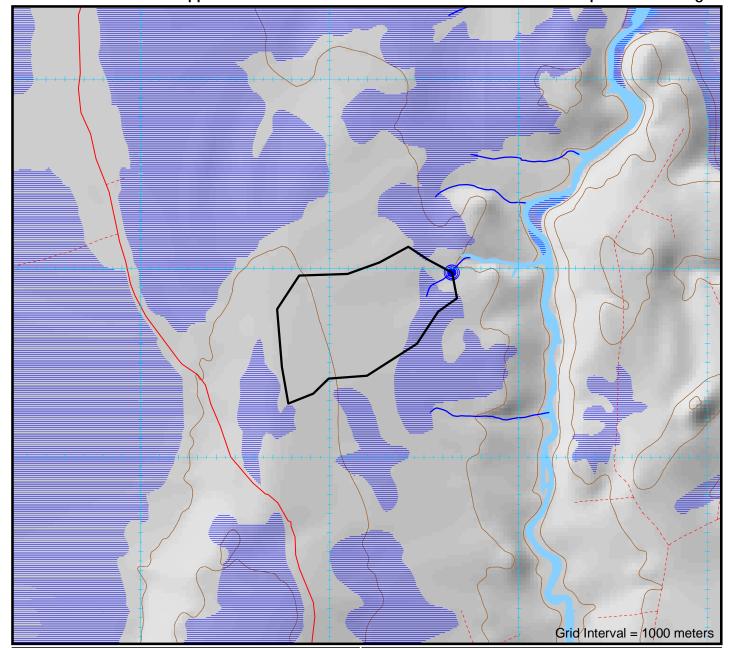
Abitibi River Forest Appendix 1: Form for Submission of Information on a Proposed Crossing



Watershed Characteristics

0.47 km² Watershed Area: 0.00 km² Lake Area: 0.00 km² Swamp Area: Retention Area: 0.00 km^2 Retention Factor: 0.00 % Base Class: 0.00 Watercourse Type: Permanent

Crossing Location Characteristics

NOTE: See current AWS Tables 1 and 2 and AWS maps for approved AWS details for year of installation.

Evaluation ID No.: A2985 Geographic Township: Blackstock

UTM Coordinates (NAD83): 509646E, 5352978N

Road Type: Operational

Stream Gradient: 0% Slope > 30% (17°): **NO**

Installer Experience : As Per Approved Implementation Toolkit



ı	Proposed Structures				
)		Structure 1	Structure 2	Structure 3	
۱	Structure Type	Ice	Portable Bridge	Culvert	
-	Design Flow	Q2	Q25	Q25	
)	Fill Material	Snow and Ice	Pit Run Gravel	Pit Run Gravel	
	Dates for In Start Water Work		July 16	July 16	
-	(if required) Finish		August 31	August 31	
-	Removal Timeframe	By March 31st	<7 Years	<2 Years	
_		By March 31st	<7 Years	<2 Years	

Droposed Structures

Calculations performed by First Resource Management Group (FRMG). Neither Abitibi River Forest Managment Inc., nor FRMG guaratee the accuracy of any information presented on this form. Coordinates and map are UTM projection, Zone 17 NAD83 datu

haded Area for ARFMI Road Network No. 348	Previously Used Crossing ID	Crossing Evaluation Reference Number A2985
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Publication Date: February 26, 2024

Fisheries Operational Management Zone (OMZ): Abitibi River Forest - S.F.L. # 551832

Standard for Self-assessed Water Crossing Construction, Removal and/or Proponent: Georgia-Pacific North Woods Decommissioning: Snow Fill and Ice Bridge Crossing c/o P.O. Box 867

New Liskeard, Ontario Previous Assessment Year (incl. SA): 2024 P0J 1P0 SAR species likely to be impacted: (705) 680-0033 NO Preconstruction photos available: Plan Term: 2022-2032

AWS Year: 2024-25 Q_{10} **Culvert Design Options** $Q_{2.33}$ **Design Flow** | 0.000 m³/sec 0.000 m³/sec 0.000 m³/sec 0.000 m³/sec 1 Round 450mm 450mm 450mm 450mm 2 Round N/A N/A N/A N/A N/A 3 Round N/A N/A N/A **1 Arch (BxD)** 450x340mm 450x340mm 450x340mm 450x340mm

Required Opening for bridges is calculated as per the Crown Land Bridge Management Guidelines.

N/A

N/A

Conditions on Culvert Design Options

· Initial Fisheries Review based on one pipe. Two or more pipes requires a re-assessment.

2 Arch (BxD) N/A

3 Arch (BxD) N/A

• Round culvert calculations assume 10% fill. For 20% fill, increase diameter to next highest standard diameter.

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 disturbance footprint required for construction, maintenance and decommissioning of the water crossing.
- Install erosion and sediment control measures prior to commencement of construction or decommissioning to prevent release of sediment or other deleterious substances into watercourse.

• For 40% fill, use a round culvert diameter of the Base distance of the corresponding Arch style culvert

- Fill material placed below the normal high water mark must be erosion-resistant and/or protected from erosion. • Direct storm water runoff from bridge decks, side slopes, road approaches and ditches away from the watercourse
- and into a retention pond or vegetated area.

 Ensure erosion and siltation in ditch lines adjacent to the watercourse crossing approaches are controlled using 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/decommissioning activities. • 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 must be used. • Complete all in-water construction and decommissioning activities in an uninterrupted fashion and in an appropriate
- timeframe to minimize potential for site disturbance.

 If installation requires inwater work, do not locate within 100m of spawning or sensitive fish habitat eg. rapids, riffles, known overwintering areas.
- Maintain machinery free of fluid and fuel leaks. Wash, refuel and service machinery at least 30m from watercourse. 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 manner that avoids 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 undertaking. • If machinery fording is required, limit to a one-time event (over and back) per piece of equipment essential to
- implementating the project, and only if using an existing crossing at another location is not available or practical.

 If minor rutting is likely, watercourse bank and bed protection methods (e.g., swamp mats, pads) are to
- 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 materials and silts) and erosion or degradation is likely, use a temporary crossing structure or other practice to protect them;
- The one-time fording must adhere to the appropriate in-water timing windows; Fording must occur under low-flow conditions and not when flows are elevated due to local rain events or seasonal flooding.

· All calculations are for projecting ends. Total pipe length normally not to exceed 20m.

NO

- All calculations assume a Headwater Depth of 1.0.
- MP = Multi-Plate (i.e. SPCSP)

Within 500m of Brook Trout stream:

N/A

N/A

Standards for Snow Fill and Ice Bridge Crossings

- Do not dredge, place fill on, grade or excavate the bed or banks of the watercourse.
- Do not use earth fill or aggregate below the normal high water mark. Crossings must
- be constructed of clean water, ice and snow free of dirt and debris Snow fills and ice crossings must not restrict water flow within the watercourse where it
- occurs naturally during winter conditions, or otherwise completely obstruct fish passage
- · Do not locate within 100 metres of fisheries spawning or sensitive habitat.
- Appropriate seasonal conditions must be present (e.g., adequate depth of snow and ice, winter temperatures) to provide certainty that construction and removal standards can be satisfactorily implemented.
- No aggregate or loose woody material used to top the crossing.
 If logs or corduroy are used to stabilize the approaches:
 The logs must be clean;

Watershed Thermal Code: UF

- The logs may be bound together to facilitate removal and minimize site disturbance;
- No logs or woody debris are to be left within the watercourse;
- Corduroy (if used) adjacent to the watercourse banks must be removed and placed outside the floodplain to help prevent a damming effect on site. Corduroy that is frozen or embedded into the road approaches or watercourse banks must be left in place so as to not expose mineral soil adjacent to the watercourse. The remaining snow and ice can be left to melt in the spring. If required, remedial work will be carried out on the site after the crossing is removed to ensure that no logs or woody debris can wash back into the watercourse.
- Logs may be placed on road approaches to assist in diverting runoff away from the watercourse; however, they must be placed outside of the floodplain and in such a manner as to ensure that they do wash back into the watercourse.
- Sanding of snow and ice crossings must be kept to a minimum and within the bounds of operational health and safety considerations.
- · Corduroy logs or brush mats must be installed on the approaches when conditions are soft in order to avoid disturbing the banks and crossing approaches.
- If water is being pumped from a watercourse to reinforce the crossing, the intakes must be sized and adequately screened to prevent debris blockage and fish entrainment.

MNRF Assigned

Thermal Code

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

MNRF Appendix 2: Biologist Risk Evaluation

Concerns and Conditions on Construction

Structure 1: 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. Structures 2,3:

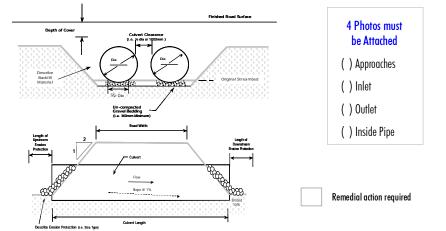
	Structure 1	Structure 2	Structure 3	
Risk Evaluation:	LOW LOW		LOW	
Site Inspection Required:	NO	NO	NO	

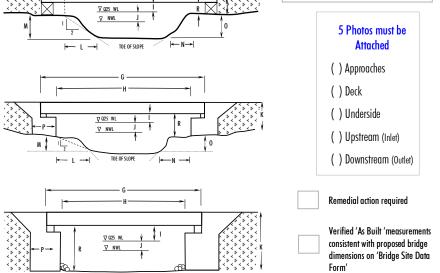
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ABITIBI RIVER Forest Management Inc

ΔRFMI Cross	ing Installation I	Renort	1.16	Only certifie	ed inspectors are allowed to condu	ct Forest Operations Insper	ctions for submi
TIBI RIVER Management Inc	ing marananan	(Must be com	* 'As Built' Culvert Installation Measurements (meters)			nents	
Shareholder:		Block ID:		 	Installed Diameter :		
`antroctori		Road Names		CULVERT	Structure Length :		
Contractor:		Road Name:			Road Width :		
TE CONDITIONS ENCOUNTE	RED			O	Depth of Cover:		
Crossing Located By:		Date Measurements Taken:			Water Depth in Pipe :		
					Number of Culverts :		
Stream Measurements			Foundation Soil Description :		Spacing Between Pipes :		
(meters)	<u>l</u>		Sand Muck				
Flood Plain Width : A		徐 徐	Silt Rubble		* 'Ac Ruilt' Bridge I	nctallation Measuren	ments
Bankful Width : B		A ————————————————————————————————————	Clay Gravel		* 'As Built' Bridge Installation Measure (meters)		ments
Channel width : C	F E	<u>v</u>	Channel Type:		Bridge length :	idge length : G	
Depth - 25% of Channel : D (I)	D (I)	† †) D(c) D(r)	Ephemeral Ephemeral		Clear Opening Width :	Н	
Depth - 50% of Channel : D (c)	Notes:		Intermittent		Freeboard (min 0.5m) :	I	
lepth - 75% of Channel : D (r)			Permanent	99	Flood Rise :	J	
Depth - Bankful Flow : E			ARFMI Notification Provided :	BRIDGE	Fill Height :	K	
Depth — Floodplain : F		(ARFMI Advised- 'Change to Operation' made)	•	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		1			Crib Width :	P	
tallation Supervised By:		Date of installation:			Crib Height :	R	
ossing Permanency :Refer to Structure Removal Timeframe s	pecified in AWS 4 and 5 Month / Year		Fracian Proportion and Control /V	Verific	ation: I have confirmed that the final a	rossing condition	Water C
Permanent Temporary Deco	mmissioned Date:		Erosion Prevention and Control (X): (Indicate applicable measures taken)		satisfies the mandatory water cro will not impede future transfer of	ssing standards and	lns No
ote: Measurements (*) must be included for all	ed Removal Date:	Stable slopes on st	tream banks and drainage ditch banks	Notes	·		7 🔲 Co
Uctores which remain in prace beyond date of inspection		_	Course, clean rock to high water mark	I Note:	J .		En Tir
	ctual Crossing Location on Stream Segment):	Re-vegetate or seed s	slopes (stream banks and ditch banks)				Cu Se
Bridge Record Form submitted (i.e. MNR /ARFMI)			Divert drainage ditches to green belt				No
New Crossing Type Causaluse Description		_	Line drainage ditches with rock				No.
New Crossing Type: Structure Description: Type of Fill: Box Culvert Steel Sand		Use rock weirs in drainage ditches to impede water flow					No Ad
Arch Culvert Plastic	Gravel		filter cloth on upstream side of culverts				Dro
Round Culvert Wood	Rock Rubble		obing or stripping of ground vegetation				Cro
Portable Bridge Concrete	Other		of ice if fill is used for Winter Crossings)				Ro
eel Stringer Bridge Ford (Engineered)		oso mior cioni (on top o	Other:	Note: All of the above activities must be checked. 🗸 - Verified to be within acceptable			
Winter Snow Pack			Ulliel:	I certify that the	activities inspected are fully complia	nt based on an Siana	nture.

FOIP Report Number : FOIP database

Inspector Name:





Verification :	Water Crossing Activity (X):
I have confirmed that the final crossing condition	Water crossing location same as AWS submission
satisfies the mandatory water crossing standards and	Installation of culvert and size same as described in AWS water shed calculations.
will not impede future transfer of responsibility	No sediments or woody debris left in water body or streams
Natari	Construction materials removed from site
Notes:	Embankment sloped properly (e.g. 2:1) with no possibility of slumping
	Timing restriction met
	Culvert properly installed (i.e. refer to FMP Standards)
	Sediment Control Plan in AWS followed
	No Erosion or Sedimentation present (e.g. filter cloth used to prevent material from entering waterway)
	No signs of equipment or machinery in stream (i.e. culvert installed before equipment progresses past crossing)
	Coarse clean rock used on all culvert crossings
	Natural vegetation protected
	Additional measures used to prevent erosion (e.g. seed, filter cloth, rip rap etc.)
	Drainage ditches properly installed
	Crossing removed before March 31 unless left for silviculture activities
	Road right of way width through unallocated stands , no larger than FMP requirement
	Road right of way width through AOC's (reserves), no larger than FMP requirement
Note: All of the above activities must be checked. 🗸 - Verified to be	within acceptable limits 🗶 - Outside of acceptable limits. Refer to comments for additional details N/A — Not applicable

inspection appropriate to support this decision.

Date: ___

Bridge Used (Identification #):