

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH16DMK010**

POLYGON: 2015-PHI-011

HECTARES:

12.89

WALKTHROUGH DISTANCE:

500

ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4)

0 0.0%

SUMMARY OF CURRENT INFESTATION

Walkthrough found no signs of current or old attack. Stand is a mix of Spruce Balsam with Aspen/Balsam 90% in the west half of Polygon.

NO ATTACK

ACCESS

Access was by ATV for 2km on good road, Damaged bridge at start of Quad access otherwise may have been 4WD

POLYGON FEATURES (Topography, Terrain, Timber Types, Age)

Small Spruce stand average DBH 25-35cm and leading in Balsam. Area walked had 30% Spruce, rest of Polygon to the west <10% from recchi. Spruce only located in the East. Flat Polygon

SIZE, BOUNDARY and PATTERN OF INFESTATION

No recent or old attack found.

INCIDENCE AND SEVERITY OF ATTACK

No recent or old attack found.

RISK OF BEETLE SPREAD

None as no attack found, Boundaried by the road, swamps, bott jack lake, and a very minimal spruce stand comprised of Aspen and Balsam

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access other than used ATV as bridge damaged at start of Quad access.

RECOMMENDATIONS**OPTION 1****NO ACTION**

From walkthrough did not find any signs of recent or old attack. Stand to the west half of Polygon is predominantly aspen/balsam, and spruce stand to the east showing no signs of attack.

OPTION 2**MONITOR**

2015-PHI-011

SPRUCE BEETLE WALKTHROUGH

Legend

 NO ATTACK FOUND

Boot Jack Lake

Fluff Lake

Google earth

Image © 2015 Province of British Columbia



500 m

Summary						
2015-PHI-011	HEC	12.89	METERS WALKED	500	% TRAVERSED	3.9%
PIXELS COVERED BY WALKTHROUGH	5	INFESTED PIXELS	0	ESTIMATED % OF BLOCK INFESTED (From Walk through)		0.0%

TABLE 5- Spruce Beetle Infestation Summary Sheet

OF NOTE- Results taken from a 100m Probe Line established at 1 per 50 hectares to represent

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			2015		2014		2013		
			1	2	3	4	5	6	
17.5-25.0	3.3	0	0.0	0.0	0.0	0.0	0.0	0.0	16.5
25.1-30.0	5.3	0	0.0	0.0	0.0	0.0	0.0	0.0	15.9
30.1-35.0	7.1	0	0.0	0.0	0.0	0.0	0.0	0.0	56.8
35.1-40.0	9.4	0	0.0	0.0	0.0	0.0	0.0	0.0	0
40.1-45.0	11.6	0	0.0	0.0	0.0	0.0	0.0	0.0	0
45.1-50.0	13.8	0	0.0	0.0	0.0	0.0	0.0	0.0	0
50.1-55.0	16.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0
55.1-60.0	18.7	0	0.0	0.0	0.0	0.0	0.0	0.0	0
60.1 +	25.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0
TOTALS	0.0	0	0.0	0	0.0	0.0	0.0	0	89.2

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density	MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 4.9 LOW Mean Larval Density
	1.0- 1.9 MOD Attack Density		5.0 - 14.9 MOD Mean Larval Density
	2.0 - 3.9 HIGH Attack Density		15-24.9 HIGH Mean Larval Density
	< 3.9 SEVERE Attack Density		>24.9 EXTREME Mean Larval Density
0.00		0.00	

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2015 ATTACK	0.0%	0.0	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	0.0
% 2013 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	20.0%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

NO RPOBE LINE, NO ATTACK FOUND, AREA WALKED HAD 30% SPRUCE, REST POLYGON <10%

SUMMARY OF ALL CARDS
FS1111

NUMBER OF CARDS
0

ACCESS -

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POLYGON FEATURES -

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DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			2015		2014		2013			
			1	2	3	4	5	6	BL	AT
17.5-25.0	3.3	0	0	0	0	0	0	0	5	0
25.1-30.0	5.3	0	0	0	0	0	0	0	3	0
30.1-35.0	7.1	0	0	0	0	0	0	0	8	0
35.1-40.0	9.4	0	0	0	0	0	0	0	0	0
40.1-45.0	11.6	0	0	0	0	0	0	0	0	0
45.1-50.0	13.8	0	0	0	0	0	0	0	0	0
50.1-55.0	16.2	0	0	0	0	0	0	0	0	0
55.1-60.0	18.7	0	0	0	0	0	0	0	0	0
60.1 +	25.3	0	0	0	0	0	0	0	0	0
TOTALS		0	0	0	0	0	0	0	16	0

BARK SAMPLES 15 cm x 15 cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN		
						Attacked Yr	Yr	Unattacked
0	0	0	0	0	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

No recent or old attack found.

INCIDENCE AND SEVERITY OF THE INFESTATION

No recent or old attack found.

RISK OF BEETLE SPREAD

None as no attack found, Boundaried by the road, swamps, bott jack lake, and a very minimal spruce stand comprised of Aspen and Balsam

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

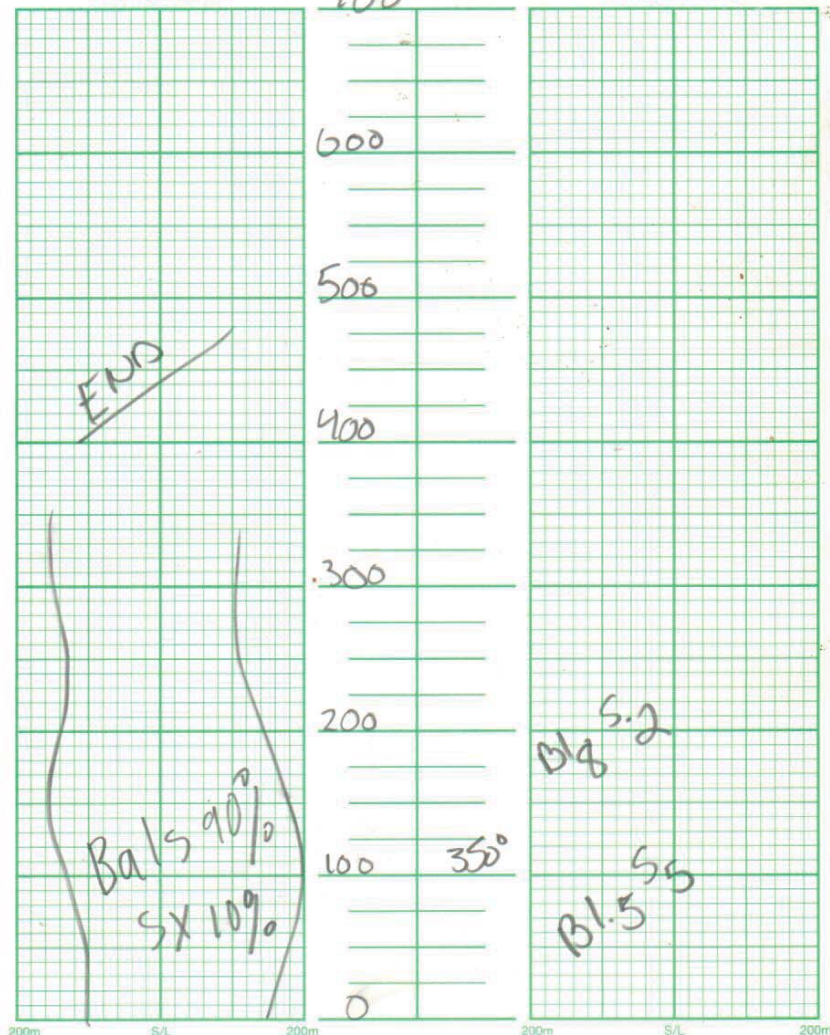
Good access other than used ATV as bridge damaged at start of Quad access.

TOPOGRAPHY

STRIP No.

200.1

TIMBER TYPE



STRIP NO.:

1

DIRECTION:

290° - 350°

START STRIP:

0-700

JOB NO.:

P141-011

DATE:

12-10-2015

CREW:

REMARKS:



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