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-BLA-0178** 63

NUMBER OF CODE 1-4 ATTACK 0

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION **LIGHT ATTACK**

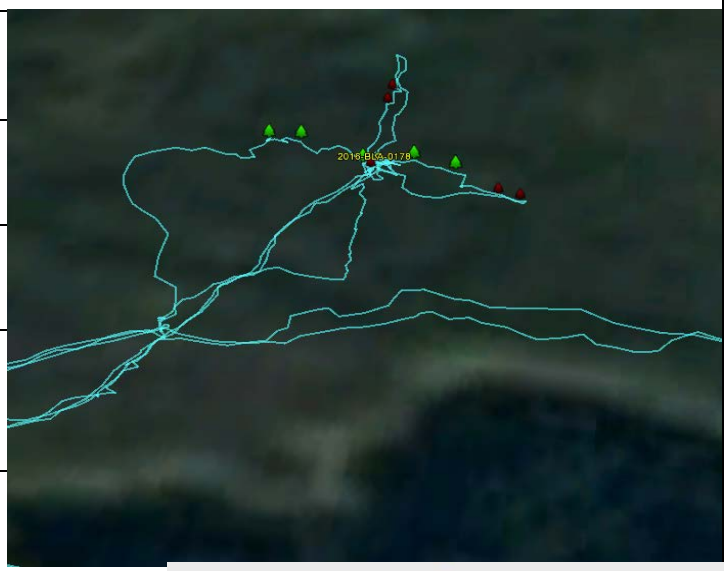
Star Probe had 5 code 3 attacks, 5 code 5 attacked trees. Low sanitation rating from one probe line

ACCESS

Fromn Truck walk 200m at 28 degrees, plantation to the south of site, fairly flat, site located behind lake

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

Minimal slope, located behind lake.



SIZE, BOUNDARY and PATTERN OF INFESTATION

Light attack,

INCIDENCE AND SEVERITY OF ATTACK

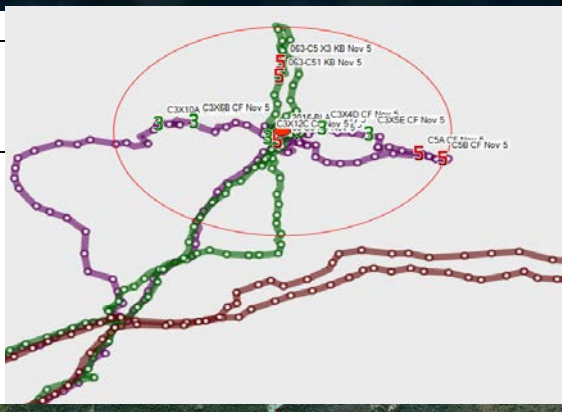
Light attack, one probe line and sample with low mean larval density. However are Code 3's and parent adults will fly 2017

RISK OF BEETLE SPREAD and SURROUNDING SITES

Nothing to the north to stop spread although will be light. Site to the east and west had minimal signs., but could move either way

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

Good access through old cutblock, behind lake.



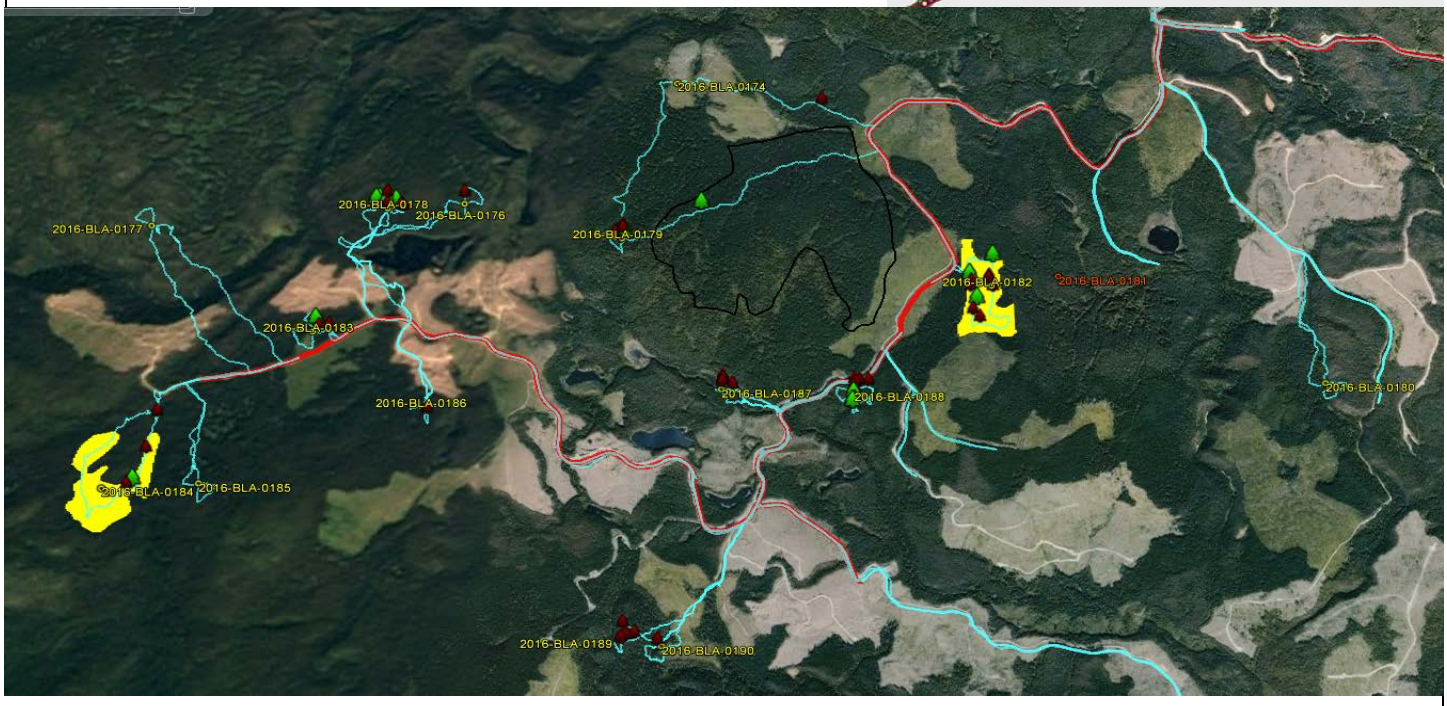
RECOMMENDATIONS

OPTION 1 **NO ACTION**

As low sanitation rating, noi action required

OPTION 2 **TRAP TREES,BAITS**

as Nearby Lake, could lay trap trees (decent access) to prevent beetle from moving further north. Isolated attack but will fly 2017



Summary

2016-BLA-0178		63

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	23.1	0.0	0.0	0.0	0.0	0.0	0.0	9.9
25.1-30.0	5.3	37.1	0.0	0.0	0.0	0.0	0.0	0.0	68.9
30.1-35.0	7.1	92.3	0.0	0.0	7.1	0.0	0.0	0.0	7.1
35.1-40.0	9.4	9.4	0.0	0.0	18.8	0.0	0.0	0.0	56.4
40.1-45.0	11.6	34.8	0.0	0.0	0.0	0.0	0.0	0.0	34.8
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	16.2	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	238.8	212.9	0.0	0	25.9	0.0	0.0	0	177.1

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	
	< 1 LOW Attack Density		< 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	1.00	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

			SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2016 ATTACK	0.0%	0.0				
% 2015 ATTACK	10.8%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	415.2
% 2014 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	57.4%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS 1

ACCESS - Fromn Truck walk 200m at 28 degrees, plantation to the south of site, fairly flat, site located behind lake

SITE FEATURES - Minimal slope, located behind lake.

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	BL	AT
17.5-25.0	3.3	7	0	0	0	0	0	0	3	0
25.1-30.0	5.3	7	0	0	0	0	0	0	13	0
30.1-35.0	7.1	13	0	0	1	0	0	0	1	0
35.1-40.0	9.4	1	0	0	2	0	0	0	6	0
40.1-45.0	11.6	3	0	0	0	0	0	0	3	0
45.1-50.0	13.8	0	0	0	0	0	0	0	0	0
50.1-55.0	16.2	1	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		32	0	0	3	0	0	0	26	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 Y r	Y r ____	Unattacked
2	4	3	2	0	4	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

Light attack,

INCIDENCE AND SEVERITY OF THE INFESTATION

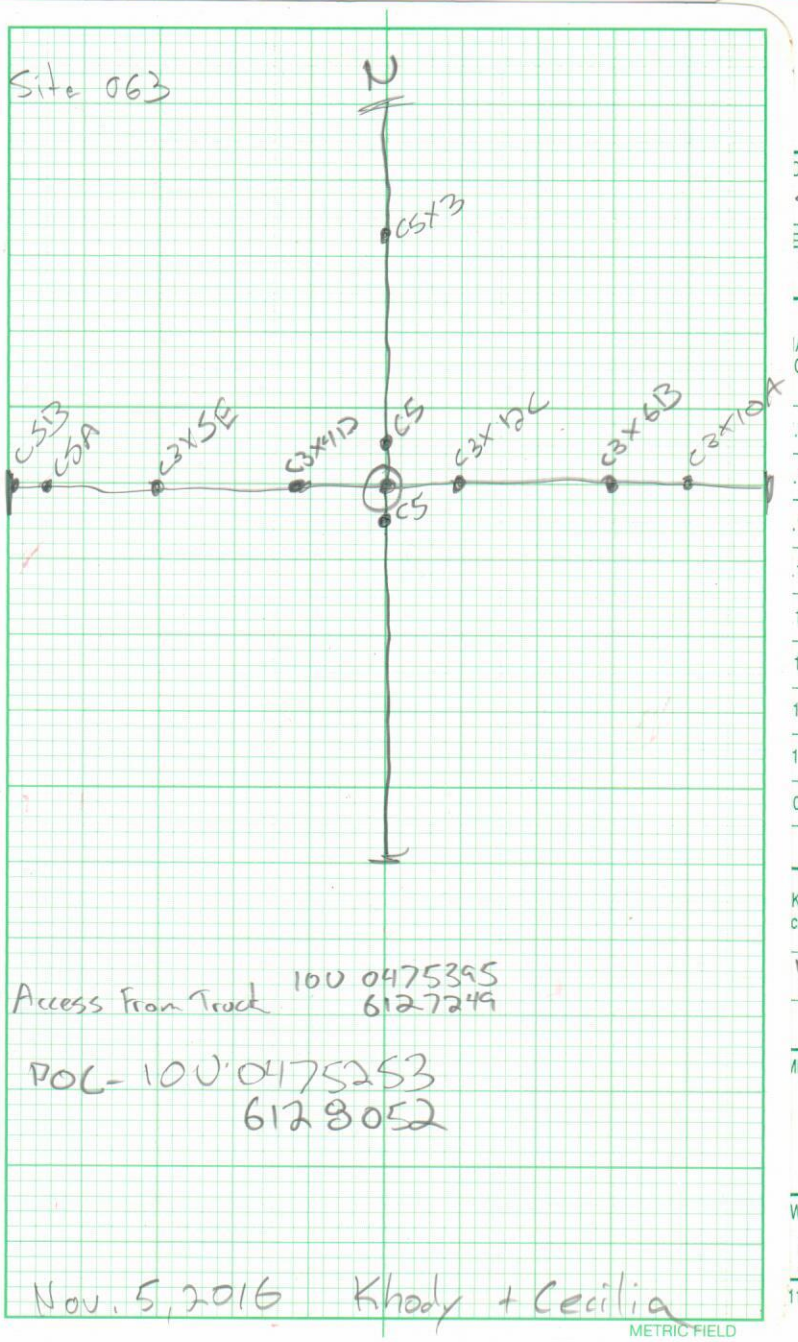
Light attack, one probe line and sample with low mean larval density. However are Code 3's and parent adults will fly 2017

RISK OF BEETLE SPREAD

Nothing to the north to stop spread although will be light. Site to the east and west had minimal signs., but could move either way

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access through old cutblock, behind lake.



R.D. PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

SPRUCE BEETLE PROBE CARD

LOCATION		PAGE	OF
SITE 063			
BEARING	DISTANCE	STRIP WIDTH	
270°	100 m	10 m	

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK 1	2	3	4	5	6	OTHER TREE SPECIES
.5 - 25.0	3.3	11							B1
.1 - 30.0	5.3	4							
.1 - 35.0	7.1	8			1				1
.1 - 40.0	9.4	1			1				2
1 - 45.0	11.6	2							2
1 - 50.0	13.8								
1 - 55.0	16.2	1							
1 - 60.0	18.7								
0.1 +	25.3								
TOTALS		32			3				26

K SAMPLES cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN Attacked	Unattacked
N	2	2	2	/	3		
S	4	1	/	/	1		

MMENTS

(6) BS - in second year of life cycle

W NAMES	DATE Y	M	D
KB, CF	16	11	05

11 RPG 2000/01 7530881048 (100/bdl)