

**SENECA ENTERPRISES LTD.**

PO BOX 1902, PRINCE GEORGE, BC, V2L 5E3

Phone: (250) 561-0890, Fax: (250) 564-3275

**SPRUCE BARK BEETLE REPORT
FH17DPG218**POLYGON: **2016-BLA-0182** HECTARES: **15.1**WALKTHROUGH DISTANCE: **1600**ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4) **3 18.8%****SUMMARY OF CURRENT INFESTATION**

Walkthrough found 3 Code 1 attacked trees, all single attacks in 3 pixels. Site has low sanitation rating and moderate attack density from 1 probe line. Flight will happen in 2017 as callow adults present in bark samples taken. Site has several older attacked trees as well with 8-Code 5's noticed. Further down the road to the south similar findings with very light singuor attack in SITE 2016-BLA-0188

LIGHT SCATTERED ATTACK**ACCESS**

Polygon is accessed off of roadside Scovil FSR.

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

0-30% Slopes in areas, mainly relatively flat with average of 0-10% slopes. Mainly Balsam, mixde with alder and aspen.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Polygon 15 hectares with 19% infested pixels. Invested pixels are single attacks and very light. Beetle moving from river west to east and light to moderate scattered attack.

INCIDENCE AND SEVERITY OF ATTACK

1 probe line has attack density Moderate with low larval density. Ares ome callow adults and beetle will be flying 2017. Attack will be slowed as cutblocks to east and south.

RISK OF BEETLE SPREAD

Polygon has pockets of singular attack that are scattered throughout polygon/. Boundaried by cutblocks to the West and the south.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access, minimal slopes. Alongside mainline road with river along west side.

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

Sanitation and Salvage Rating is low from 1 probe line, spread should be minimal as cutblock blocks movement to the west and south. Other probe sites in the immediate area have minimal attack, just some older attack.

OPTION 2**TRAP TREES/ MONITOR**

With access good, could lay a trap tree trail, or baits as polygon is immediately off of mainline. Is another SITE further south along mainline which has even less attack. 2016-bla-0188

Summary						
2016-BLA-0182		15.1	METERS WALKED	1600	% TRAVERSED	10.6%
PIXELS COVERED BY WALKTHROUGH		16	INFESTED PIXELS	3	ESTIMATED % OF BLOCK INFESTED (From Walk through)	18.8%

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	13.2
25.1-30.0	5.3	0	0.0	0.0	0.0	0.0	0.0	0.0	47.7
30.1-35.0	7.1	63.9	0.0	0.0	0.0	0.0	0.0	0.0	63.9
35.1-40.0	9.4	28.2	9.4	0.0	0.0	0.0	0.0	0.0	84.6
40.1-45.0	11.6	23.2	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	124.7	115.3	9.4	0	0.0	0.0	0.0	0	209.4

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	
1.40			1.60		

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2015 ATTACK	7.5%	7.5	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	281.4
% 2013 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	37.3%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

SUMMARY OF ALL CARDS FS1111										NUMBER OF CARDS		1
ACCESS -		Polygon is accessed off of roadside Scovil FSR.										
POLYGON FEATURES -		0-30% Slopes in areas, mainly realtively flat with average of 0-10% slopes. Mainly Balsam, mixde with alder and aspen.										
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	4	0		
25.1-30.0	5.3	0	0	0	0	0	0	0	9	0		
30.1-35.0	7.1	9	0	0	0	0	0	0	9	0		
35.1-40.0	9.4	3	1	0	0	0	0	0	9	0		
40.1-45.0	11.6	2	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		14	1	0	0	0	0	0	31	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		
5		7	0	8	0	7	0		0	0		
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION												
Polygon 15 hectares with 19% infested pixels. Invested pixels are single attacks and very light. Beetle moving from river west to east and light to moderate scattered attack.												
INCIDENCE AND SEVERITY OF THE INFESTATION												
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RISK OF BEETLE SPREAD												
Polygon has pockets of singular attack that are scattered throughout polygon/. Boundaried by cutblocks to the West and the south.												
ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES												
Good access, minimal slopes. Alongside mainline road with river along west side.												

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INCIDENCE AND SEVERITY OF THE INFESTATION

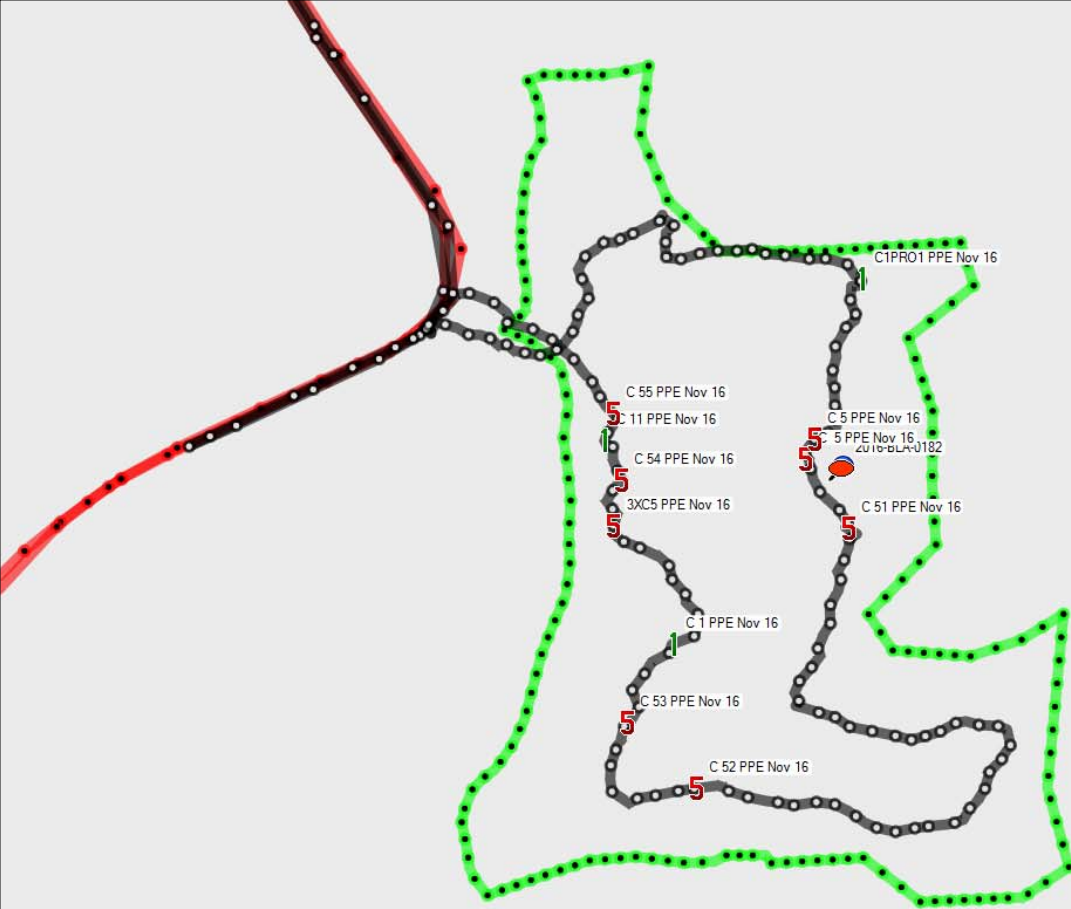
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RISK OF BEETLE SPREAD

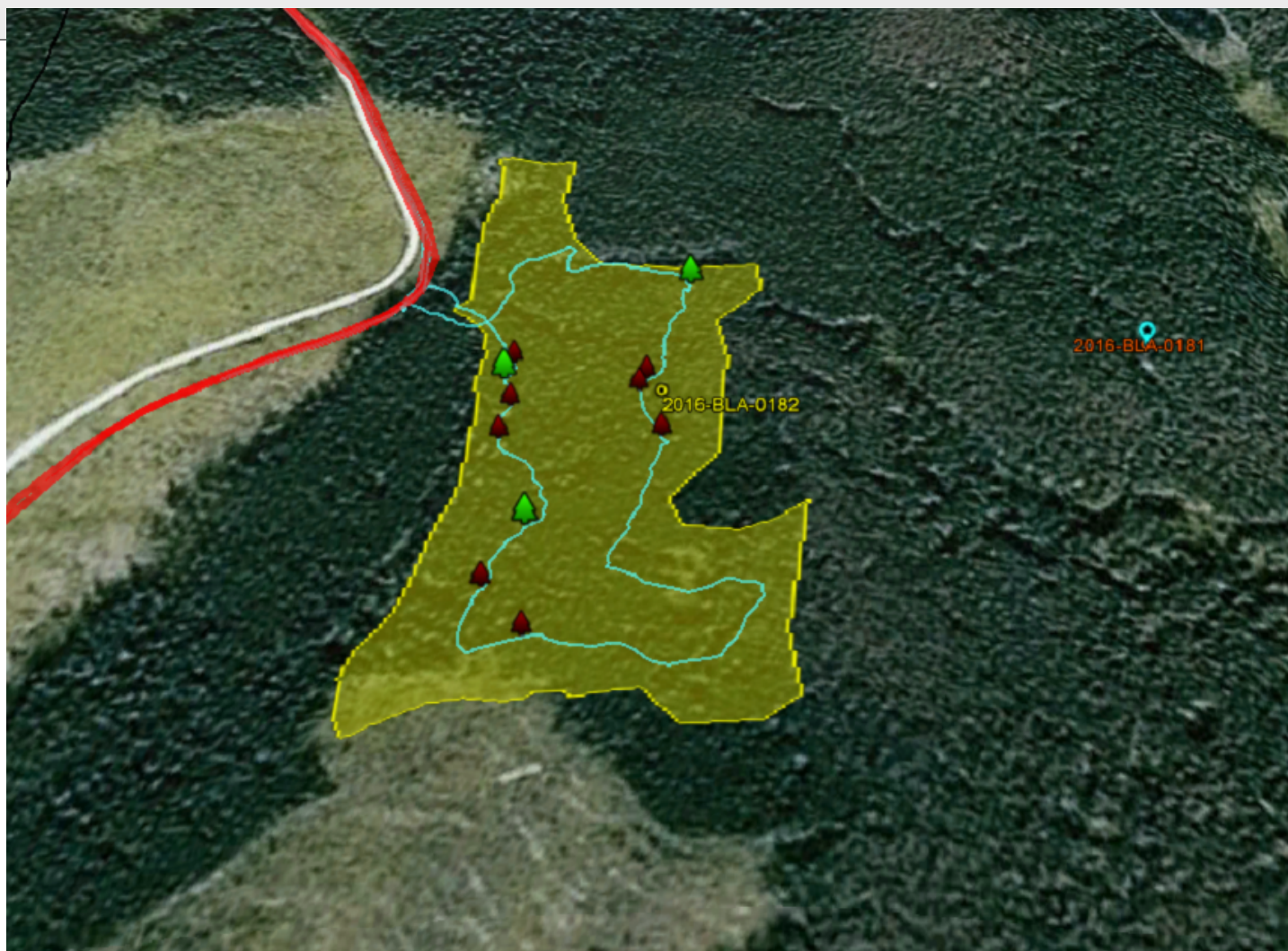
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2016-BLA-0182



SPRUCE PROBE

LOCATION		PAGE						
BEARING		DISTANCE		STRIP WIDTH				
49083 W127647								
S		100		S				
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK					
			1	2	3	4	5	6
17.5 - 25.0	3.3							
25.1 - 30.0	5.3							
30.1 - 35.0	7.1	☒						
35.1 - 40.0	9.4	☐	○					
40.1 - 45.0	11.6	☐						
45.1 - 50.0	13.8							
50.1 - 55.0	16.2							
55.1 - 60.0	18.7							
60.1 +	25.3							
TOTALS		14	1					
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (G)		
						Attacked		
W	3		8		2			
E	4		8		5			
COMMENTS								
CREW NAMES								
PATRICK Remyer								
						DATE		

FS 1111 RPG 2000/01 7530881048 (100/bdl)

TOPOGRAPHY

STRIP No.

BLA 182

TIMBER TYPE

[illegible]

STRIP NO.: DIRECTION:

START STRIP:

JOB NO.: _____ DATE: _____

CREW: PATRICK PELETIER NOV 16

REMARKS: _____  www.irlsupplies.com

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