



Cutblock [IAN002](#)
Riparian Assessment Report

Written by: Hyland Fraser – October 12, 2015
Amended: April 18, 2016

Introduction

The primary objective of this riparian assessment is to provide rationale for the classification of watercourses, lakes and wetlands within and adjacent to [IAN002](#) and to provide recommended stream or gully prescriptions.

Cutblock Overview:

Cutblock	IAN002
Operating Area	Dinan
Watershed	Ian Lake 3
Slope Range	10 - 60%
Elevation Range	60m – 300m
Aspect	East and West
Forest Cover	Cedar, Hemlock, Spruce

Stream Information

Table 1: Detailed Information (Streams, Lakes and Wetlands)

[illegible]

Classification Rationale

Donna Creek-R1 (Type 1): is a large stream that flows directly into Ian Lake. There are no visible barriers so it was assumed to be fish bearing.

Donna Creek-R2 (Type 2): is a large stream that flows directly into the Type 1 reach of Donna Creek. The gradient of this reach has classified it to Type 2. There are no visible barriers separating the two reaches so it was assumed to be fish bearing.

Streams 2, 3, 4, 5, 6 and 7 (Upland Streams): are small streams that flow directly into Donna Creek. The sidewalls along Donna Creek are incised creating a barrier to fish passage so these streams were defaulted to non-fish bearing.

Streams 4A and 6A (Upland Streams): are second order streams that flow into streams 4 and 6. The barrier adjacent to Donna Creek has defaulted these streams to non-fish bearing.

Stream 8 (Type 1): is a small stream that flows directly into Ian Lake. There are no visible barriers so it was assumed to be fish bearing.

Streams 8A-R1, 9, 10 and 11-R1 (Type 2): are small streams that flows directly into Ian Lake. There are no visible barriers so they were assumed to be fish bearing; stream 9 was assessed by Pacificus.

Streams 8A-R2 and 11-R2 (Upland Streams): are small streams that flow directly into the Type 2 sections of streams 8A and 11. Barriers consist of a falls of 1.5m on stream 8A and a gradient barrier of 30% for 30m on stream 11. These have been defaulted to non-fish bearing.

Riparian Strategies

Table 2 provides critical information that is required for the formulation of stream prescriptions. The table serves as a means of documenting why streams are cleaned of debris (or not cleaned) and if other measures are required to protect channel integrity, stream banks and/or other downstream values.

Table 2: Riparian Strategies Table for S5 and S6 Streams

Watercourse Id.	Is the stream connected to a Community Watershed with a licensed domestic water supply intake, Marine Sensitive Zone, lake, fish stream, wetland containing fish, or FSZ?	Distance away (meters) from feature listed in Column 2	Is there evidence of Sensitive Stream banks or potentially unstable stream channels that require special protective measures	Are there trees located along the stream bank that contribute significantly to the maintenance of stream bank or channel stability?	Downstream Transport Potential	Downstream Impact Potential
2	Yes	90m	No	No	Low	High
3	Yes	65m	No	No	Low	High
4	Yes	340m	No	No	Mod	High
4A	No	460m	No	No	Low	Mod
5	Yes	150m	No	No	Low	High
6	Yes	200m	No	No	Low	High
6A	No	270m	No	No	Low	Mod
7	Yes	255m	No	No	Low	High
8A-R2	Yes	170m	No	No	Low	High
11-R2	Yes	195m	No	No	Low	High

Recommendations:

Donna Creek-R1, Stream 8 (Type 1): These streams are outside the proposed harvest area of IAN002.

Donna Creek-R2, Streams 8A-R1, 9, 10 and 11-R1 (Type 2): These streams are outside the proposed harvest area of IAN002.

Streams 2 and 3 (Upland Streams): These streams are located along the proposed right of way accessing IAN002. All material from the right of way falling will be removed from the stream during road construction.

Streams 4, 5, 6 and 7 (Upland Streams): A portion of these streams are located within the proposed harvest area of IAN002 and are directly connected to Donna Creek. Introduced large woody debris should be removed from the stream channels during yarding operations.

Streams 4A and 6A (Upland Streams): These streams are second orders streams that flow into streams 4 and 6. No cleaning is recommended.

Stream 8A-R2 (Upland Stream): This stream is located outside the proposed harvest area but adjacent to the boundary from FC72 to FC84. Any snags that are felled across this stream for safety reasons should be removed during yarding operations.

Stream 11-R2 (Upland Stream): A portion of this stream is located within the proposed harvest area and flows directly into fish bearing streams. All introduced large woody debris should be removed from the stream channel during yarding operaitons.

Attachments

☒ 1:5,000 Riparian Assessment Map (all streams, FSZs, fish sample site locations and numbers, barriers to fish)

☒ Field / Traverse Notes & Field Stream Cards. Digital cards should be stored on the server.

☒ Streams located with GPS equipment

Sign Off

	Print Name	Signature	Date
Report Prepared by:	Hyland Fraser, RPF		April 18, 2016