

SUMMARY OF CURRENT INFESTATION

Star probe shows 1 Code 1 AND 1 Code 2 Attacked tree. Extended line to see if attack extended, did not find more.

ACCESS

From Clearwater FSR, walk from truck 70m @ 90 degrees

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

Steep Slope 0-25% West as walk towards site. West edge runs along Mainline Road and Alder at 90m East. 50% SPRUCE, smaller DBH, Cliff at South end of site.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Sporadic Code 1 attack in site. Seems to be moving up from the river where high susceptibility.

INCIDENCE AND SEVERITY OF ATTACK

1 probe line established representative of site. 1 CODE 1 found with Moderate sanitation rating. Low Attack density high larval density

RISK OF BEETLE SPREAD and SURROUNDING SITES

Site had moderate attack with a moderate sanitation rating. Appears that the attack is coming up from the Clearwater river in this area and This site has smaller DBH Spruce than in others. Based on stand, lower risk of spread..

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Adjacent to road. Alder at 90m East, steeper slopes.

RECOMMENDATIONS

OPTION 1

TRAP TREE TRAILS

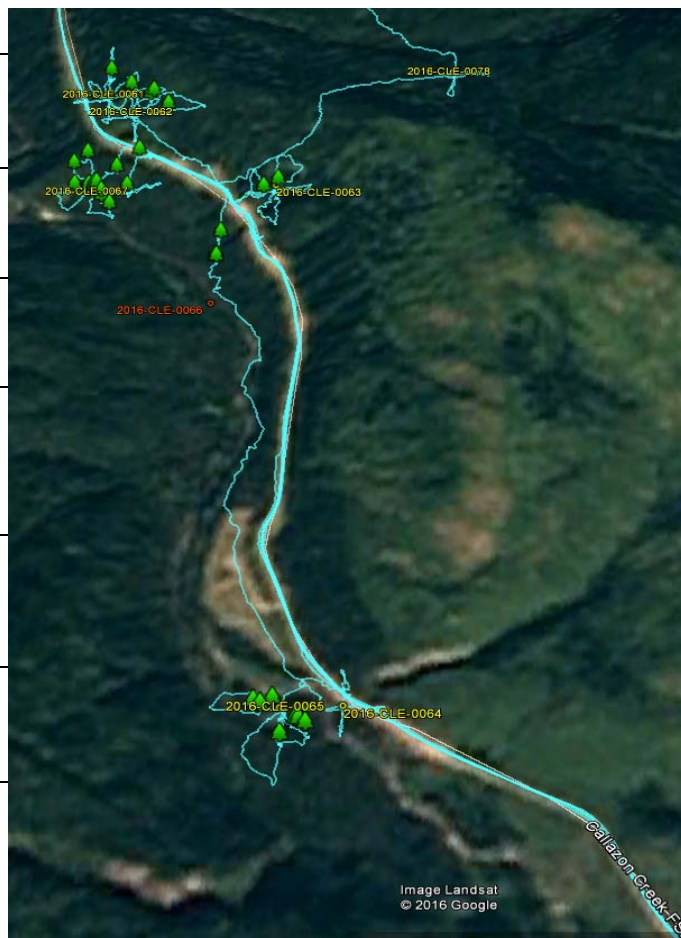
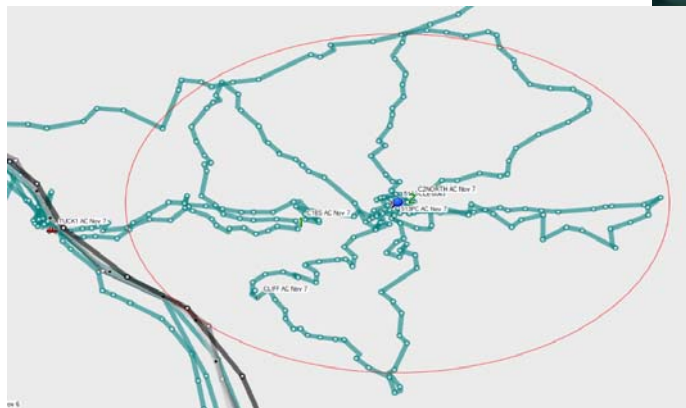
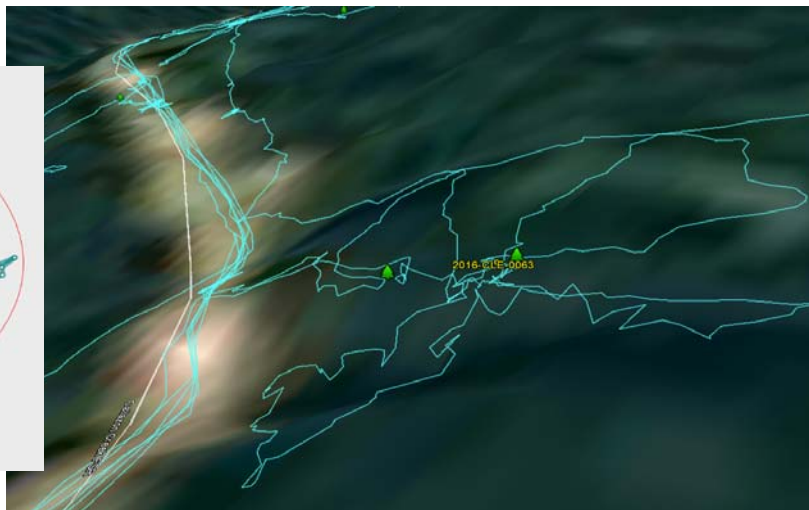
As access good, establish trap tree trail alongside road. Establish a couple others in surrounding sites.

OPTION 2

MONITOR/ EST. POLYGON

Monitor and/or create a polygon along east side of river to incorporate attack in area and better measure impact of attack.,

LIGHT/MOD ATTACK



Summary			
2016-CLE-0063			513

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	26.4	0.0	0.0	0.0	0.0	0.0	0.0	56.1
25.1-30.0	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	15.9
30.1-35.0	7.1	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0
35.1-40.0	9.4	0	0.0	0.0	0.0	0.0	0.0	0.0	0
40.1-45.0	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	11.6
45.1-50.0	13.8	0	13.8	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	85.5	71.7	13.8	0	0.0	0.0	0.0	0	83.6

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
	< 3.9 SEVERE Attack Density			>24.9 EXTREME Mean Larval Density
1.00			18.00	

TABLE 2- Spruce Beetle Management Options after Walkthrough			
% 2016 ATTACK	16.1%	##	SANITATION AND SALVAGE HARVEST PRIORITY RATING
% 2015 ATTACK	0.0%	##	LIGHT 0-599 LEAVE (Monitor, Trap Trees, Baits, etc)
% 2014 ATTACK	0.0%	##	MODERATE 600-999 PROBE (To Obtain Further Info)
% HOST IN STAND	50.6%	##	HEAVY 1000+ RECOMMEND CRUISING/ LOGGING
			816.1

SUMMARY OF ALL CARDS FS1111	NUMBER OF CARDS	1
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ACCESS -	From Clearwater FSR, walk from truck 70m @ 90 degrees
SITE FEATURES -	Steep Slope 0-25% West as walk towards site. West edge runs along Mainline Road and Alder at 90mEast. 50% SPRUCE, smaller DBH, Cliff at South end of site.

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	8	0	0	0	0	0	0	17	0
25.1-30.0	5.3	1	0	0	0	0	0	0	3	0
30.1-35.0	7.1	4	0	0	0	0	0	0	0	0
35.1-40.0	9.4	0	0	0	0	0	0	0	0	0
40.1-45.0	11.6	1	0	0	0	0	0	0	1	0
45.1-50.0	13.8	0	1	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		14	1	0	0	0	0	0	21	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	2	0	36	2	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION
Sporadic Code 1 attack in site. Seems to be moving up from the river where high susceptibility.
INCIDENCE AND SEVERITY OF THE INFESTATION
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RISK OF BEETLE SPREAD
Site had moderate attack with a moderate sanitation rating. Appears that the attack is coming up from the Clearwater river in this area and This site has smaller DBH Spruce than in others. Based on stand, lower risk of spread..
ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES
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SPRUCE BEETLE PROBE CARD

LOCATION 513 West		1000502577 6168474		PAGE OF	
BEARING 270°		DISTANCE 100m		STRIP WIDTH 10m	

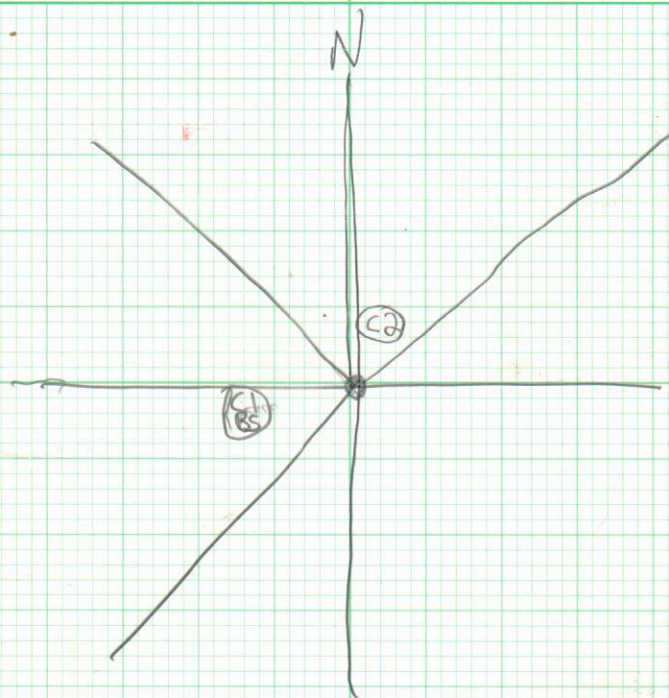
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			1	2	3	4	5	6		
17.5 - 25.0	3.3	1								
25.1 - 30.0	5.3									
30.1 - 35.0	7.1									
35.1 - 40.0	9.4									
40.1 - 45.0	11.6									
45.1 - 50.0	13.8									
50.1 - 55.0	16.2									
55.1 - 60.0	18.7									
60.1 +	25.3									
TOTALS		14	1							21

BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN	
						Attacked	Unattacked
North			1				
South			1				

COMMENTS
Bark Sample

CREW NAMES Aaron Colebank	DATE 2016 11 10
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FS 1111 RPG 2000/01 7530881048 (100/bdl)



Access walked from truck @ 1000502577
6168466

513 Plot Centre - 1000502577
6168474

Aaron Colebank Nov 7th, 2016

⊗ North pushed to 120m
East

METRIC FIELD