

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH17DPG218**STAR PROBE# **2016-MIS-0047****308**

NUMBER OF CODE 1-4 ATTACK

3PROBE LINE **YES****SUMMARY OF CURRENT INFESTATION****LIGHT ATTACK**

Five grouped sites all with similar results. Light scattered single attack in MIS047 (3 code 3 attacked trees), old single attack in MIS0039, no attack in MIS0033, 0042 and 0045. Small DBH spruce stands with minimal beetle spread anticipated.

ACCESS

From truck, walk 300m to 1.1 km to access sites (site 0045 has a river through it, site 0047 in a ravine)

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

All of the sites in have steep slopes 0-50%, and with varied terrain. All sites had very small Spruce (60%) Balsam (40%) mix with average 20cm DBH.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Light scattered attack in site MIS0047 with a light Sanitation rating. Site had code 3 trees, other sites had no current attack, all sites smaller DBH spruce.

INCIDENCE AND SEVERITY OF ATTACK

While 3 code 3 attacked trees found in MIS0047, light sanitation rating and lower attack and larval densities. Other sites had no current attack.

RISK OF BEETLE SPREAD and SURROUNDING SITES

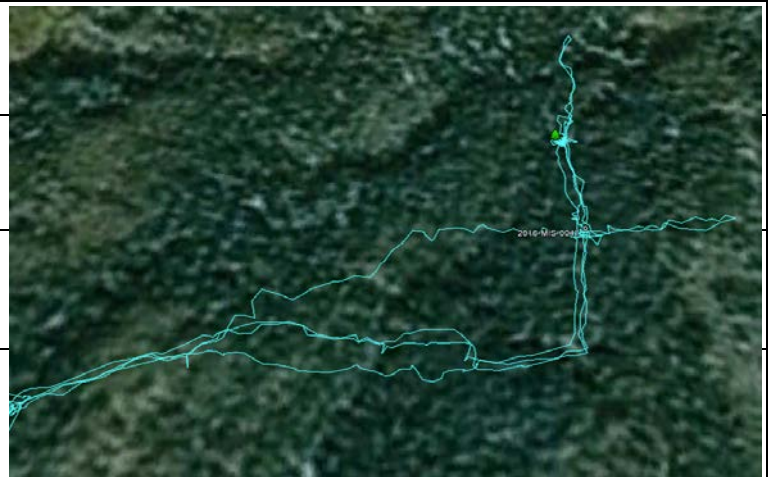
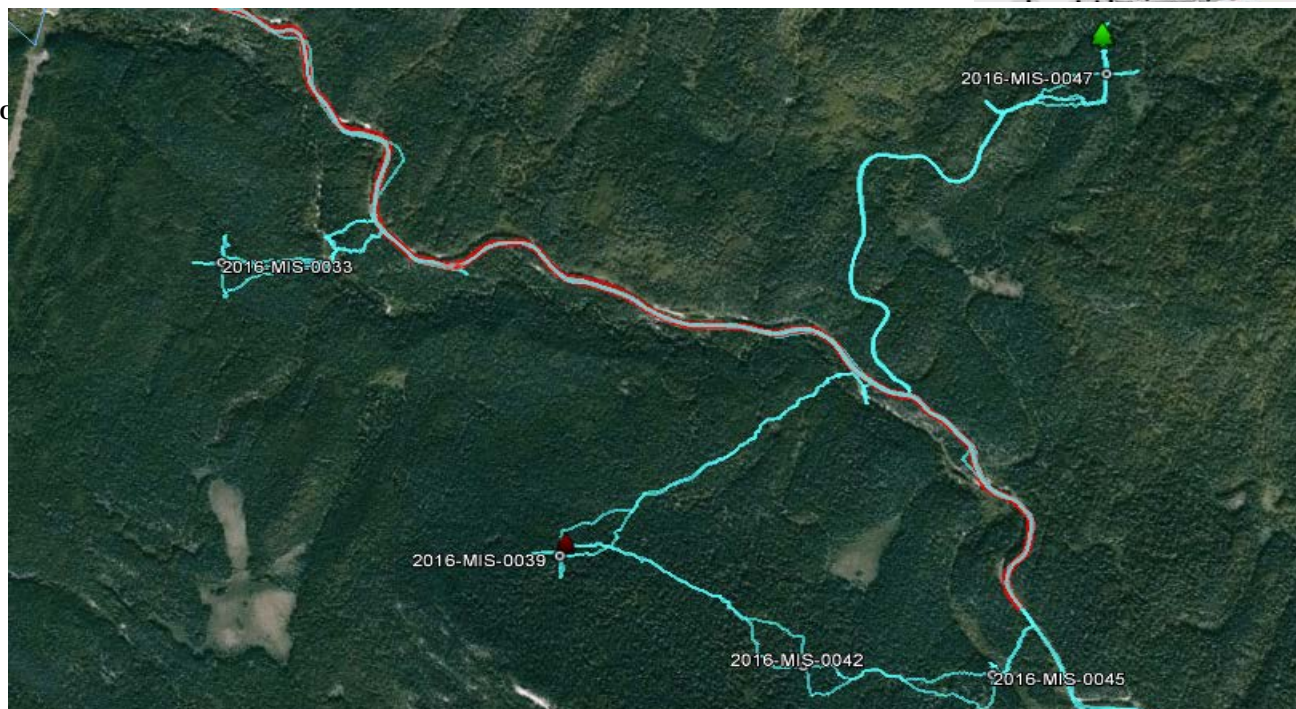
Minimal, site that had code 3 attack has light sanitation rating but thick stand with low DBH spruce. May move slightly but minimal impact on area.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

From truck, walk 300m to 1.1 km to access sites (site 0045 has a river through it, site 0047 in a ravine) All of the sites in have steep slopes 0-50%, and with varied terrain.

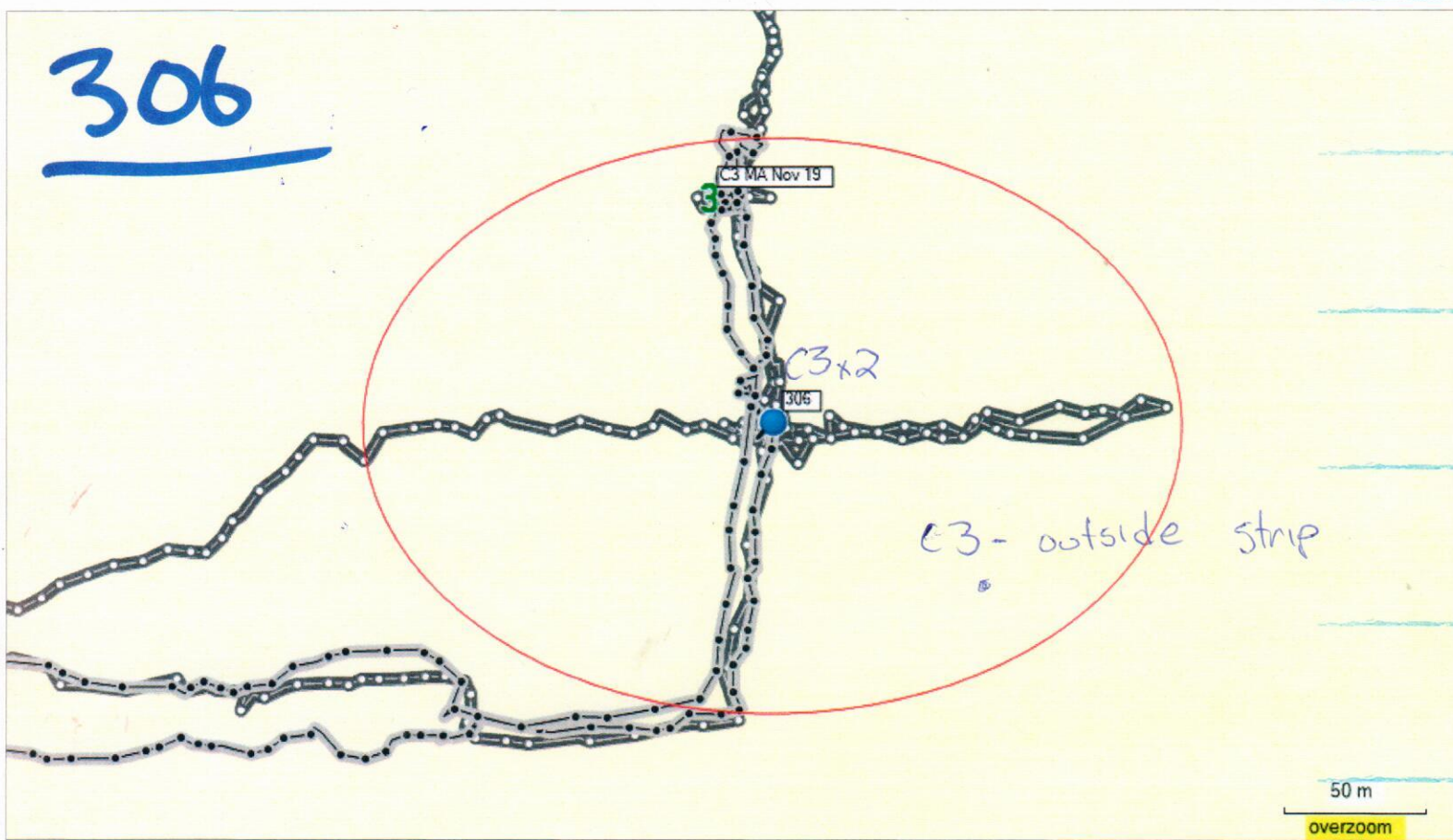
RECOMMENDATIONS**OPTION 1****NO ACTION**

Light scattered single attack in MIS047, old single attack in MIS0039, no attack in MIS0033, 9942 and 0045. Access poor with creeks and ravines, no action with light sanitation rating.



<p>SIZE, BOUNDARY AND PATTERN OF THE INFESTATION</p> <p>Light scattered attack in site MIS0047 with a light Sanitation rating. Site had code 3 trees, other sites had no current attack, all sites smaller DBH spruce.</p> <p>INCIDENCE AND SEVERITY OF THE INFESTATION</p> <p>While 3 code 3 attacked trees found in MIS0047, light sanitation rating and lower attack and larval densities. Other sites had no current attack.</p> <p>RISK OF BEETLE SPREAD</p> <p>Minimal, site that had code 3 attack has light sanitation rating but thick stand with low DBH spruce. May move slightly but minimal impact on area.</p> <p>ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES</p> <p>From truck, walk 300m to 1.1 km to access sites (site 0045 has a river through it, site 0047 in a ravine) All of the sites in have steep slopes 0-50%, and with varied terrain.</p>
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Attack - C3 = 3

Access - From quad, walk 360m @ 70°

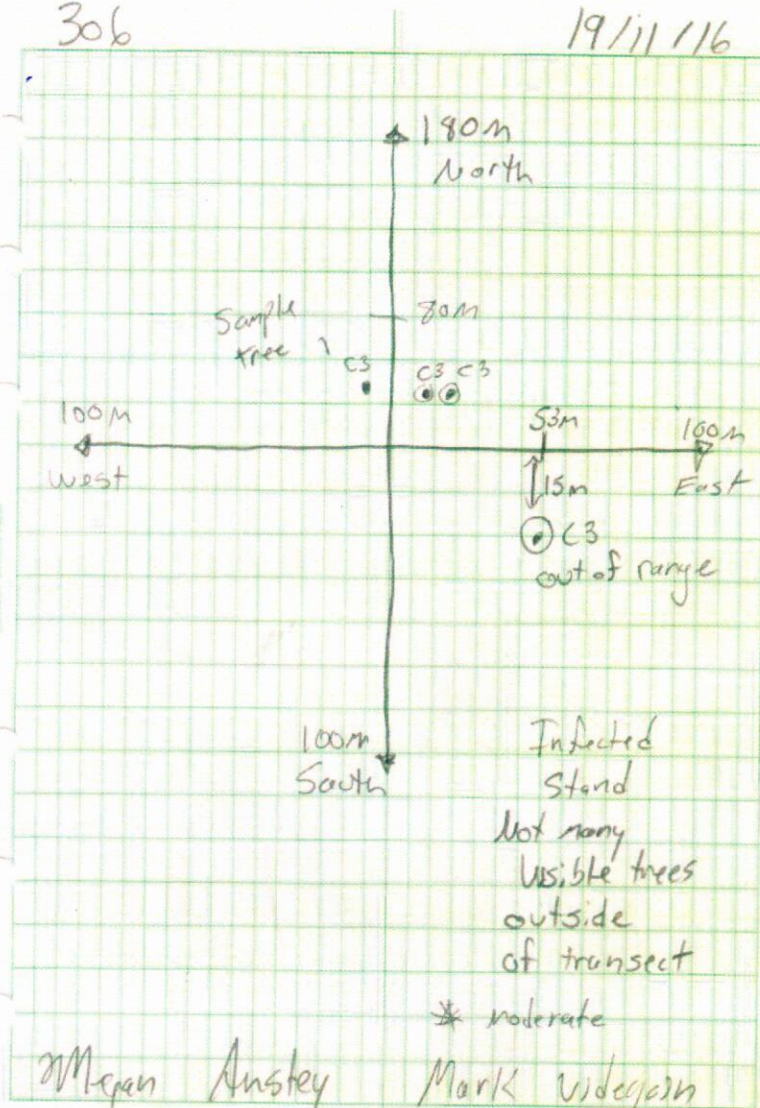
Features - Site located in ravine.

- Bl 30%
- Sx 70%

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19/11/16

100m
West
East
100m
South
North



FIELD

SPRUCE BEETLE PROBE CARD

LOCATION 206		PAGE OF							
BEARING 360 N		DISTANCE 100m	STRIP WIDTH 10m						
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								
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		25	1					13	
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. GALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
N	4	3	5						
5	3	2			4				
COMMENTS @ sample tree									
CREW NAMES Mark Videgain Megan Anstey						DATE 15.11.19			