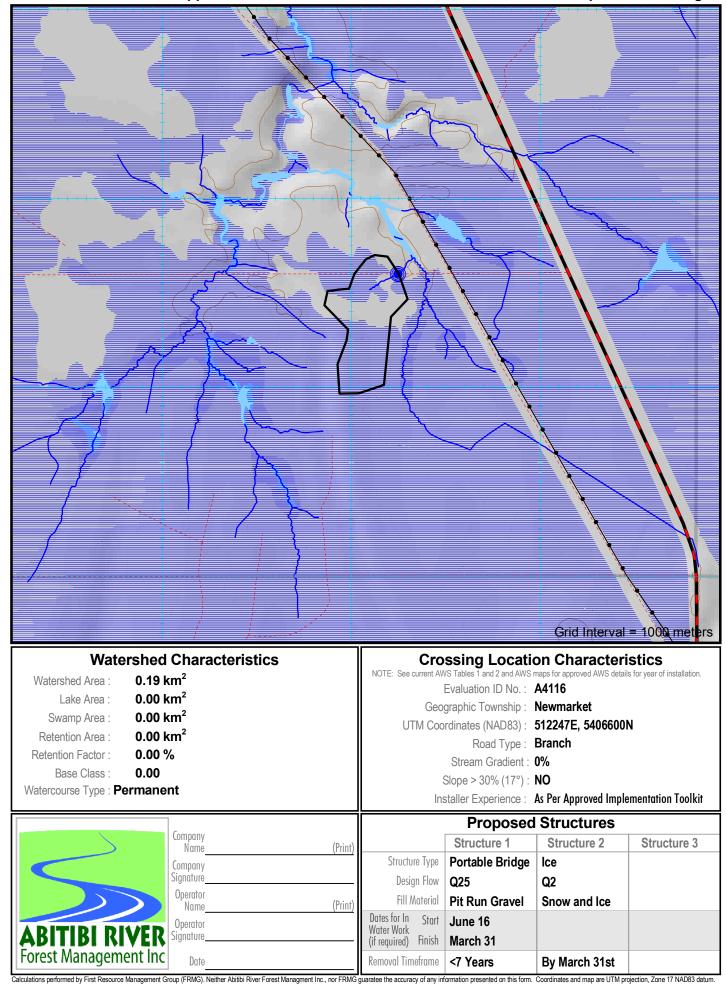
Abitibi River Forest Appendix 1: Form for Submission of Information on a Proposed Crossing



Shaded Area for ARFMI Road 0 Office Use Only Network No. Publication Date: December 12, 2023 Abitibi River Forest - S.F.L. # 551832 Proponent: Mike Montfort c/o P.O. Box 867 New Liskeard, Ontario P0J 1P0 (705) 680-0033 Plan Term: 2022-2032 AWS Year: 2024-25 Cu

lvert Design Options	Q ₂₅	Q ₁₀	Q ₅	Q _{2.33}
Design Flow	0.000 m ³ /sec	0.000 m³/sec	0.000 m ³ /sec	0.000 m ³ /sec
1 Round	450mm	450mm	450mm	450mm
2 Round	N/A	N/A	N/A	N/A
3 Round	N/A	N/A	N/A	N/A
1 Arch (BxD)	450x340mm	450x340mm	450x340mm	450x340mm
2 Arch (BxD)	N/A	N/A	N/A	-
3 Arch (BxD)	N/A	N/A	N/A	-
Required Oper	ning for bridges is calculat	ed as per the Crown Land	Bridge Management Guide	elines.

Conditions on Culvert Design Options

· Initial Fisheries Review based on one pipe. Two or more pipes requires a re-assessment. · Round culvert calculations assume 10% fill. For 20% fill, increase diameter to next highest stand . For 40% fill, use a round culvert diameter of the Base distance of the corresponding Arch style cu

General Standards

- No watercourse realignment, nor use of explosives is permitted.
 Minimize loss or disturbance to riparian vegetation. Restrict removal of riparian vegetation to the disturb footprint required for construction, maintenance and decommissioning of the water crossing.
- · Install erosion and sediment control measures prior to commencement of construction or decommiss prevent release of sediment or other deleterious substances into watercourse.
- · Fill material placed below the normal high water mark must be erosion-resistant and/or protected from • Direct storm water runoff from bridge decks, side slopes, road approaches and ditches away from the
- and into a retention pond or vegetated area. Ensure erosion and siltation in ditch lines adjacent to the watercourse crossing approaches are control sediment traps such as rock/soil dams or log jams as site conditions warrant. • Do not block or impede the free passage of water and fish at any time of year up and down stream,
- with the exception of potential and temporary blockage due to water crossing construction/decommiss
- Abide by fisheries in-water timing windows in the approved FMP and/or forest management guides. Where fishery communities are not well documented, the most restrictive in-water timing window mus · Complete all in-water construction and decommissioning activities in an uninterrupted fashion and in an
- timeframe to minimize potential for site disturbance. · If installation requires inwater work, do not locate within 100m of spawning or sensitive fish habitat
- eq. rapids, riffles, known overwintering areas.
- Maintain machinery free of fluid and fuel leaks. Wash, refuel and service machinery at least 30m from Store fuel and other materials for machinery a minimum of 30m from the watercourse.
- · Operate machinery on land with tracks/wheels above the normal high water mark, or on ice in a manne disturbance to the banks of the watercourse and adjacent riparian vegetation areas.
- · Remove all debris from construction and decommissioning work from the site following completion of the
- · If machinery fording is required, limit to a one-time event (over and back) per piece of equipment essen implementating the project, and only if using an existing crossing at another location is not available or If minor rutting is likely, watercourse bank and bed protection methods (e.g., swamp mats, pads) are be used provided they do not constrict flows or block fish passage;
- · Grading of the watercourse banks for the approaches is not permitted;
- . If the watercourse bed and banks are steep and highly erodible (e.g., dominated by organic material
- and erosion or degradation is likely, use a temporary crossing structure or other practice to protect th . The one-time fording must adhere to the appropriate in-water timing windows; Fording must occur u
- conditions and not when flows are elevated due to local rain events or seasonal flooding.

Self-assessed. Follow conditions of appropriate standard(s).

MNRF Appendix 2: Biologist Risk Evaluation Concerns and Conditions on Construction

The crossing is a portable bridge spanning the high water mark and/or a winter crossing; no in-water work is proposed and is low risk following standards and guidelines. This ranking does not authorize any undertaking that results in serious harm to fish, but suggests a low risk of causing serious harm to fish in compliance with the Fisheries Act following best practices such as those described in the DFO measures to avoid causing harm to fish and fish habitat and the standard mitigation techniques outlined in the FMP.

	Structure 1	Structure
Risk Evaluation:	LOW	LOW
Site Inspection Required:	NO	NO

Previously Used 2676 Crossing ID

Crossing Evaluation A4116 Reference Number

Fisheries Operational Management Zone (OMZ):
Standard for Self-assessed Water Crossing Construction, Removal and/or
Decommissioning: Clearspan Bridge
Previous Assessment Year (incl. SA): 2024
SAR species likely to be impacted: NO
Preconstruction photos available: NO

Within 500m of Brook Trout stream: NO

lard diameter. ulvert.	 All calculations are for projecting ends. Total pipe length normally not to exceed 20m. All calculations assume a Headwater Depth of 1.0. MP = Multi-Plate (i.e. SPCSP)
	Standards for Clearspan Bridges
bance	 Do not locate on meander bends, braided watercourses, alluvial fans, or any other area that is inherently unstable and may result in the alteration of natural stream functions or erosion and scouring of the water crossing structure.
ning to	 Use appropriate site-specific mitigation measures to ensure construction, including bridge cribs, abutments, and associated fill slopes are not subjected to the impacts
erosion.	of long-term or ongoing erosion. At a minimum, measures must include:
watercourse	 Stabilize clearspan bridges, including bridge cribs and fill slopes, with appropriately sized non-erodible material (e.g., rocks, cobble sized stones).
led using	 Rock used for stabilization is to be clean, free of fine materials, and of sufficient size to resist displacement during peak flood events.
	 Rock must be placed at the original watercourse bank grade to ensure that there
ioning activities.	is no infilling or narrowing of the watercourse.
	 Fill material placed below the normal high water mark must be erosion resistant
t be used.	and/or protected from erosion.
n appropriate	 Do not locate within 100 metres of fisheries spawning or sensitive habitat if any in-water work is a requirement of the project.
	 The bridge, including its abutments, must be placed entirely outside normal high water mark. The Forest Management Guide for Conserving Biodiversity at the Stand and Site Scales
watercourse.	refers to the normal high-water mark as the edge of vegetation communities capable of providing an effective barrier to the movement of sediment.
er that avoids	 Do not after the bed or banks of watercourse, or allow infilling or narrowing of the channel. Decommissioning will only occur if it is consistent with the approved road use management
he undertaking.	strategy of the FMP, and is scheduled in the AWS.
ntial to r practical.	 Upon decommissioning, including the removal of bridge abutments, cribs, and/or sill logs, the site must be stabilized and protected against erosion.
e to	Bridge abutments and cribs may only be left in place if in good condition, stable for the
	long term, and are not affecting watercourse or fish community dynamics,
	and if permissible in the approved FMP or AWS.
ls and silts)	 When decommissioning, surface water runoff and road approaches and ditches
nem;	must be directed away from the watercourse and into vegetated areas.
nder low-flow	Undertake any additional erosion mitigation practices required by the site conditions.
	standard(s)
MTEINO	etangarg(e)

Watershed Thermal Code : CL

MNRF Assigned Thermal Code at Crossing

2	Structure 3

IBI RIVER AINT MIT CT USSTITU	g Installation I	INUPULI (Must be comp	leted for each crossing location)		* 'As Built' Culvert I	nstallation Measurem (meters)	ents
Shareholder:		Block ID:		F	Installed Diameter :		
				CULVERT	Structure Length :		
Contractor:		Road Name:			Road Width :		
ITE CONDITIONS ENCOUNTEREI	D			Ö	Depth of Cover:		
ossing Located By:		Date Measurements Taken:			Water Depth in Pipe :		
					Number of Culverts :		
Stream Measurements	A	Å Å	Foundation Soil Description :		Spacing Between Pipes :		
(meters)		えん しょうしょう しんしょう しんしん しんしん しんしん しんしん しんしん	Sand Muck				
Flood Plain Width : A			Silt Rubble		* 'As Built' Bridge I	nstallation Measurem (meters)	ents
Bankful Width : B Channel width : C	F TE	- B	Clay Gravel		Bridge length :	G	
Depth - 25% of Channel : D (I)		• • • • • • • • • • • • • • • • • • • •	Channel Type:		Clear Opening Width :	H	
Depth - 50% of Channel : D (c)			Ephemeral		Freeboard (min 0.5m) :		
Depth - 75% of Channel : D (r)	Notes:		Intermittent Permanent	Ж	Flood Rise :	J	
Depth - Bankful Flow : E				BRIDGE	Fill Height :	K	
Depth — Floodplain : F			ARFMI Notification Provided : (ARFMI Advised- 'Change to Operation' made)	B	Left Slope Length :	L	
Stream Velocity : m /sec			FRI Incorrect		Left Slope Rise :	M	
			Unmapped		Right Slope Length :	N	
					Right Slope Rise :	0	
STALLATION CONDITIONS					Crib Width :	Р	
stallation Supervised By:		Date of installation:			Crib Height :	R	
							Water Crossing /
				Verifi	cation :		
	Monin/ Teal		Erosion Prevention and Control (X): (Indicate applicable measures taken)	Verifi	I have confirmed that the final a	rossing condition ssing standards and	Water cross
Permanent Temporary Decommission	monini / Teur		Erosion Prevention and Control (X): (Indicate applicable measures taken) ream banks and drainage ditch banks		I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	rossing condition ssing standards and f responsibility	
Permanent Temporary Decommission ote: Measurements (*) must be included for all ructures which remain in place beyond date of inspection Scheduled Removed	val Date:	Stable slopes on str	(Indicate applicable measures taken)	Verifi	I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	rossing condition ssing standards and f responsibility	Installation
Permanent Temporary Decommission ote: Measurements (*) must be included for all ructures which remain in place beyond date of inspection Scheduled Remov rown Land Bridge NAD 83 (Record Actual Cross	val Date:	Stable slopes on str	(Indicate applicable measures taken)		I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	rossing condition ssing standards and f responsibility	Installation No sedimer Construction Embankme Timing rest Culvert proj
Permanent Temporary Decommission lote: Measurements (*) must be included for all Scheduled Remov tructures which remain in place beyond date of inspection Scheduled Remov	val Date:	Stable slopes on str C Re-vegetate or seed sl	(Indicate applicable measures taken)		I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	rossing condition ssing standards and f responsibility	Installation No sedimer Construction Embankme Timing rest Culvert prop Sediment C No Erosion
Permanent Temporary Decommission lote: Measurements (*) must be included for all tructures which remain in place beyond date of inspection Scheduled Removes the	val Date:	Stable slopes on str C Re-vegetate or seed sl	(Indicate applicable measures taken)		I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	rossing condition ssing standards and f responsibility	Installation No sedimer Construction Embankme Timing rest Culvert prop Sediment C No Erosion No signs of Coarse clea
Permanent Temporary Decommission lote: Measurements (*) must be included for all tructures which remain in place beyond date of inspection Scheduled Remov irown Land Bridge NAD 83 (Record Actual Crossing Record Form submitted (i.e. MNR / ARFMI) NAD 83 (Record Actual Crossing Type: New Crossing Type: Structure Description:	val Date:	Stable slopes on str C Re-vegetate or seed sl	(Indicate applicable measures taken) ream banks and drainage ditch banks Course, clean rock to high water mark lopes (stream banks and ditch banks) Divert drainage ditches to green belt		I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	rossing condition ssing standards and f responsibility	Installation No sedimer Construction Embankme Timing rest Culvert prop Sediment C No Erosion No signs of Coarse clea Natural veg
Permanent Temporary Decommission lote: Measurements (*) must be included for all tructures which remain in place beyond date of inspection Scheduled Remov irown Land Bridge NAD 83 (Record Actual Crossing Type: NAD 83 (Record Actual Crossing Type: New Crossing Type: Structure Description:	val Date:	Stable slopes on str C Re-vegetate or seed sl Use rock weirs in d	(Indicate applicable measures taken) ream banks and drainage ditch banks Course, clean rock to high water mark lopes (stream banks and ditch banks) Divert drainage ditches to green belt Line drainage ditches with rock		I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	rossing condition ssing standards and f responsibility	Installation No sedimer Construction Embankme Timing rest Culvert prop Sediment C No Erosion No signs of Coarse clea Natural veg Additional Drainage di
Permanent Temporary Decommission lote: Measurements (*) must be included for all tructures which remain in place beyond date of inspection Scheduled Remov Crown Land Bridge NAD 83 (Record Actual Cross Bridge Record Form submitted (i.e. MNR /ARFMI) New Crossing Type: New Crossing Type: Structure Description: Box Culvert Steel	val Date:	Stable slopes on str C Re-vegetate or seed sl Use rock weirs in d Use fil	(Indicate applicable measures taken) ream banks and drainage ditch banks Course, clean rock to high water mark lopes (stream banks and ditch banks) Divert drainage ditches to green belt Line drainage ditches with rock Irainage ditches to impede water flow		I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	rossing condition ssing standards and f responsibility	Installation No sedimer Construction Embankme Timing rest Culvert prop Sediment C No Erosion No signs of Coarse clea Natural veg Additional Drainage di Crossing ref Road right
Vote: Measurements (*) must be included for all tructures which remain in place beyond date of inspection Scheduled Remov Crown Land Bridge NAD 83 (Record Actual Cross (*) (i.e. MNR / ARFMI) NAD 83 (Record Actual Cross (*) (i.e. MNR / ARFMI) New Crossing Type: Structure Description: Box Culvert Steel Arch Culvert Plastic	val Date:	Stable slopes on str C Re-vegetate or seed sl Use rock weirs in d Use fil No grubb	(Indicate applicable measures taken) ream banks and drainage ditch banks Course, clean rock to high water mark Course, clean rock to high water mark lopes (stream banks and ditch banks) Divert drainage ditches to green belt Line drainage ditches with rock Irainage ditches to impede water flow Iter cloth on upstream side of culverts	Note	I have confirmed that the final of satisfies the mandatory water cra will not impede future transfer o	ssing standards and f responsibility	Installation No sedimer Construction Embankme Timing rest Culvert prop Sediment C No Erosion No signs of Coarse clea Natural veg Additional of Drainage di Crossing rei Road right

