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SPRUCE BARK BEETLE REPORT FH17DPG218

STAR PROBE# **2016-PHI-0148** 254

NUMBER OF CODE 1-4 ATTACK 2

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION

LIGHT ATTACK

Grouping of sites PHI-0147, 0148, 0149, and 0150. All sites south of road 500-800m and have minimal attack. Sites 0148 and 0150 have light attack, site 0147 has old attack and 0149 had no signs of attack.. Is some fresh logging in area and sites are in areas of heavy blowdown from dead pine.

ACCESS

From truck, walk 500-800 m to sites

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

PHI0150 on edge of cutblock, sites 0147,0148 and 0149 very wet with many little creks running through them. Lots of dead pine with minimal spruce in sites.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Light priority rating in Site 0150 (edge of cutblock) and 0148, boith with light attack. Some older attack in wet draw 0147, no current attack.

INCIDENCE AND SEVERITY OF ATTACK

Light severity and isolated attack around cutblock. Sites 0148 and 0150 low priority rating and light attack densities.

RISK OF BEETLE SPREAD and SURROUNDING SITES

Minimal, there are cutblocks surrounding. All sites wet, with minimal spruce component mixed with dead pine. No real attack in area.

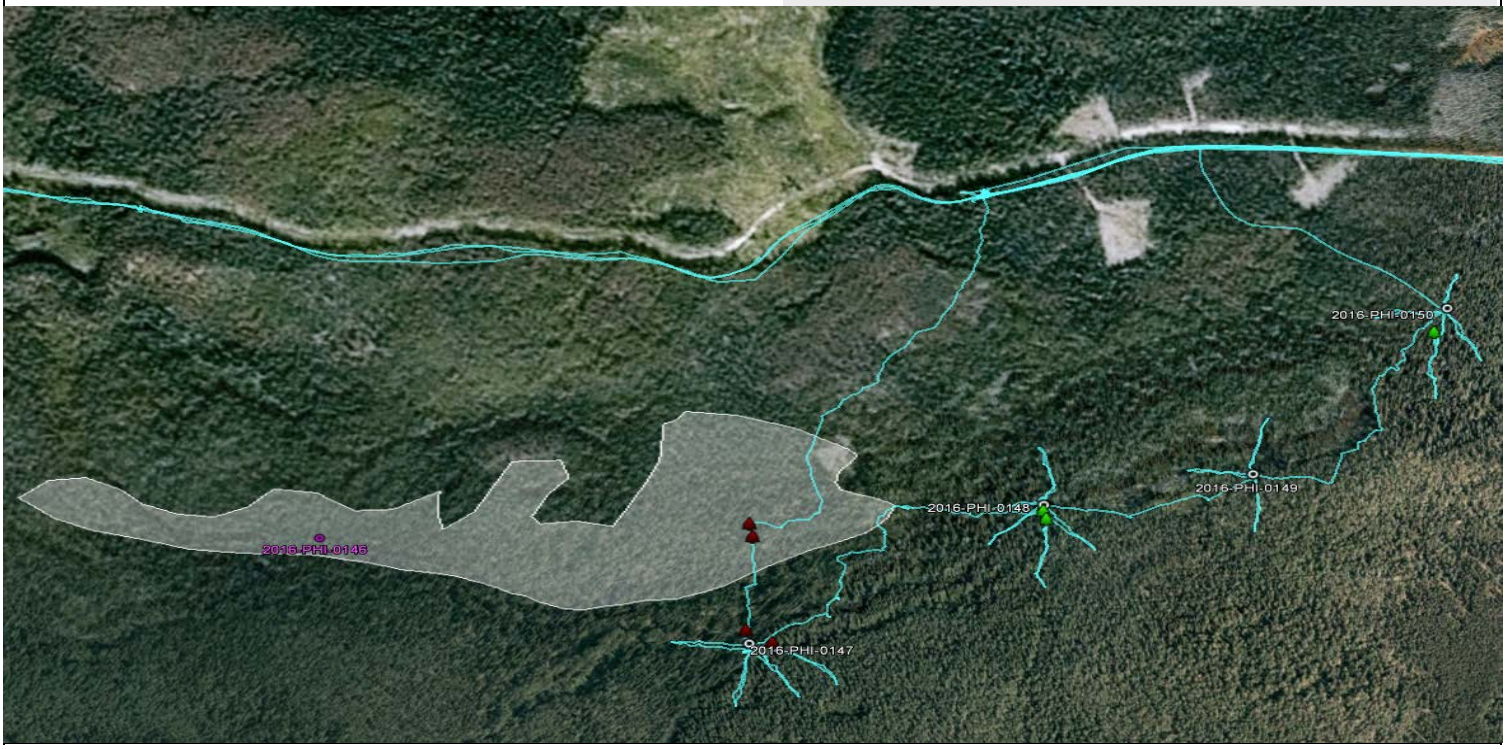
ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

All accessed south of mainline 600-800m with very wet sites. Site 0150 edge of cutblock.

RECOMMENDATIONS

OPTION 1 **NO ACTION**

Sites 0148 and 0150 light attack, minimal risk of spread. All other sites no action required as well, no current attack found.



Summary

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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	37.1
30.1-35.0	7.1	21.3	0.0	0.0	0.0	0.0	0.0	0.0	28.4
35.1-40.0	9.4	18.8	9.4	0.0	0.0	0.0	0.0	0.0	84.6
40.1-45.0	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	34.8
45.1-50.0	13.8	27.6	0.0	0.0	13.8	0.0	0.0	0.0	27.6
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	107.8	84.6	9.4	0	13.8	0.0	0.0	0	212.5

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
2.50	< 3.9 SEVERE Attack Density	7.00	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2016 ATTACK	8.7%	8.7	SANITATION AND SALVAGE HARVEST PRIORITY RATING		
% 2015 ATTACK	12.8%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)
% 2014 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)
% HOST IN STAND	33.7%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING

580.7

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS: 1

ACCESS - From truck, walk 500-800 m to sites

SITE FEATURES - PHI0150 on edge of cutblock, sites 0147,0148 and 0149 very wet with many little creks running through them. Lots of dead pine with minimal spruce in sites.

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	PL
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	4	3
30.1-35.0	7.1	3	0	0	0	0	0	0	1	3
35.1-40.0	9.4	2	1	0	0	0	0	0	3	6
40.1-45.0	11.6	1	0	0	0	0	0	0	1	2
45.1-50.0	13.8	2	0	0	1	0	0	0	2	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		9	1	0	1	0	0	0	11	14

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	5	9	14	0	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

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INCIDENCE AND SEVERITY OF THE INFESTATION

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RISK OF BEETLE SPREAD

Minimal, there are cutblocks surrounding. All sites wet, with minimal spruce component mixed with dead pine. No real attack in area.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

All accessed south of mainline 600-800m with very wet sites. Site 0150 edge of cutblock.

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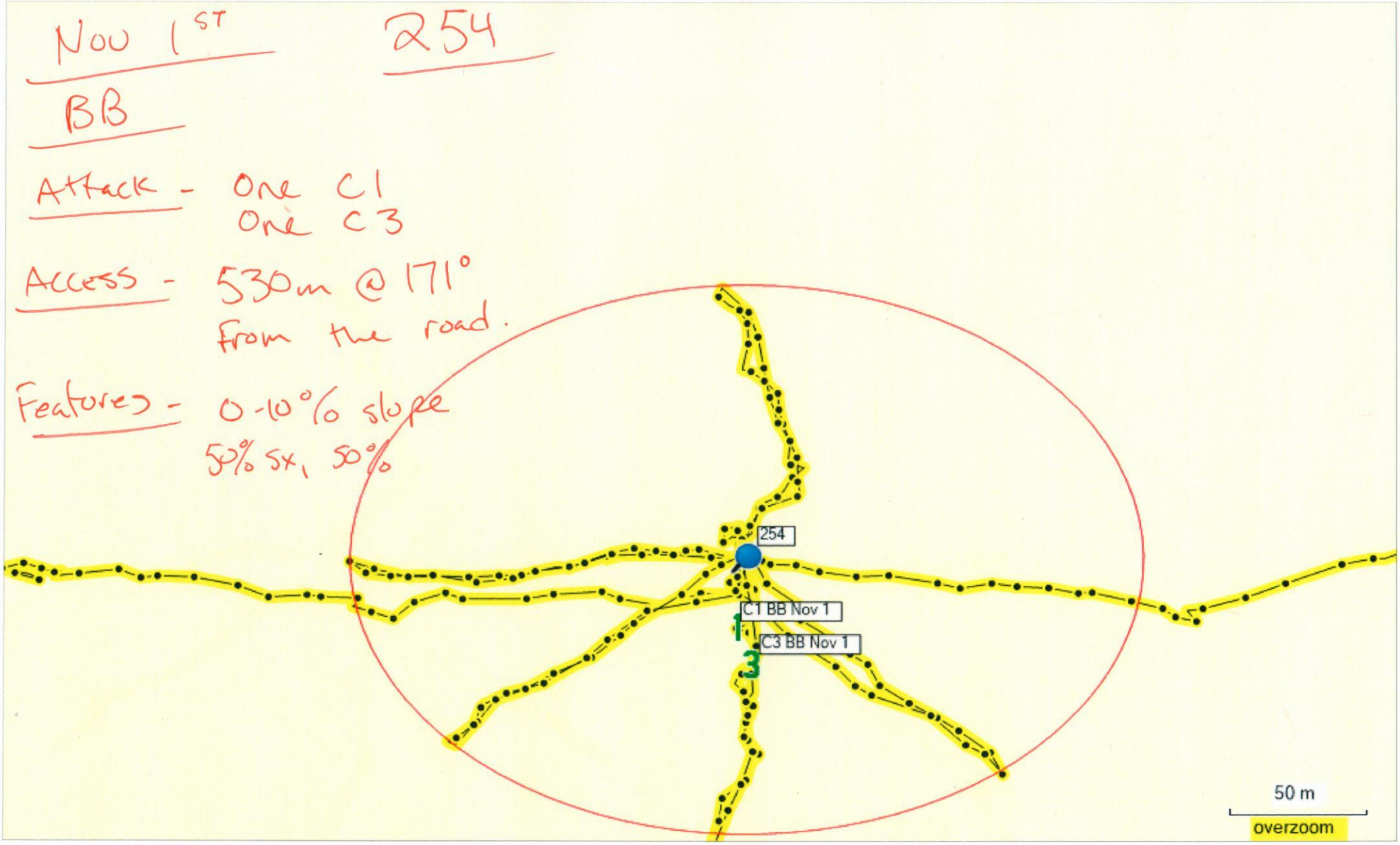
BB

Attack - One C1
One C3

Access - 530m @ 171°
from the road.

Features - 0-10% slope
50% Sx, 50%



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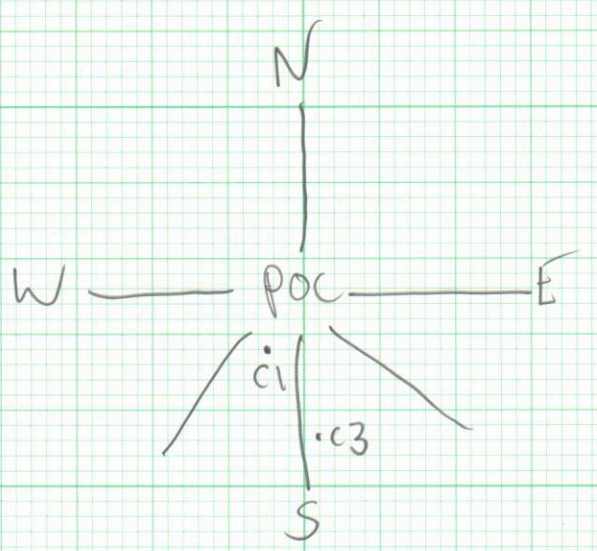

areas of regen + dead pine
heavy blow down
swampy areas

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

METRIC FIELD

SPRUCE BEETLE PROBE CARD

LOCATION		PAGE	OF
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BEARING	**DISTANCE**	**STRIP WIDTH**	
180°	100m	10 m	

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	Balsam
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		9	1		1				11

BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN		
						Attacked		Unattacked
N	3	4	6					
S	3	5	8					

COMMENTS

⊙ = BS

CREW NAMES	DATE
Blake B	Y 16 M 11 D 1

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