

General

When riparian features (streams, wetlands and/or lakes) are located within or adjacent to cutblock boundaries during multi-phase sales development, the following procedures must be used for establishing boundary locations and internal reserves.

1. A windthrow assessment must be completed for each riparian feature.
2. The location of the harvest boundary will be established based upon the windthrow risk in accordance with the table below. This is intended to prescribe 100% retention between the riparian feature and the harvest boundary.
3. The windthrow risk for each riparian feature must be stated in the Site Plan, providing clearly the measurable distance the boundary has been established from the riparian feature.
4. If there are areas that do not meet the definition of the Harvest Area (see MP contract) located in the remainder of the riparian management zone (RMZ) then the boundary should be established to also exclude these areas from harvest (ie. increase the distance from the riparian feature).
5. If the RPF responsible for the Site Plan chooses to meet the FSP standards for riparian retention through a measurable means other than what has been indicated in the table below, then a signed/sealed rationale must be provided in support of this decision.
6. A 5 meter machine free zone (MFZ) must be established if the harvest boundary is located within 5 meters of a riparian feature.

Nothing in this document relieves the Qualified Registered Professional responsible for the Site Plan from the obligation to prescribe adequate and appropriate retention to meet the intent and standard for riparian management in the approved FSP. In all cases, professional judgement must be applied to prescribe a measurable retention level.

Table 1: Guidelines– Vanderhoof Forest District (Jan. 25, 2007)

Riparian Feature/Classification	Windthrow Risk (in RRZ or RMZ)	Minimum distance (harvest boundary to riparian feature)
S1A stream	High	60 metres
	Moderate	30 metres
	Low	0 metres*
S1B stream	High	62 metres
	Moderate	56 metres
	Low	50 metres
S2 stream	High	42 metres
	Moderate	36 metres
	Low	30 metres
S3 stream	High	32 metres
	Moderate	26 metres
	Low	20 metres
S4 stream	High	0 metres*
	Moderate	9 metres
	Low	18 metres
S5 or S6 stream	High*	No minimum distance – retain deciduous and non-MPB susceptible species, where practicable. 5 meter MFZ
	Moderate*	
	Low	

W1 or W5 wetland	High	34 metres
	Moderate	22 metres
	Low	10 metres
W3 wetland	High	0 metres*
	Moderate	9 metres
	Low	18 metres
L1-B (A) lake	High	230 metres
	Moderate	215 metres
	Low	210 metres
L1-B (B) lake	High	80 metres
	Moderate	70 metres
	Low	60 metres
L1-B (C) lake	High	72 metres
	Moderate	58 metres
	Low	44 metres
L1-B (D) lake	High	64 metres
	Moderate	46 metres
	Low	28 metres
L1-B (E) lake	High	34 metres
	Moderate	26 metres
	Low	18 metres
L3 lake	High	0 metres*
	Moderate	9 metres
	Low	18 metres

*A 5-metre machine free zone (MFZ) must be established if the harvest boundary is located within 5 metres of the riparian feature.

Table 2: Guidelines – Ft St James Forest District (Aug. 9, 2006)

Riparian Feature/Classification	Windthrow Risk (in RRZ or RMZ)	Minimum distance (harvest boundary to riparian feature)
S1A stream	High	50 metres
	Moderate	30 metres
	Low	0 metres*
S1B stream	High	60 metres
	Moderate	56 metres
	Low	50 metres
S2 stream	High	40 metres
	Moderate	36 metres
	Low	30 metres
S3 stream	High	30 metres
	Moderate	26 metres
	Low	20 metres
S4 stream	High	0 metres*
	Moderate	9 metres
	Low	15 metres
S5 or S6 stream	High*	No minimum distance – retain deciduous and non-MPB susceptible species, where practicable. 5 meter MFZ
	Moderate*	
	Low	
W1 or W5 wetland	High	26 metres
	Moderate	18 metres
	Low	10 metres

W3 wetland	High	0 metres*
	Moderate	9 metres
	Low	15 metres
L1-A (B) lake	High	75 metres
	Moderate	65 metres
	Low	50 metres
L1-A (A-M) lake	High	150 metres
	Moderate	110 metres
	Low	50 metres
L1-B (A) lake	High	225 metres
	Moderate	215 metres
	Low	200 metres
L1-B (A-M) lake	High	150 metres
	Moderate	110 metres
	Low	50 metres
L1-B (B) lake	High	75 metres
	Moderate	65 metres
	Low	50 metres
L1-B (C) lake	High	65 metres
	Moderate	51 metres
	Low	30 metres
L1-B (D) lake	High	55 metres
	Moderate	37 metres
	Low	10 metres
L3 lake	High	0 metres*
	Moderate	9 metres
	Low	15 metres

*A 5-metre machine free zone (MFZ) must be established if the harvest boundary is located within 5 metres of the riparian feature.

Windthrow Assessments will generally be conducted using the MoFR FS 712 Windthrow Assessment Field Cards or similar accepted methodology.

The Site Plan must describe how the following Forest Stewardship Plan requirements will be achieved:

Retention levels within the RMZ of those water bodies that have a Riparian Reserve Zone (RRZ):

1. To minimize the risk of windthrow to the RRZ;
2. Where high wildlife values are present, maintain the diversity, productivity and sustainability of that wildlife habitat; and
3. Where applicable minimize impacts to recreation.

Retention levels within the RMZ of S4 streams:

1. To minimize impact on stream channel dynamics, stream bank stability, stream temperature and maintain water quality;
2. To maintain an adequate long and short term supply of large woody debris in the stream channel; and
3. Utilize existing stream-side vegetation (alder, willow, immature saplings etc.), combined with slope and aspect of the block to meet shading requirements for the stream, strive to maintain at least 40% of the channel cover. Utilize deciduous species for short-term large woody debris (LWD) and target younger age-classes (10-12 stems/100 m. of stream length) for recruitment of long-term LWD (target individuals with a good probability of falling across the stream).

Retention levels within the RMZ of those remaining water bodies that have do not have RRZ:

1. To maintain water quality; and
2. To minimize impact to wildlife habitat.