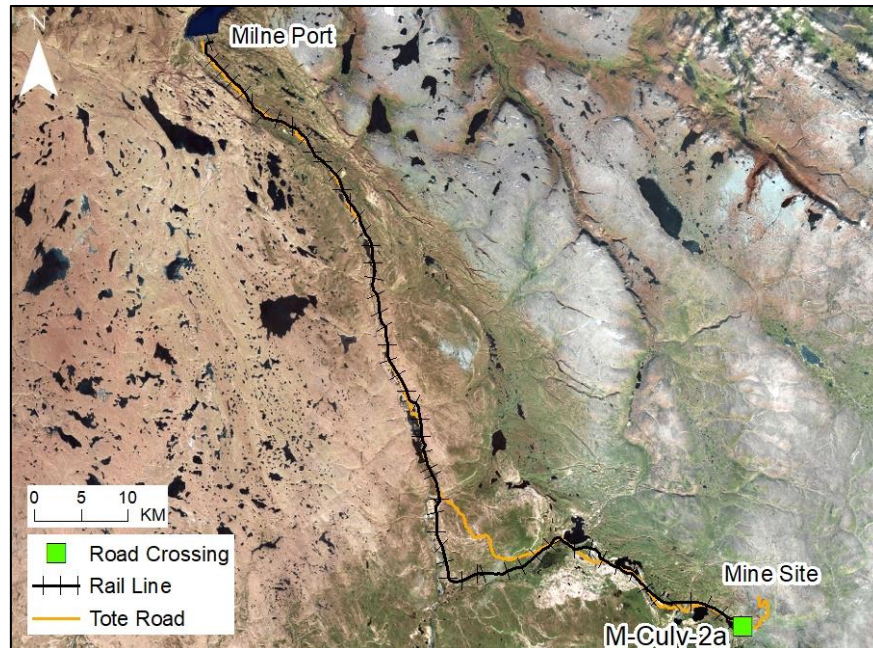
# ROAD M-CULV-2A

## LOCATION AND CROSSING DESCRIPTION

<b>Site ID:</b>	M-Culv-2a	<b>Dates Surveyed:</b>	27-Jun-19	<b>Waterbody Type:</b>	Stream
<b>Project Interaction:</b>	Road Culvert	<b>Centreline UTM Coordinates:</b>	17W 561588 E 7912840 N	<b>Culvert Length (m):</b>	65.979
<b>Number of Barrels:</b>	2	<b>Culvert Diameter/Span (mm):</b>	900	<b>Slope (%):</b>	1.5

## GENERAL PHYSICAL CHARACTERISTICS

<b>Flow Regime:</b>	Intermittent	<b>Stream Order:</b>	2	<b>Drainage Basin Area (km<sup>2</sup>):</b>	0.693
---------------------	--------------	----------------------	---	--	-------



## SUMMARY

The stream crossed at M-Culv-2a will be diverted approximately 160 m downstream from this site (at SWD-2-Diversion) to an adjacent tributary of the same stream (at site SWD-2 Receiving). This stream is a branch of the M-Culv-3A, M-Culv-3B, M-Culv-4 stream (also known as Sheardown Lake Tributary 1) that flows into Sheardown Lake approximately 1.1 km downstream of M-Culv-2a. At the M-Culv-2a centreline, surface water was limited to isolated pools among boulders in spring 2019. There was no flow and no connectivity to downstream crossings or other waterbodies at the time of the survey in spring 2019. Permanent subsurface flow barriers are located approximately 550 and 670 m downstream from the road centreline.

Due to the permanent downstream barriers, there is no fish habitat at the M-Culv-2a crossing.

**BAFFINLAND IRON MINES  
MARY RIVER PROJECT**

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

**FISH HABITAT:**

**ARCTIC CHAR - NO**

**NINESPINE STICKLEBACK - NO**



# ROAD M-CULV-2A

## BARRIERS

Upstream/ Downstream	UTM		Barrier Type			Height (m)	Gradient (°)	Description	Site Label
	Easting	Northing	1	2	3				
Downstream	561138	7913101	SSF					Permanent Barrier: Water flows under boulder field	A
Downstream	561054	7913187	SSF					Permanent Barrier: Existing construction footprint, no culvert, subsurface flow	B



# ROAD M-CULV-2A

## FISH HABITAT POTENTIAL

**Nearest Potential Overwintering Habitat - ARCH:** Sheardown Lake

**Distance to Nearest Potential Overwintering Habitat - ARCH (km):** ~1.1

**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:** 27-Jun-19

**Temperature (°C):** 9.0

**Gear Used:** Visual

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

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

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

## COMMENTS

No fish were captured or observed upstream of the barriers on this stream in spring and summer/fall 2019.

# ROAD M-CULV-2A

27-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).