

**SENECA ENTERPRISES LTD.**

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SPRUCE BARK BEETLE REPORT

FH17DPG218

STAR PROBE# **2016-PHI-0143**

249

NUMBER OF CODE 1-4 ATTACK **4 in site 20+ outside site**PROBE LINE **YES****SUMMARY OF CURRENT INFESTATION****MODERATE/ HEAVY ATTACK**

Site is isolated along boundary of Phillips area and has moderate to heavy attack. Site itself had 3 code 1's and one code 3 attack and is represented by one probe line. Probe line has light sanitation rating and moderate mean larval density. Most of the attack is to the south of the site where an additional 20+ attacked trees were found. This area is mostly on a first year of a two year cycle and while some beetle will fly in 2017, need to determine full extent in area of attack.

ACCESS

From quad, walk 440m North. Area is north of old cutblock.

SITE FEATURES

(Topography, Terrain, Timber Types, Age)

Slope 0-15% rising to the north. Edge of cutblock where attack starts.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Site had mostly code 1 attacked trees and has a light sanitation rating. Outside of site, heavy attack, with many code 1's. Attack seems to end at site and is mainly south between site and cutblock.

INCIDENCE AND SEVERITY OF ATTACK

Has a moderate mean larval density and area to the south is more heavily attacked.

RISK OF BEETLE SPREAD and SURROUNDING SITES

High. Moderate attack density and larval densities in site and is hit hard south of site.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

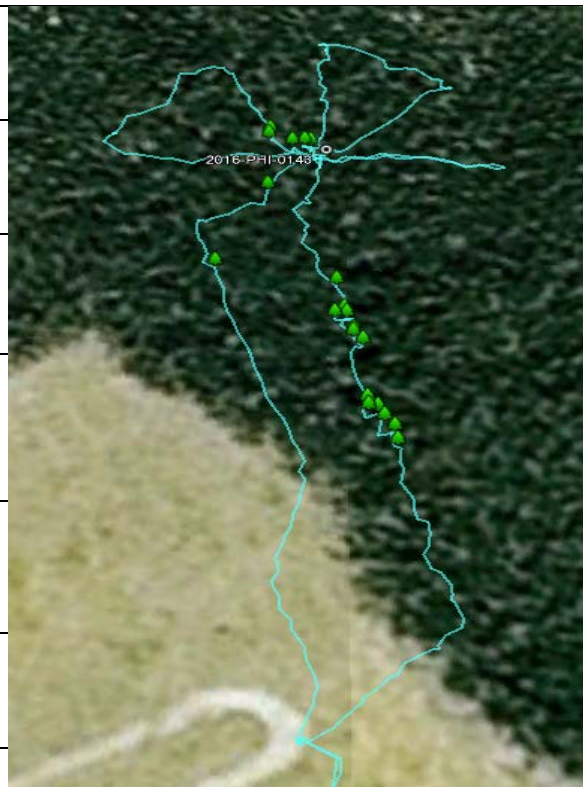
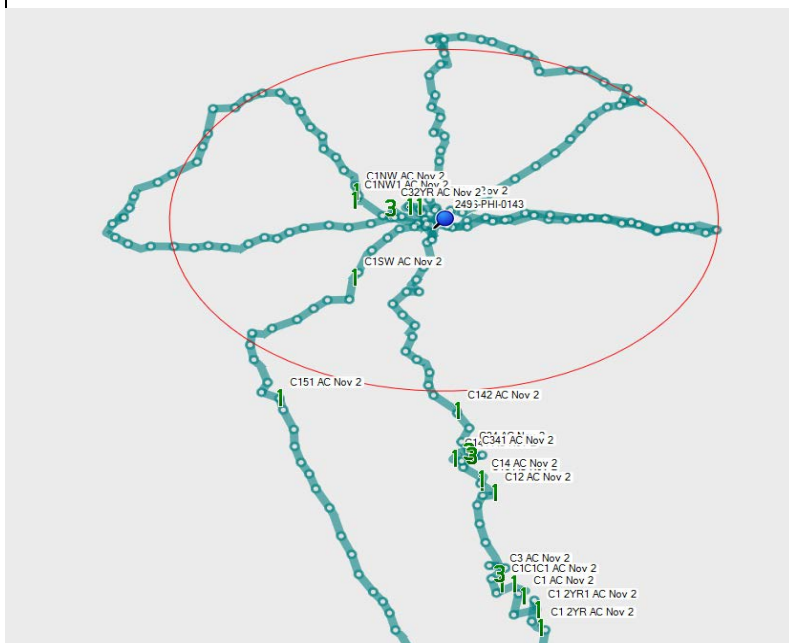
From ATV, through old cutblock, walkd 600m north to site. Attack begins outside of cutblock and continues north.

RECOMMENDATIONS**OPTION 1****CRUISING LOGGING.**

Even though light sanitation rating, area is hit hard enough where need to schedule a larger probe although already know area is hit hard between cutblock and site. Most of the trees are Code1's on a 2 year cycle so need to schedule treatment, (Harvest Trap Trees for fall 2017) Don't think a hybrid probe would be needed as greater than 25 attacked trees in smaller area and more detailed information (ieCruise) would be more beneficial.

OPTION 2**TRAP TREES**

Trap trees could be an option to hold infestation although not critical immediately as 80+% on a 2 year life cycle. If harvesting delayed, could schedule trap tree program for fall 2017.



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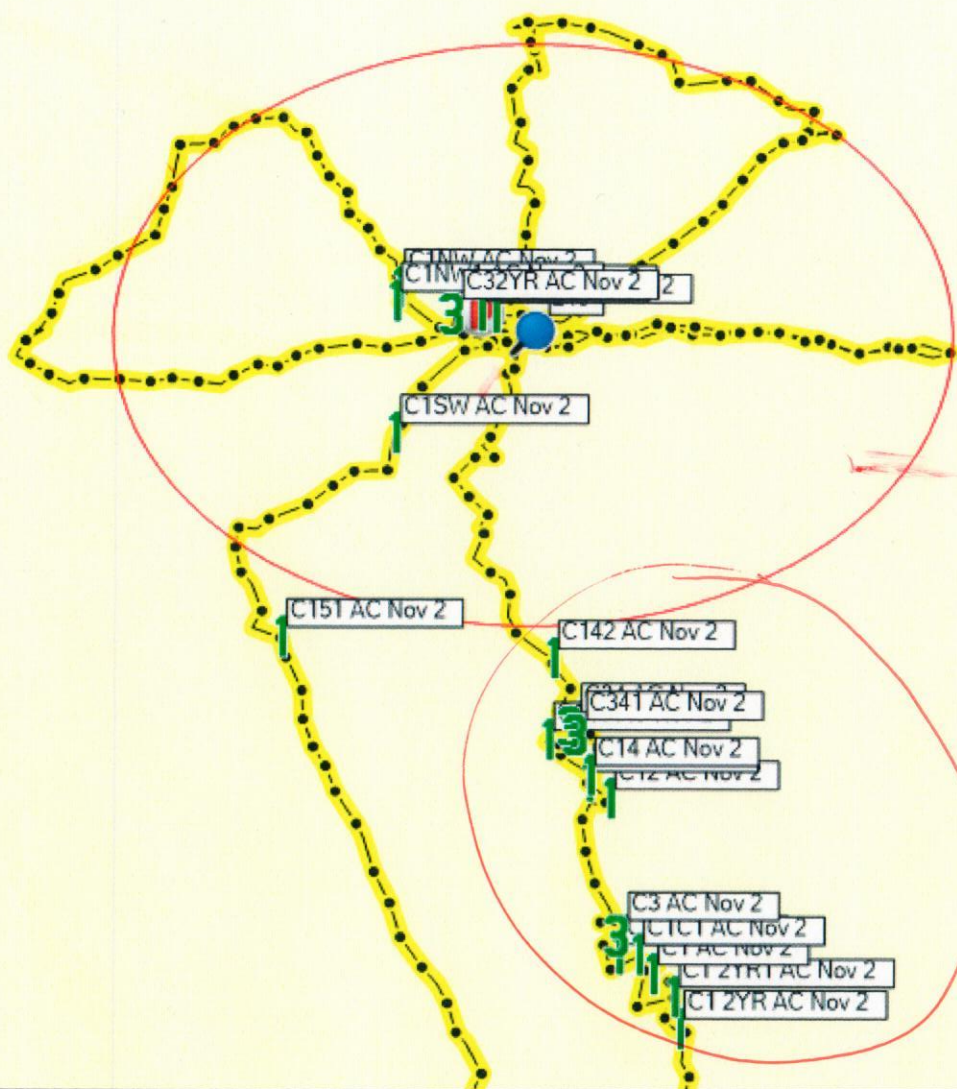
Nov 2nd

AC

Attack - Three C1's
One C3

Access - 6° 447m
North of
Quad.

Feature - Slope
0-15%, rising
to the North.

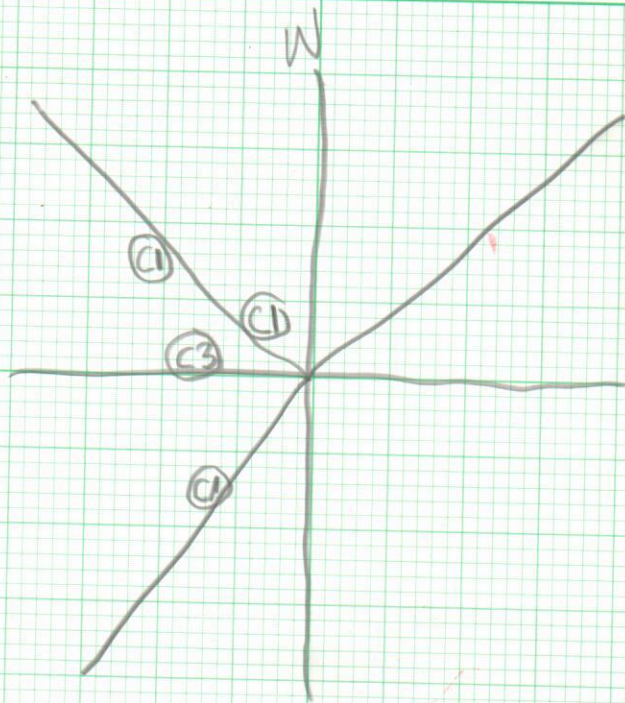


Heavy attack
outside of plot

70 m

overzoom

249



Access - walked from ATV @ 10 U 0474635
Truck parked @ 10 U 0478677
6119922
6119727

249 Plot Centre - 10 U 0474648
6120362

Aaron Colebank Nov 2nd, 2016

⊗ extremely hit area, about
9-10 hits just south of site
⊗⊗ See Reverse

Cluster of Code | trees: 10.00474675
6120142

another cluster: 10.00474661
6120210

another: 10.00474587
6120258

SPRUCE BEETLE PROBE CARD

LOCATION 249 North		1000474648 6120362		PAGE OF elev: 1382m	
BEARING 0°		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								B1
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			23	2					6

BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN	
						Attacked	Unattacked
North			10				
South			11				

COMMENTS
① - Bark Sample

CREW NAMES Aaron Colebant	DATE Y M D 2016 11 02
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