

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH17DPG218**STAR PROBE# **2016-MIS-0058****319**

NUMBER OF CODE 1-4 ATTACK

10PROBE LINE **YES****SUMMARY OF CURRENT INFESTATION****MODERATE ATTACK**

Three grouped sites all with similar results. (MIS0058- 10 C1, 2 C5, MIS-0059- 6 C1, 5 C-5, MIS-060- 13 C1, 7 C5) All combined, from 3 probe lines sites have a moderate Sanitation priority rating with site MIS-0058 carrying a heavy rating. Site MIS0058 also had fresh silviculture flagging in site. All site have good access and are surrounded by plantations.

ACCESS

From truck, walk 200-300m into sites. All flat ground, heavy blowdown

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

Large DBH Spruce, Heavy blowdown, Flat ground, some areas wet. Plantations surround the sites. Overall 60% Spruce, 40% Balsam

SIZE, BOUNDARY and PATTERN OF INFESTATION

Moderate attack found with MIS0058- 10 C1, 2 C5, MIS-0059- 6 C1, 5 C-5, MIS-060- 13 C1, 7 C5 attacked trees. The sites have large DBH spruce trees and are fairly concentrated within sites on edges of plantations.

INCIDENCE AND SEVERITY OF ATTACK

Moderate attack densities and overall moderate sanitation priority rating between the three sites. (Site MIS-0058 Heavy rating, 0059,0060 Light Ratings)

RISK OF BEETLE SPREAD and SURROUNDING SITES

These three sites have good access with moderate attack. Attack can move east and northward and trees are on a 1 and 2 year cycle with large DBH trees in area. Moderate risk of beetle spread from these sites and only identified sites in area

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

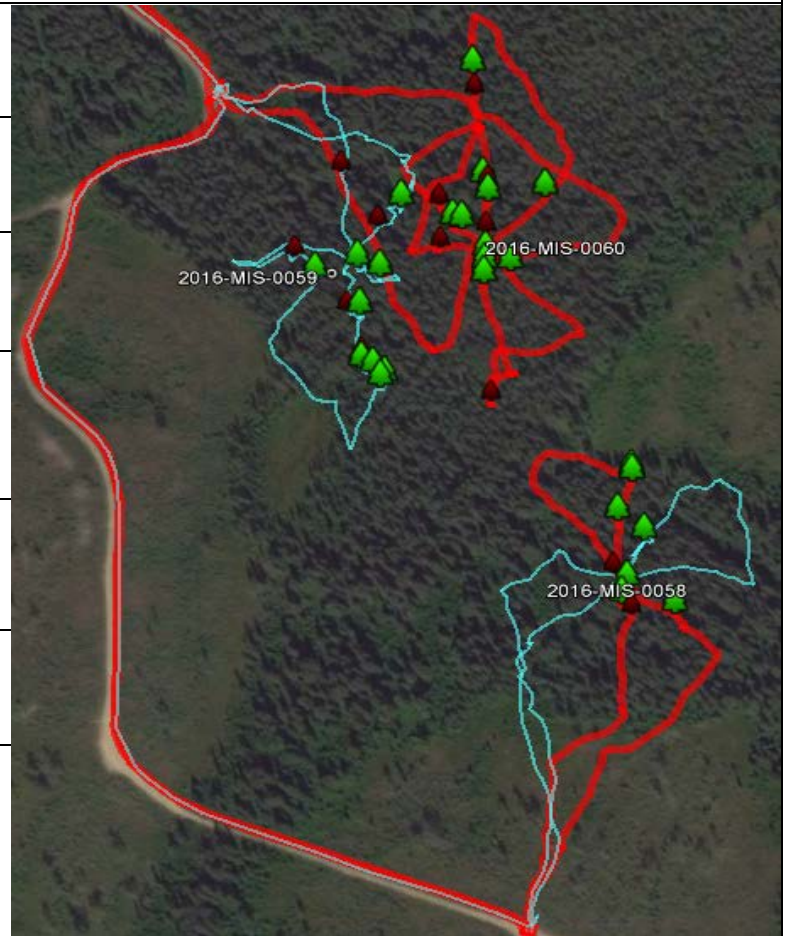
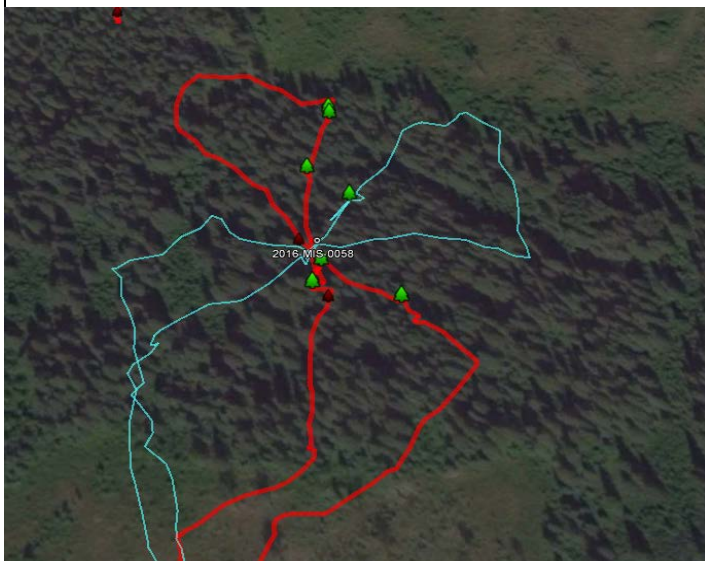
Edge of plantations, Site MIS-0058 has creek running through it, all flat, some wet areas.

RECOMMENDATIONS**OPTION 1****TRAP TREES**

As three sites with good access grouped together, it is best to treat the three together. A few trap tree trails could be utilized to capture any additional attack. As moderate attack density, may be more efficient to fall and burn sites however some large DBH Trees would make it wasteful. Much of the attack is on a 2 year cycle, although some of the beetle in area will fly in 2017.

OPTION 2**HARVEST**

Although sanitation rating Moderate, good access sites that could be harvested in fall/ winter 2017.



<p>SIZE, BOUNDARY AND PATTERN OF THE INFESTATION</p> <p>Moderate attack found with MIS0058- 10 C1, 2 C5, MIS-0059- 6 C1, 5 C-5, MIS-060- 13 C1, 7 C5 attacked trees. The sites have large DBH spruce trees and are fairly concentrated within sites on edges of plantations.</p> <p>INCIDENCE AND SEVERITY OF THE INFESTATION</p> <p>Moderate attack densities and overall moderate sanitation priority ratinf between the three sites. (Site MIS-0058 Heavy rating, 0059,0060 Light Ratings)</p> <p>RISK OF BEETLE SPREAD</p> <p>These three sites have good access with moderate attack. Attack can move east and northward and trees are on a 1 and 2 year cycle with large DBH trees in area. Moderate risk of beetle spread from these sites and only identified sites in area</p> <p>ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES</p> <p>Edge os plantations, SiteMIS-0058 has creek running through it, all flat, some wet areas.</p>

319

NOV 5TH

JK, DD

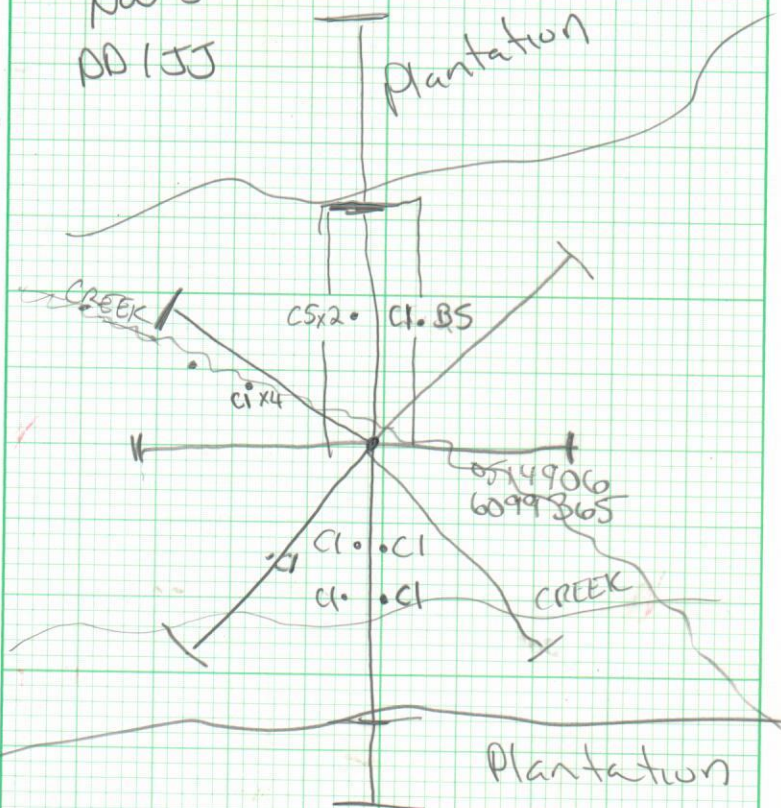


Attack - C1 = 10
C5 = 2

Access - From truck, walk 300m @ 20°
through plantation.

features - Large 5x tree's in site.
creek runs through site
NW to SE.

319
NW 5TH
AD 155



- Silviculture flag in site
- Plat ground
- PROBE IS North line

METRIC FIELD



BRITISH
COLUMBIA



BEETLE PROBE CARD

LOCATION 3A			ELEVATION 77		LATITUDE		PAGE		OF	
BEARING 0°	STRIP LINE NO N	STRIP WIDTH 10	DISTANCE 100		BEETLE SPECIES ☒ 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									
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		183				4		10		
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	2	3	/	/					
S	4	1	4	/	/					
COMMENTS BS - ① - large DBH Sx ? B1										
CREW NAMES JK / DD						DATE Y M D 16 11 5				