SENECA ENTERPRISES LTD.
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SPRUCE BARK BEETLE REPORT
FH17DPG218

STAR PROBE# **2016-MIS-0090** 556

NUMBER OF CODE 1-4 ATTACK 2

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION

LIGHT ATTACK

Steep site, creek runs through west of site.. Areas of thick aspen outside of site. Sanitation priority rating is low due to lighter attack and 1 code 2 represented in probe. 2 code 1 attacked trees in site, small risk of beetle spread, patchy spruce outside of site

ACCESS

Lots of Blowdown, site alongside river. From truck walk 997m at 298 degrees

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

Site alongside creek. Steep slope, Spruce 70%, Balsam 30%

SIZE, BOUNDARY and PATTERN OF INFESTATION

2 code 1 attacked trees found in site, 2 older attacked trees as well. Attack found in creek draw where spruce present, outside drainage less spruce and attack

INCIDENCE AND SEVERITY OF ATTACK

Light attack with signs showing attacked trees on both a 1 and 2 year cycle.

RISK OF BEETLE SPREAD and SURROUNDING SITES

Light attack and surroundewd by cutblock to south. Moderate attack densities, isolated site.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

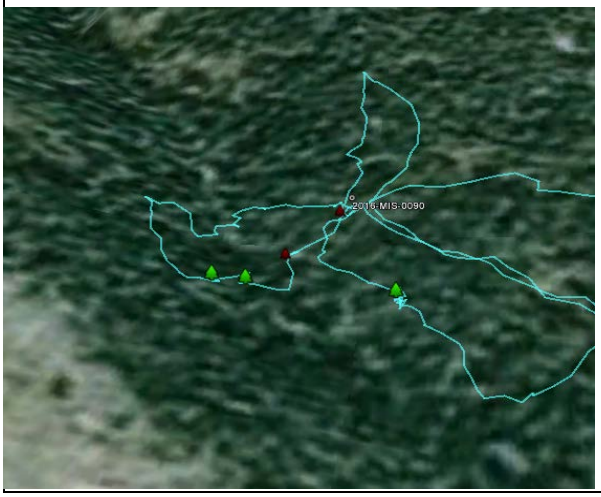
From truck, 1km walk to site, adjacent to cutblock with creek runnning through west

RECOMMENDATIONS

OPTION 1 **NO ACTION**

Light attack, lowerrisk of spread and low sanition priority rating. Access poor, Schedule to monitor in 2017.

OPTION 2 **MONITOR**



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	10.6	0.0	0.0	0.0	0.0	0.0	0.0	10.6
30.1-35.0	7.1	21.3	0.0	0.0	0.0	0.0	0.0	0.0	21.3
35.1-40.0	9.4	28.2	0.0	4.7	0.0	0.0	0.0	0.0	9.4
40.1-45.0	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	11.6
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	76.4	71.7	0.0	4.7	0.0	0.0	0.0	0	52.9

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE

< 1 LOW Attack Density
1.0- 1.9 MOD Attack Density
2.0 - 3.9 HIGH Attack Density
< 3.9 SEVERE Attack Density

2.50

MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE

< 4.9 LOW Mean Larval Density
5.0 - 14.9 MOD Mean Larval Density
15-24.9 HIGH Mean Larval Density
>24.9 EXTREME Mean Larval Density

1.00

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2016 ATTACK	6.2%	6.2	SANITATION AND SALVAGE HARVEST PRIORITY RATING		
% 2015 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)
% 2014 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)
% HOST IN STAND	59.1%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING

363.5

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS: 1

ACCESS - Lots of Blowdown, site alongside river. From truck walk 997m at 298 degrees

SITE FEATURES - Site alongside creek. Steep slope, Spruce 70%, Balsam 30%

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			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	2	0	0	0	0	0	0	2	0
30.1-35.0	7.1	3	0	0	0	0	0	0	3	0
35.1-40.0	9.4	3	0	1	0	0	0	0	1	0
40.1-45.0	11.6	1	0	0	0	0	0	0	1	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		9	0	1	0	0	0	0	7	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	5	2	2	0	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

2 code 1 attacked trees found in site, 2 older attacked trees as well. Attack found in creek draw where spruce present, outside drainage less spruce and attack

INCIDENCE AND SEVERITY OF THE INFESTATION

Light attack with signs showing attacked trees on both a 1 and 2 year cycle.

RISK OF BEETLE SPREAD

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ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

From truck, 1km walk to site, adjacent to cutblock with creek runnning through west

556

SPRUCE BEE
PROBE CAR

LOCATION		PAGE	OF
0512346	6114057	1	1
BEARING	**DISTANCE**	**STRIP WIDTH**	
SE	100 m	10m	

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIE
			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		9		1					7

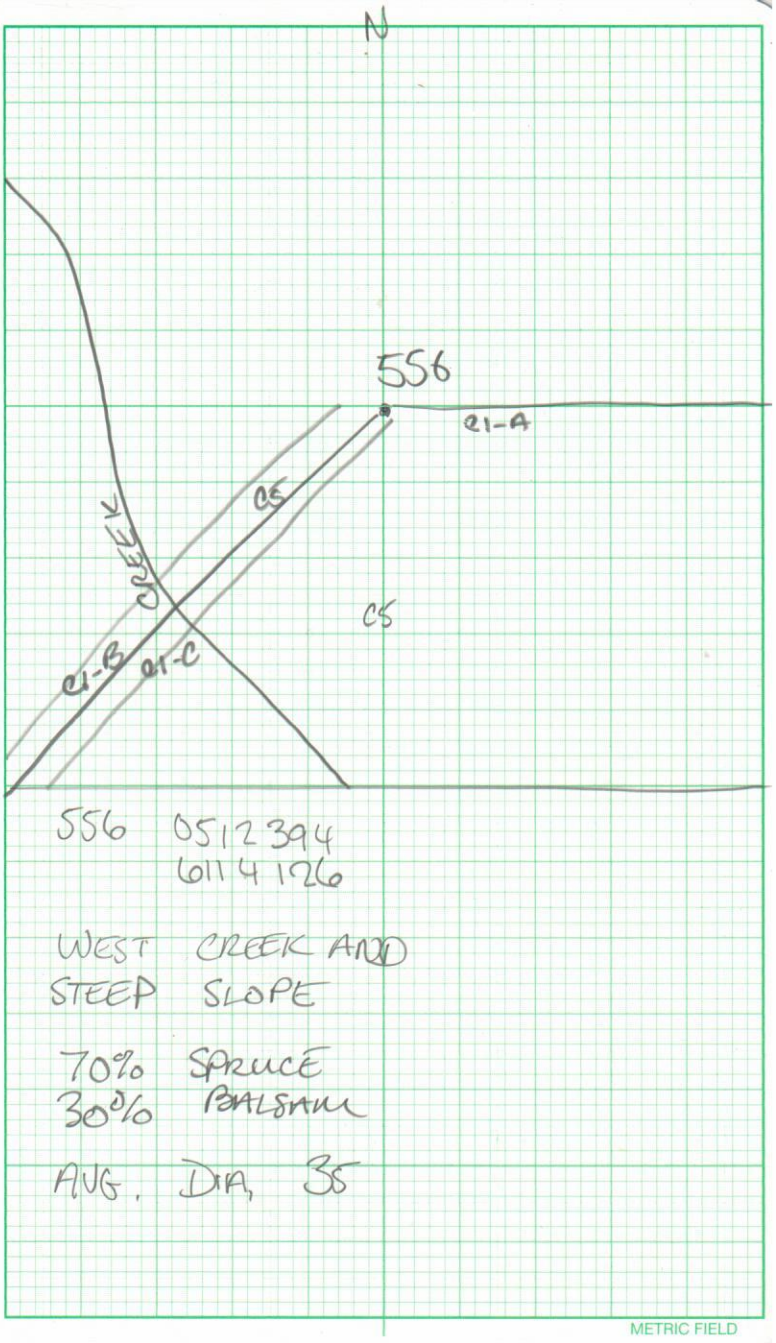
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOW	
						Attacked	Ur
N	5	2	2				
S	∅	∅	∅				

COMMENTS ⊙ BS
60% Sp, 40% balsam
MAKE AMERICA GREAT AGAI

CREW NAMES	DATE Y	M
JD, P. Peltier	16	11

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

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



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6114126

WEST CREEK AND
STEEP SLOPE

70% SPRUCE
30% BALSAM

AVG. DIA, 35

METRIC FIELD