SENECA ENTERPRISES LTD.
PO BOX 1902, PRINCE GEORGE, BC, V2L 5E3
Phone: (250) 561-0890, Fax: (250) 564-3275

SPRUCE BARK BEETLE REPORT
FH17DPG218

STAR PROBE# **2016-PHI-0124** 205

NUMBER OF CODE 1-4 ATTACK 1

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION

LIGHT ATTACK

Grouping of sites PHI-0123, 0124, 0125 and 0126. All sites are west of mainline and all surrounded by fresh cutblocks. Very light attack with sites PHI-0123 and PHI-0124 Having Isolated single Code 3 Attack with light Sanitation priority ratings. Other sites no signs of attack.

ACCESS

From truck, walk 600m to 2.2km west to sites

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

Site 0123 has Stream along North, cutblock to west. Site 0124 open stand with cutblock at 30m East. Site 0125 has cutblock at 50m to the north. Site 0126 has Heavy Balsam in stand.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Surrounded by cutblocks with 2 sites having single Code 3 attacked trees. Very isolated light scattered attack.

INCIDENCE AND SEVERITY OF ATTACK

Surrounded by cutblocks with 2 sites having single Code 3 attacked trees. Very isolated light scattered attack amongst sparse spruce stands with smaller DBH

RISK OF BEETLE SPREAD and SURROUNDING SITES

Minimal. Sites 0123 and 0124 has one current attacked tree amongst low volume of spruce. All sites are surrounded by fresher cutblocks.

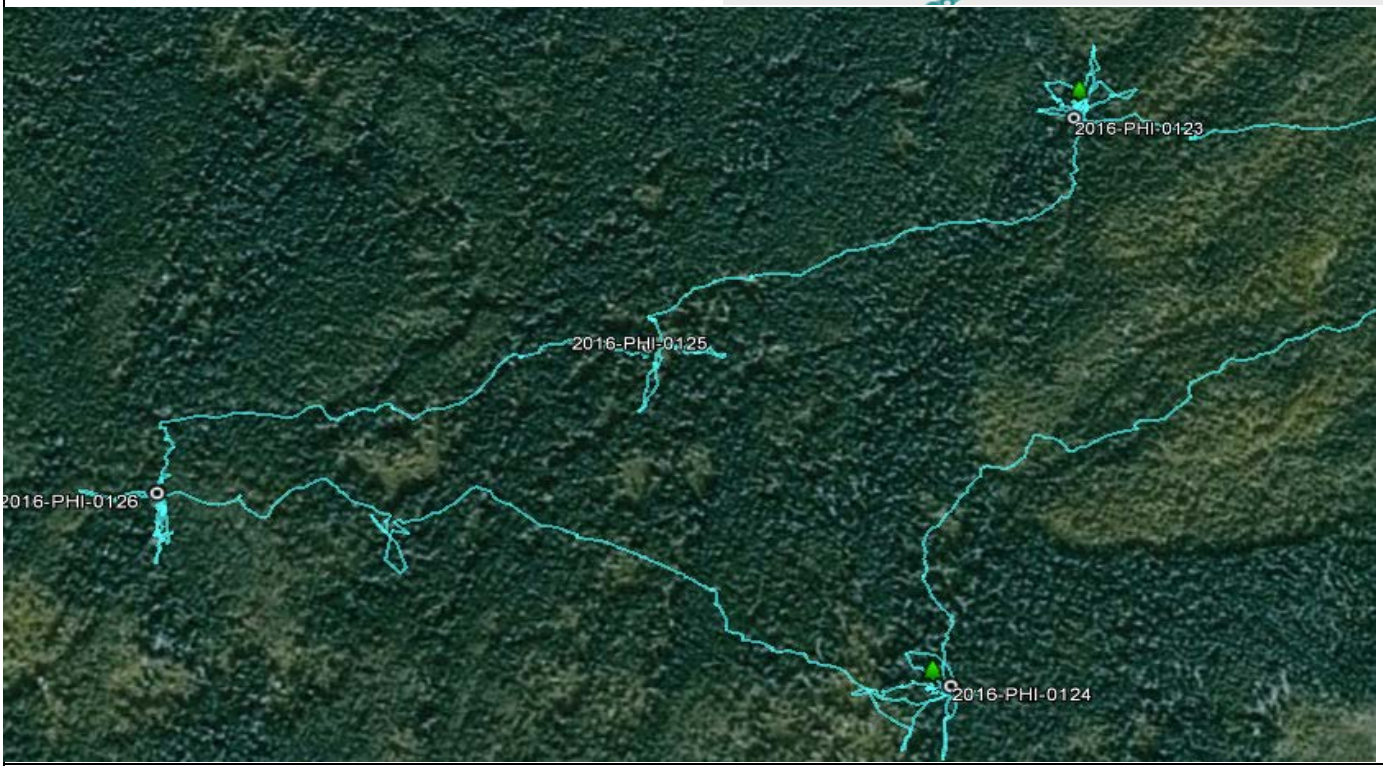
ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

All accessed Wets of mainline, from a 600m walk in to 2.4km. All boundary new fresh cutblocks and is just some spillover trees with minimal impact expected.

RECOMMENDATIONS

OPTION 1 **NO ACTION**

Although beetle will fly in 2017 in 0123 and 0124, very light single Code 3 attacked trees, Areas surrounded by fresh logging.



Summary

2016-PHI-0124 | 205

TABLE 5- Spruce Beetle Infestation Summary Sheet

OF NOTE- Results taken from a 100m Probe Line

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	0
25.1-30.0	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5.3
30.1-35.0	7.1	0	0.0	0.0	0.0	0.0	0.0	0.0	14.2
35.1-40.0	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0
40.1-45.0	11.6	34.8	0.0	0.0	0.0	0.0	0.0	0.0	11.6
45.1-50.0	13.8	13.8	0.0	0.0	13.8	0.0	0.0	0.0	0
50.1-55.0	16.2	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0
55.1-60.0	18.7	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0
60.1 +	25.3	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0
TOTALS	153.5	139.7	0.0	0	13.8	0.0	0.0	0	31.1

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	
	< 1 LOW Attack Density		< 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
2.00	< 3.9 SEVERE Attack Density	1.00	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2016 ATTACK	0.0%	0.0	SANITATION AND SALVAGE HARVEST PRIORITY RATING		
% 2015 ATTACK	9.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)
% 2014 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)
% HOST IN STAND	83.2%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING

498.4

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS: 1

ACCESS - From truck, walk 600m to 2.2km west to sites

SITE FEATURES - Site 0123 has Stream along North, cutblock to west. Site 0124 open stand with cutblock at 30m East. Site 0125 has cutblock at 50m to the north. Site 0126 has Heavy Balsam in stand.

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	0	0
25.1-30.0	5.3	1	0	0	0	0	0	0	1	0
30.1-35.0	7.1	0	0	0	0	0	0	0	2	0
35.1-40.0	9.4	1	0	0	0	0	0	0	0	0
40.1-45.0	11.6	3	0	0	0	0	0	0	1	0
45.1-50.0	13.8	1	0	0	1	0	0	0	0	0
50.1-55.0	16.2	2	0	0	0	0	0	0	0	0
55.1-60.0	18.7	1	0	0	0	0	0	0	0	0
60.1 +	25.3	1	0	0	0	0	0	0	0	0
TOTALS		10	0	0	1	0	0	0	4	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 Y r	Y r ____	Unattacked
2	4	5	2	0	19	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

Surrounded by cutblocks with 2 sites having single Code 3 attacked trees. Very isolated light scattered attack.

INCIDENCE AND SEVERITY OF THE INFESTATION

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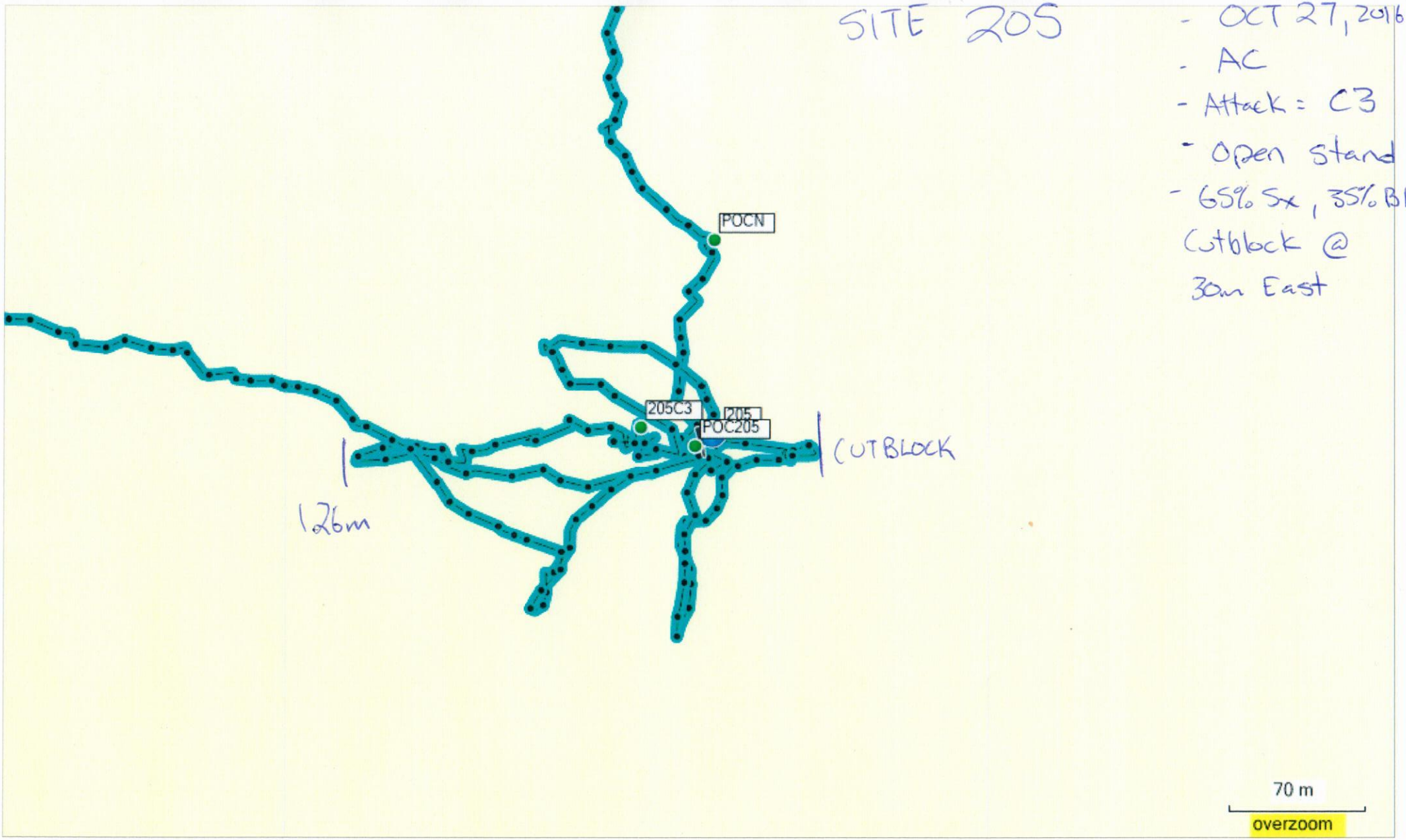
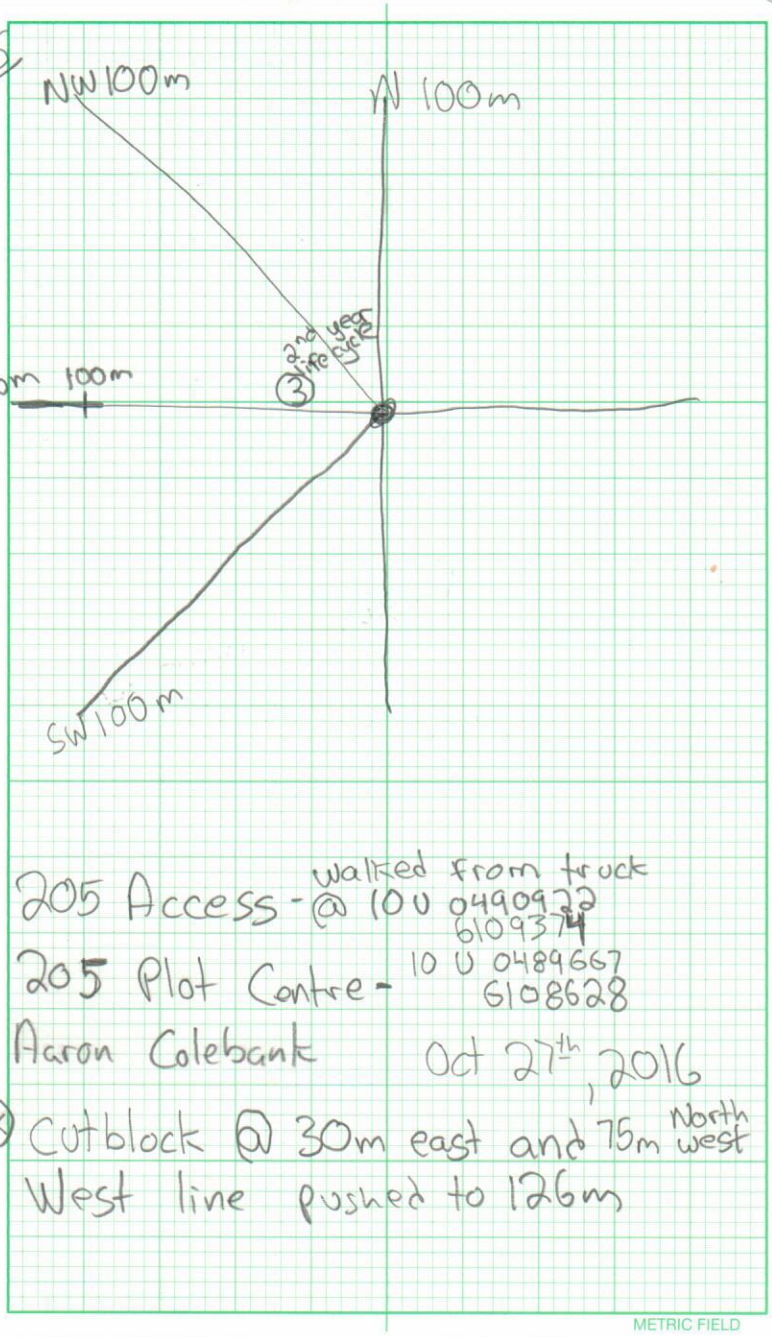
RISK OF BEETLE SPREAD

Minimal. Sites 0123 and 0124 has one current attacked tree amongst low volume of spruce. All sites are surrounded by fresher cutblocks.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

All accessed Wets of mainline, from a 600m walk in to 2.4km. All boundary new fresh cutblocks and is just some spillover trees with minimal impact expected.


SITE 205
- OCT 27, 2016
- AC
- Attack = C3
- Open stand
- 65% Sx, 35% Bl
Cutblock @
30m East
POCN
205C3
205
POC205
CUTBLOCK
126m
70 m
overzoom



205 Access - walked from truck @ 10 U 0490922 6109374

205 Plot Centre - 10 U 0489667 6108628

Aaron Colebank Oct 27th, 2016

⊛ Cutblock @ 30m east and 75m North west

West line pushed to 126m

R.D. PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF
METRIC FIELD

BRITISH COLUMBIA — BEETLE PROBE CARD

LOCATION	ELEVATION	LATITUDE	PAGE	OF
205 west line	805	10 0489667 610 8628		

BEARING	STRIP LINE NO	STRIP WIDTH	DISTANCE	BEETLE SPECIES
270°	West	10m	100m	[X] SB [ ] MPB [ ] DFB

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	MAIN	OTHER
12.5 - 17.4	2.0								BI	
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		10			1				4	

BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN	
						Attacked	Unattacked
North	••	••			NT		
South	•	••	••		XT		

COMMENTS
◎ Bark Sample
Code 3 is on 2 year life cycle

CREW NAMES	DATE Y	M	D
Aaron Colebank	2016	10	27

FS 1111A RPG 00/02 7530881049 (100/bdl)