



SENECA ENTERPRISES LTD.

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SPRUCE BARK BEETLE REPORT FH17DPG218

STAR PROBE# **2016-MIS-0041**

300

NUMBER OF CODE 1-4 ATTACK

9

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION

HEAVY ATTACK

This site is in a grouping where it is the only site having attack. The site is in a drainage, with slopes rising 30% to north and south. 1 probe line where sample tree had high attack density and low larval density. Trees in site both Code 1 and Code 3 and will have flight in 2017. Site has large DBH trees and is 70% Spruce. Other sites had no current attack. High risk of spread, currently concentrated within center of site.

ACCESS

From truck, walk 2.3km at 270 degrees, site located in bottom of a drainage

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

Site located in a drainage, long walk in. Large DBH spruce.

SIZE, BOUNDARY and PATTERN OF INFESTATION

As other sites in area showing no signs of attack, this site is centered in the bottom of a drainage where there are large diameter spruce.

INCIDENCE AND SEVERITY OF ATTACK

1 probe line has high attack density as trees are heavily infested with Beetle. They are large diameter and sanitation rating heavy.

RISK OF BEETLE SPREAD and SURROUNDING SITES

With high attack densities, beetle will move through drainage to other large DBH spruce and has a high risk of spread. Seems to be concentrated around this site as walked drainages between other sites with no beetle spotted. This is the largest spruce in area.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

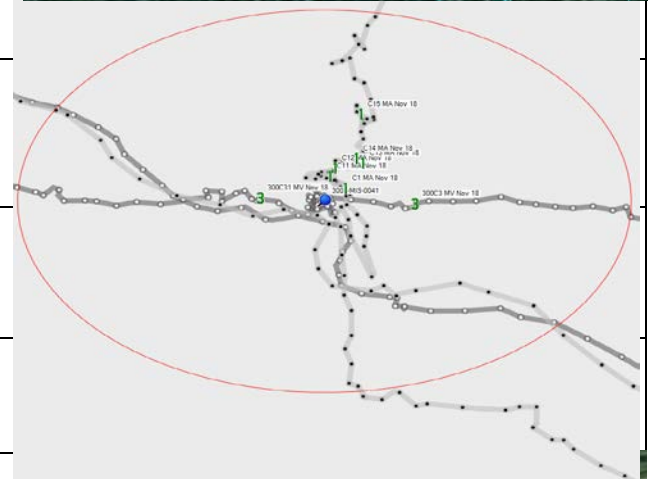
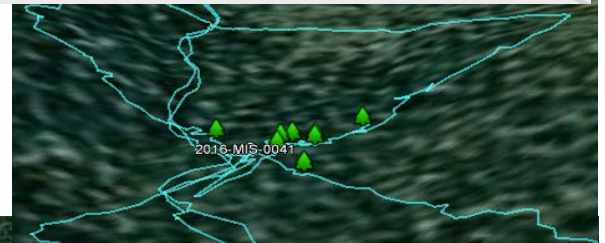
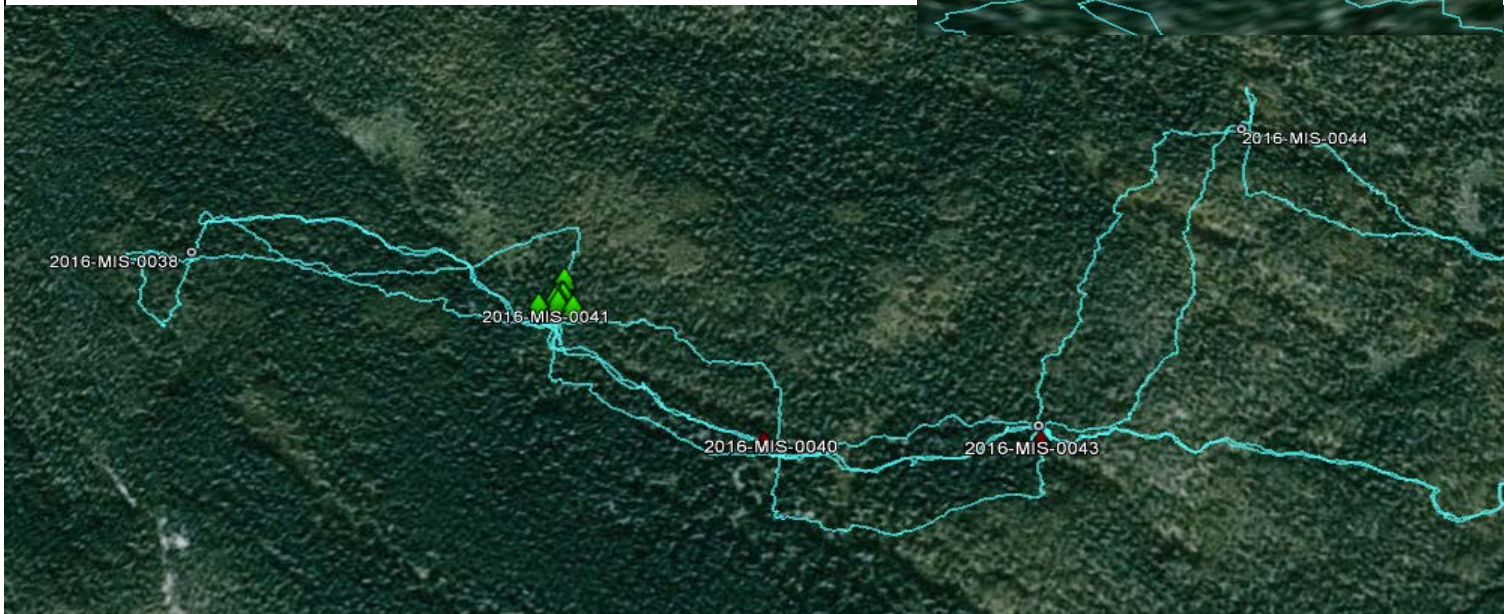
Difficult access as crew walked in 2.3km from truck. Site where infected trees are located is in the bottom of a drainage.

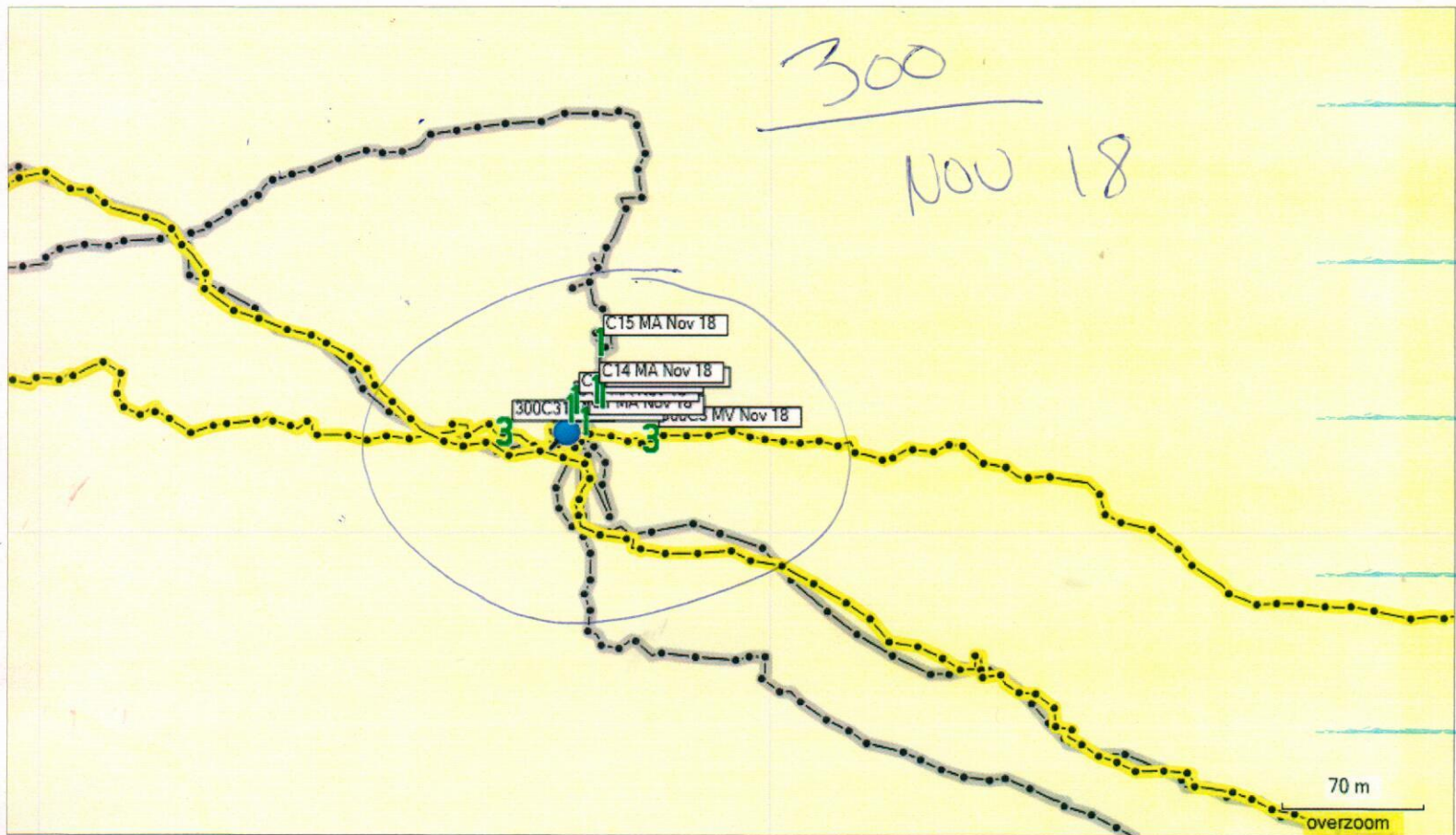
RECOMMENDATIONS

OPTION 1

TRAP TREES/ HARVEST

Heavy sanitation rating recommends cruising/logging. There are large DBH spruce in site but logistically may be difficult for a small amount. There doesn't appear to be other infected trees in area, may be some isolated in large DBH spruce in area. As trap tree trails carry the same logistics, could hand fall trap tree trails in and around plot center to hold infestation until further actions become clear (perhaps Fall and Burn Code 3 attack as well). Could always burn at a later date and/or a fall and burn treatment on Code 3 attack at same time.





Attack - C1 = 6
C3 = 2

Access - From truck, walk 2.3km
@ 270°.

Features - Site located in Valley bottom
Slopes rise to North & South
0-30%
- 70% Sx
- 30% BI

SPRUCE BEETLE PROBE CARD

LOCATION 300		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	13.6	• • •							
50.1 - 55.0	16.2	• • • •							
55.1 - 60.0	18.7	• • • •							
60.1 +	25.3	• • • •							
TOTALS		21	6						
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		3				
S	2				7				
COMMENTS Sample tree bad satellite reception Very heavy woodpecker damage on sample bark									
CREW NAMES Mark Vidégain Megan Anstey						DATE 16.11.18			