

**SENECA ENTERPRISES LTD.**

PO BOX 1902, PRINCE GEORGE, BC, V2L 5E3
Phone: (250) 561-0890, Fax: (250) 564-3275

**SPRUCE BARK BEETLE REPORT
FH17DPG218**STAR PROBE# **2016-HDL-005**

615

NUMBER OF CODE 1-4 ATTACK

2PROBE LINE **yes****SUMMARY OF CURRENT INFESTATION****LIGHT ATTACK**

psTAR Probe had 1 Code 3 and 1 Code 4 attacked tree, similar to Polygon HDL-0006. These are 2015 attacked trees, and have both Pupae and Adults in them and may have been attacked in both years. Site HDL0004, had no attack

ACCESS

From ATV Walk 1.6km.

SITE FEATURES

(Topography, Terrain, Timber Types, Age)

Open stand with lots of aspen, very wet ground.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Single code 3 and 4 attacked trees within probe.

INCIDENCE AND SEVERITY OF ATTACK

Light isolated attack, as open stand and few spruce, comes up with Heavy priority rating.

RISK OF BEETLE SPREAD and SURROUNDING SITES

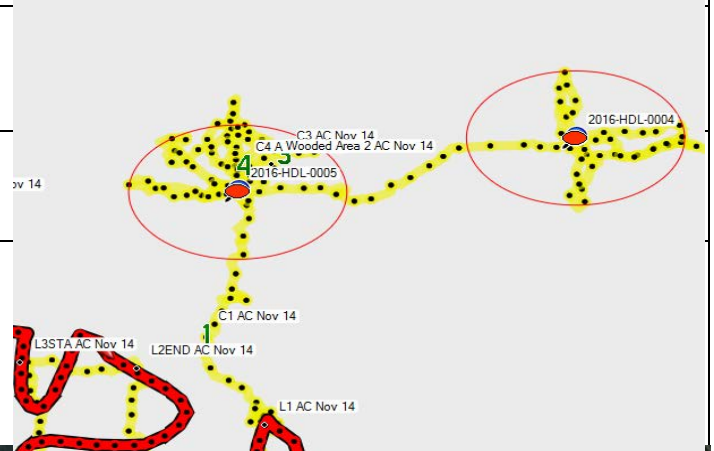
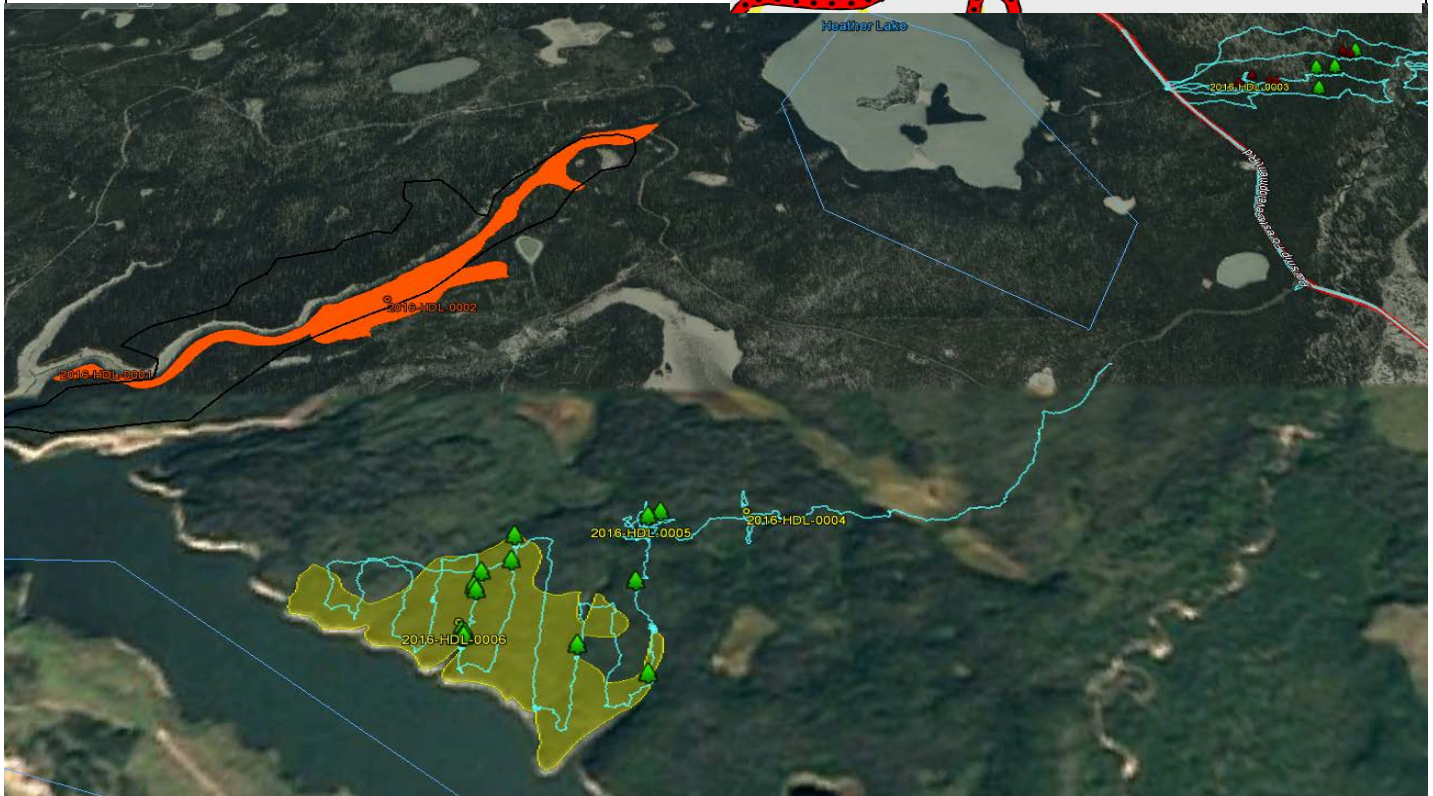
Saame as HDL-0006, beetle has advanced to the Tony area and this is an open stand

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

Walk in 2.0km, very wet site, site is before HDL-0006

RECOMMENDATIONS**OPTION 1****FALL AND BURN**

As access poor, recommend fall and burn or treatment that matches HDL-0006

OPTION 2**MONITOR**

Summary			
2016-HDL-005			82

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	9.9	0.0	0.0	0.0	0.0	0.0	0.0	6.6
25.1-30.0	5.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0
30.1-35.0	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	14.2
35.1-40.0	9.4	18.8	9.4	0.0	0.0	0.0	0.0	0.0	9.4
40.1-45.0	11.6	0	0.0	0.0	0.0	0.0	0.0	0.0	0
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	45.2	35.8	9.4	0	0.0	0.0	0.0	0	30.2

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating				
MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 4.9 LOW Mean Larval Density
	1.0- 1.9 MOD Attack Density			5.0 - 14.9 MOD Mean Larval Density
	2.0 - 3.9 HIGH Attack Density			15-24.9 HIGH Mean Larval Density
	2.00	< 3.9 SEVERE Attack Density		9.00

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2016 ATTACK	20.8%	##	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2015 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	1246.7
% 2014 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	59.9%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

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SUMMARY OF ALL CARDS FS1111	NUMBER OF CARDS	1
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ACCESS - From ATV Walk 1.6km.

SITE FEATURES - Open stand with lots of aspen, very wet ground.

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			2015		2014		2013		BL	AT
			1	2	3	4	5	6		
17.5-25.0	3.3	3	0	0	0	0	0	0	2	0
25.1-30.0	5.3	0	0	0	0	0	0	0	0	0
30.1-35.0	7.1	1	0	0	0	0	0	0	2	0
35.1-40.0	9.4	2	1	0	0	0	0	0	1	0
40.1-45.0	11.6	0	0	0	0	0	0	0	0	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		6	1	0	0	0	0	0	5	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 Yr	Yr	Unattacked
2	4	2	18	0	10	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

Single code 3 and 4 attacked trees within probe.

INCIDENCE AND SEVERITY OF THE INFESTATION

Light isolated attack, as open stand and few spruce, comes up with Heavy priority rating.

RISK OF BEETLE SPREAD

Saame as HDL-0006, beetle has advanced to the Tony area and this is an open stand

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

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82



BRITISH COLUMBIA



SPRUCE BEETLE PROBE CARD

LOCATION		82 NE 1000482855 6147786		PAGE 1 OF 1	
BEARING		450		DISTANCE 0-100m	
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		6	1						5

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

COMMENTS: ① - Bark Sample

CREW NAMES	Aaron Colebank	DATE	2016.11.14
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R.D. PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSAK WATERPROOF

Access - road @ 1000484402
6148518
truck @ 1000485136
6148901

82 Plot Centre - 1000482855
6147786

Aaron Colebank Nov 14th

* North h pushed to 160m

METRIC