

**SENECA ENTERPRISES LTD.**

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

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

WALKTHROUGH DISTANCE: 2660

**SPRUCE BARK BEETLE REPORT
FH17DPG218**

POLYGON: 2016-CLE-0031 HECTARES: 22.4

ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4) 10 37.6%**SUMMARY OF CURRENT INFESTATION**

Walkthrough estimate shows 37% of polygon has Code 1-4 attack. Will be some flight 2017 due to cde 3's and some code 1's on a 1 year life cycle. Minimal risk of spread as surrounding points have little to no activity and polygon is boundaried to the east by cutblock. Low sanitation rating.

LIGHT SCATTERED ATTACK**ACCESS**

Polygon is alongside Clearwater FSR. River runs through middle of polygon

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

Minimal slopes throughout, some small draws. Boundary on the west is river, cutblock and mainline road most of the east side. Overall 50% Spruce Balsam mix.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Polygon 22 hectares with 37% infested pixels. Beetle moving from river west to east and light to moderate scattered attack.

INCIDENCE AND SEVERITY OF ATTACK

From 3 probe lines show that much of the attack was Code 1's hwith some code 3's. So will be flight in 2017, but minimal attack and sporadic. Polygon has cutblock to most of the east and will have ittle chance to spread.

RISK OF BEETLE SPREAD

Polygon has pockets of attack that are scattered throughout polygon/. Boundried by cutblock to the east, and weasn;t any beetle to the south.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

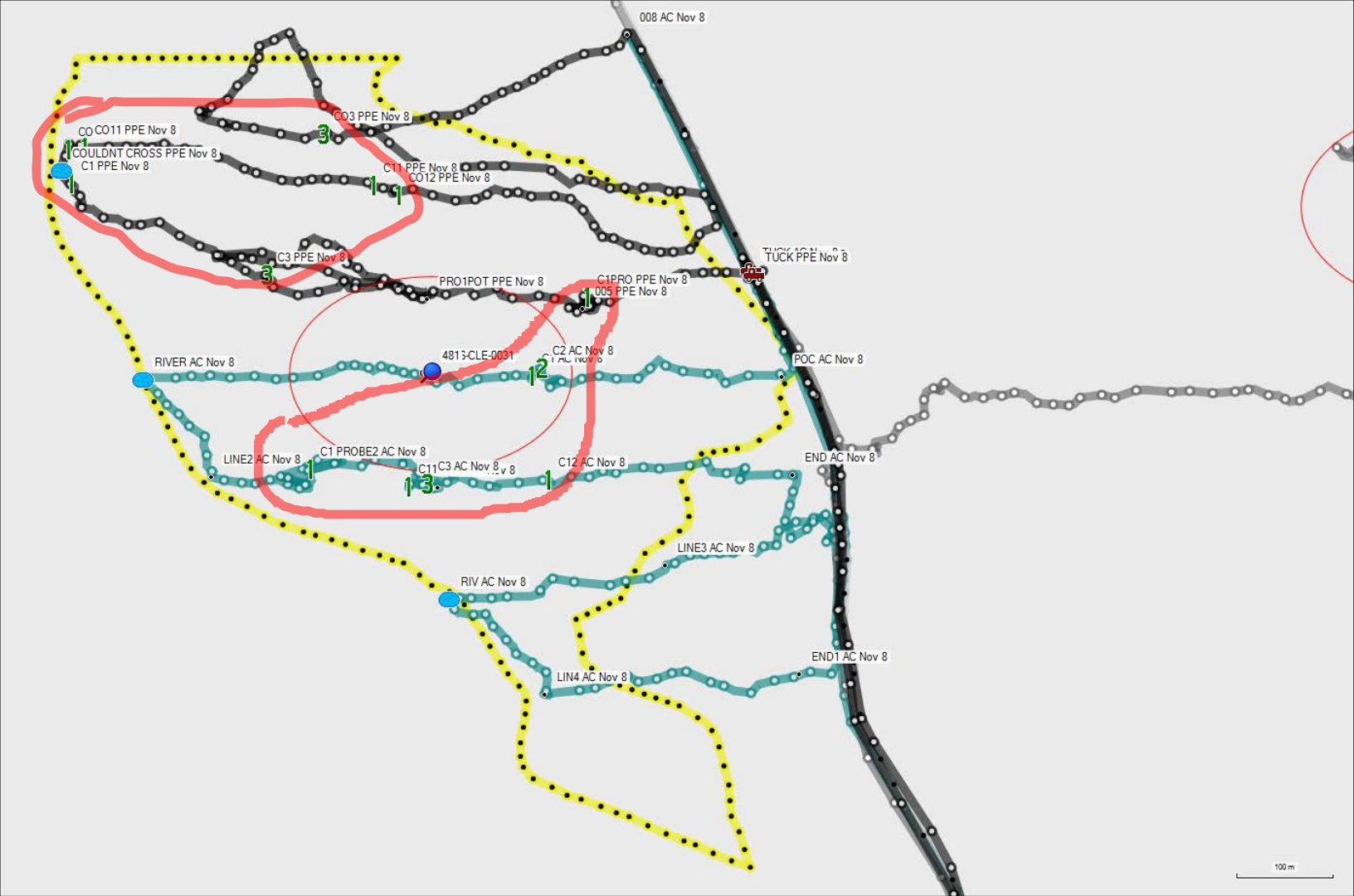
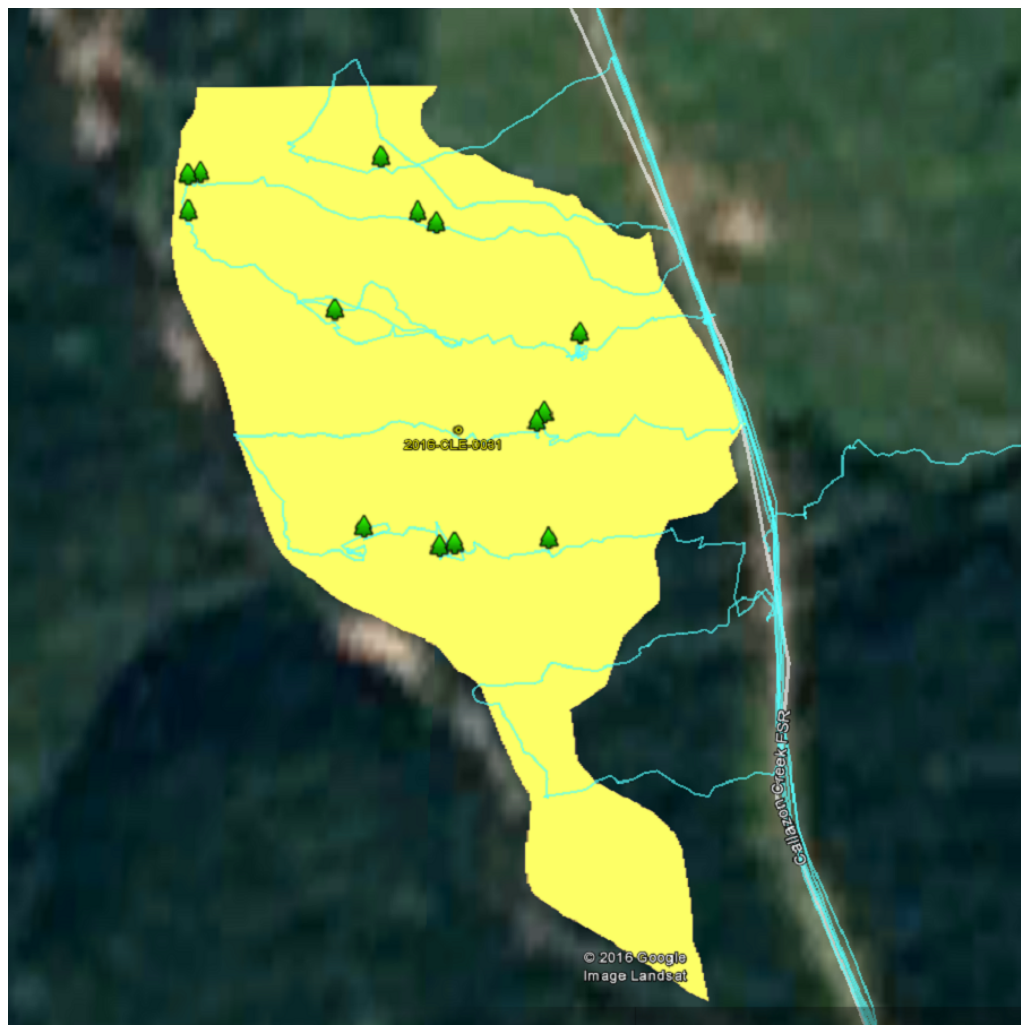
Good access, minimal slopes. Alongside mainline road with river along west side.

RECOMMENDATIONS**OPTION 1****MONITOR**

Sanitation and Salvage Rating is low from 3 probe lines, spread should be minimal as cutblock blocks movement to the east. 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 off of mainline. Is an area further south along mainline where moderate attack and trap trees may be utilized. (Around sites 2016-CLE0061, 0062 and 0067)




**SPRUCE BEETLE
PROBE CARD**

LOCATION <i>clever</i>		1000501133		PAGE OF		elev- 870m				
BEARING <i>90° east</i>		DISTANCE <i>520m-620m</i>		STRIP WIDTH <i>10m</i>						
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			1	2	3	4	5	6		
17.5 - 25.0	3.3									B
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			9	2						11
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
North										
South										
COMMENTS <i>⊙ - Bark sample</i>										
CREW NAMES <i>Aspen Colebank</i>						DATE Y M D <i>2006 11 08</i>				


**SPRUCE BEETLE
PROBE CARD**

LOCATION <i>51219/6</i>		PAGE OF				elev- 870m				
BEARING <i>5</i>		DISTANCE <i>100</i>		STRIP WIDTH <i>5</i>						
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			1	2	3	4	5	6		
17.5 - 25.0	3.3									B
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			29							21
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
W										
E	3		8		5					
COMMENTS <i>⊙ = BS</i>										
CREW NAMES <i>Aspen</i>						DATE Y M D <i>2006 11 08</i>				



BRITISH
COLUMBIA



SPRUCE BEETLE PROBE CARD

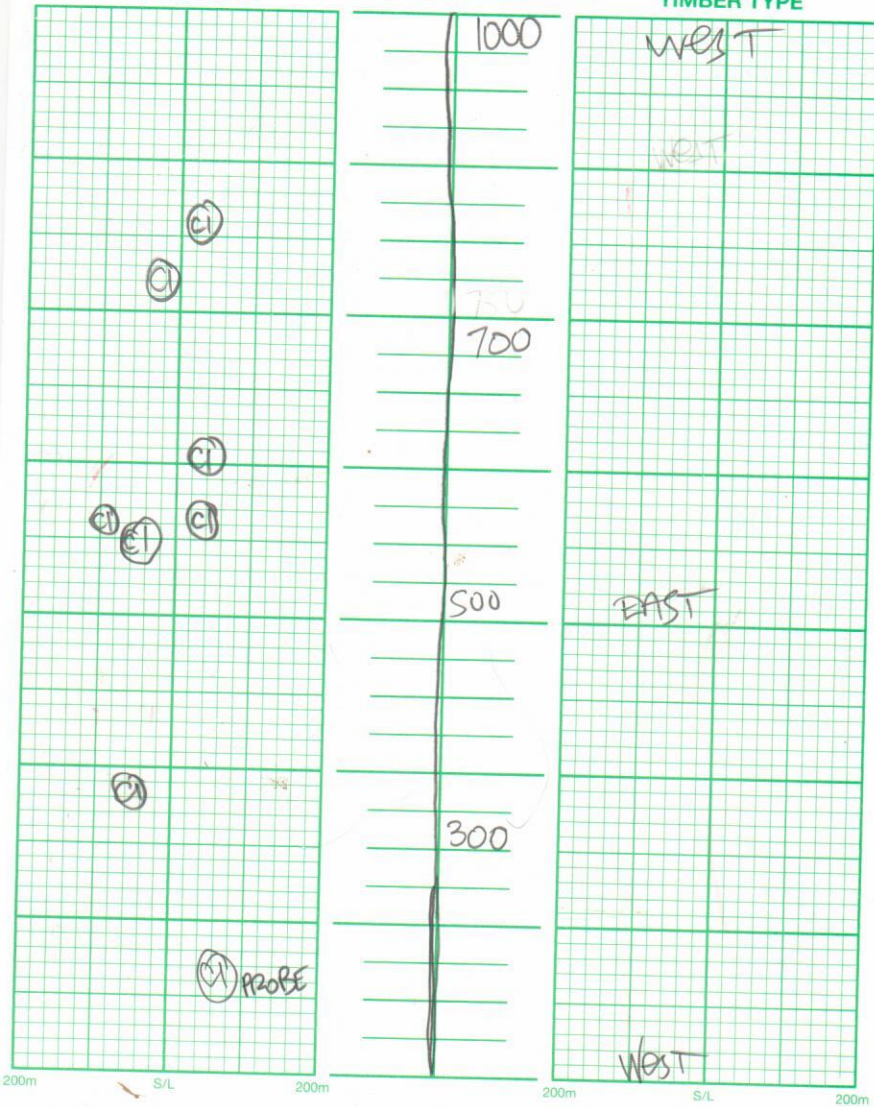
30031

LOCATION 501329 116172425		PAGE OF							
BEARING W		DISTANCE 100	STRIP WIDTH 5						
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			1	2	3	4	5	6	
17.5 - 25.0	3.3								50
25.1 - 30.0	5.3	10							
30.1 - 35.0	7.1	11							21:0
35.1 - 40.0	9.4	10		10					10
40.1 - 45.0	11.6								10
45.1 - 50.0	13.8	11							1
50.1 - 55.0	16.2	11							
55.1 - 60.0	18.7								
60.1 +	25.3								
TOTALS		29		1					22
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
11	5		2		3				
11	8		7		8				
COMMENTS									
CREW NAMES Pelletier Patrick					DATE 16 11 8				

TOPOGRAPHY

STRIP No. CL0031

TIMBER TYPE



STRIP NO.: CL0031 DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: NOV 8 2016

CREW: PATRICK PELLETIER

REMARKS: _____



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Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No. 02 0031

TIMBER TYPE

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200m S/L 200m 200m S/L 200m

STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: _____

CREW: _____

REMARKS: _____



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CLE-031 - Line 1 - 270° west

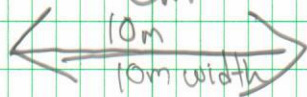
450m

400m

200m

C1 C2

0m



Line 1 - 0-450m - P.O.C. 1000501467
6172363

Aaron Colebank Nov 8th, 2016

① Flat, easy walking, flooded in parts
Roadside

-031- Line 2 - 90° east

860m

650m

620m

520m

C1

C3

C1

Part
Sampler

C1

Probe 2 start

450m

10m width

Line 2 - 450m - 860m - P.O.C. 1000501863
6172260

Aaron Colebank Nov 8th, 2016

② Flat ground

FIELD

FIELD

Cle-031- Line 3+4 - 90° east & 270° west

1260m

line 4 ends
@ 1190m

1190m

1060m

1010

line 3 ends
@ 1010m

860m

Line 3-860m-1010m Line 4-1010m-1190

line 3 POC- 10U0501385 Line 4- 10U0501306
G172169 G172036

Aaron Colebank, Nov 8th, 2016

(*) flat