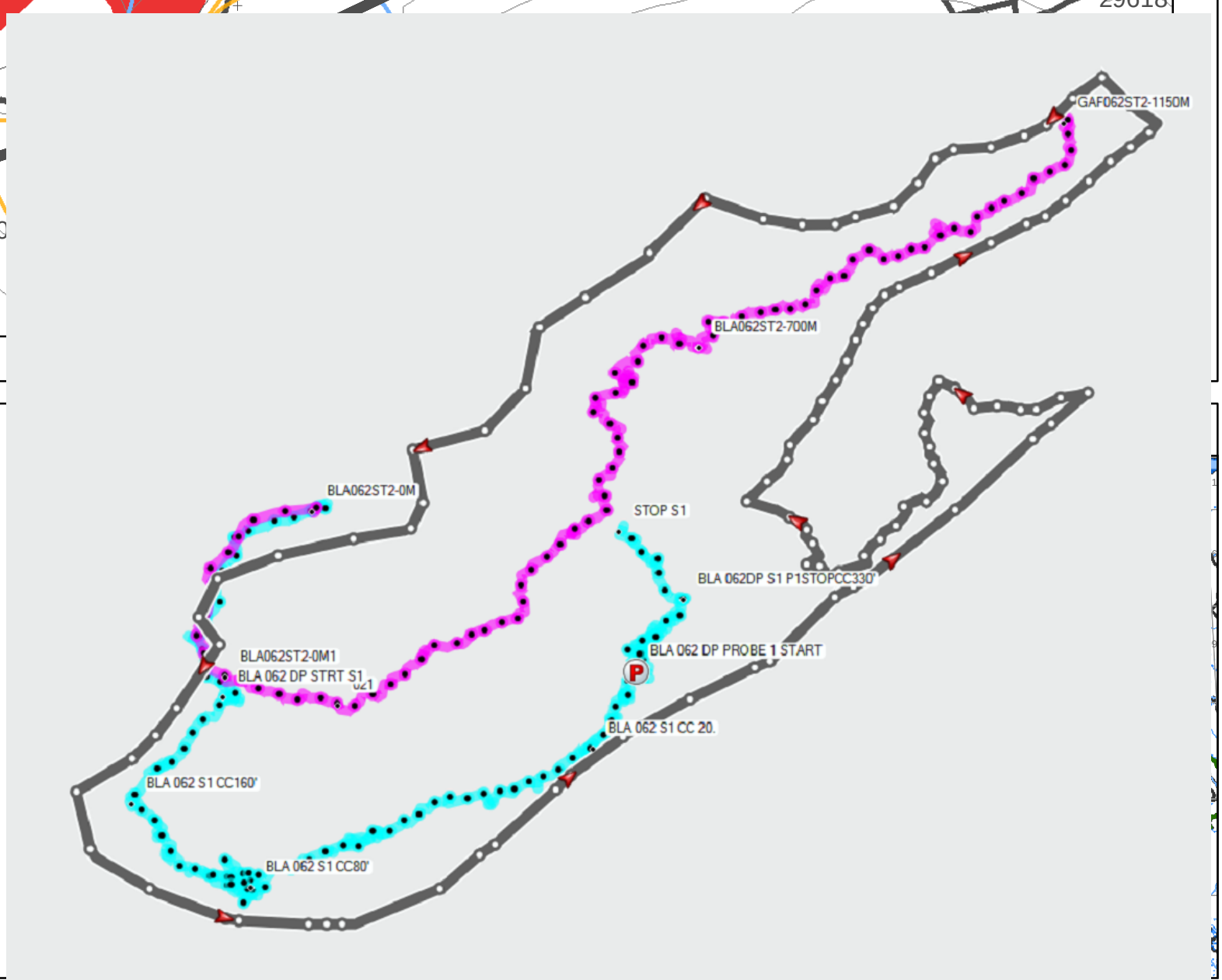
Polygon Name: 2015-BLA-062

LIGHT SCATTERED ATTACK (3- Code 1's, 1 Code 3)

A15384 CP C14 07/05/2013 ACTIVE

A87345 CP Q 20/01/2012 ACTIVE



Ministry of Forests, Lands and Natural Resource Operations

Spruce Bark Beetle Field Map

Polygon Name: 2015-BLA-062

Landscape Unit/BMU:	Blackwater
Region:	Omineca
District:	Mackenzie
Mapsheet:	093O12
Hectares:	36.42
Scale:	1:10,000
When plotted on 11x17	
Coordinate System:	PCS Albers
Datum:	North American 1983
Date Drawn:	03/06/2015
Drawn By:	msnively

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

SPRUCE BARK BEETLE REPORT FH16DMK010

POLYGON: **2015-BLA-062** HECTARES: 36.42

WALKTHROUGH DISTANCE: 2150

ESTIMATED INFFESTED PIXELS FROM WALKTHROUGH (Code 1-4) 3 **14.0%**

SUMMARY OF CURRENT INFESTATION

Walkthrough found 3 infested pixels with single tree recent attacks. There was older attack leading to a moderate Sanitation and Salvage rating which is consitent through polygon. (Older attack with fewer recent attack found) Attack is scattered throughout and mainly around blowdown areas and edges of the creek draws where more pruce/ Spruce stand fairly small in comparison with other stands.

LIGHT SCATTERED ATTACK

ACCESS

Access is 4wd to the northeast portion of Polygon.

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

Minimal slope from 0-20% fom west to east. Stand average 50/50 Spruce Balsam. Dranage runs legth of polygon.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Polygon had light scattered attack with only 2- Code 1 trees and 1 Code 3 Attack found. 3 infested pixels however each attack was single attacks amongst older attack Code 5's.

INCIDENCE AND SEVERITY OF ATTACK

1 probe line determined a moderate sanitation and salvage rating due to older Code 5 attacked trees. Within these areas, generally light scattered current attack with only 3 Code 1's and 1 Code 3 found in walkthrough.

RISK OF BEETLE SPREAD

Polygon has isolated scattered attack, with low attack densities. Slow ratr of spread could be expected through polygon

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access by pickup to NE end of Polygon. Hasa a draw running through length of polygon but minimal slopes.

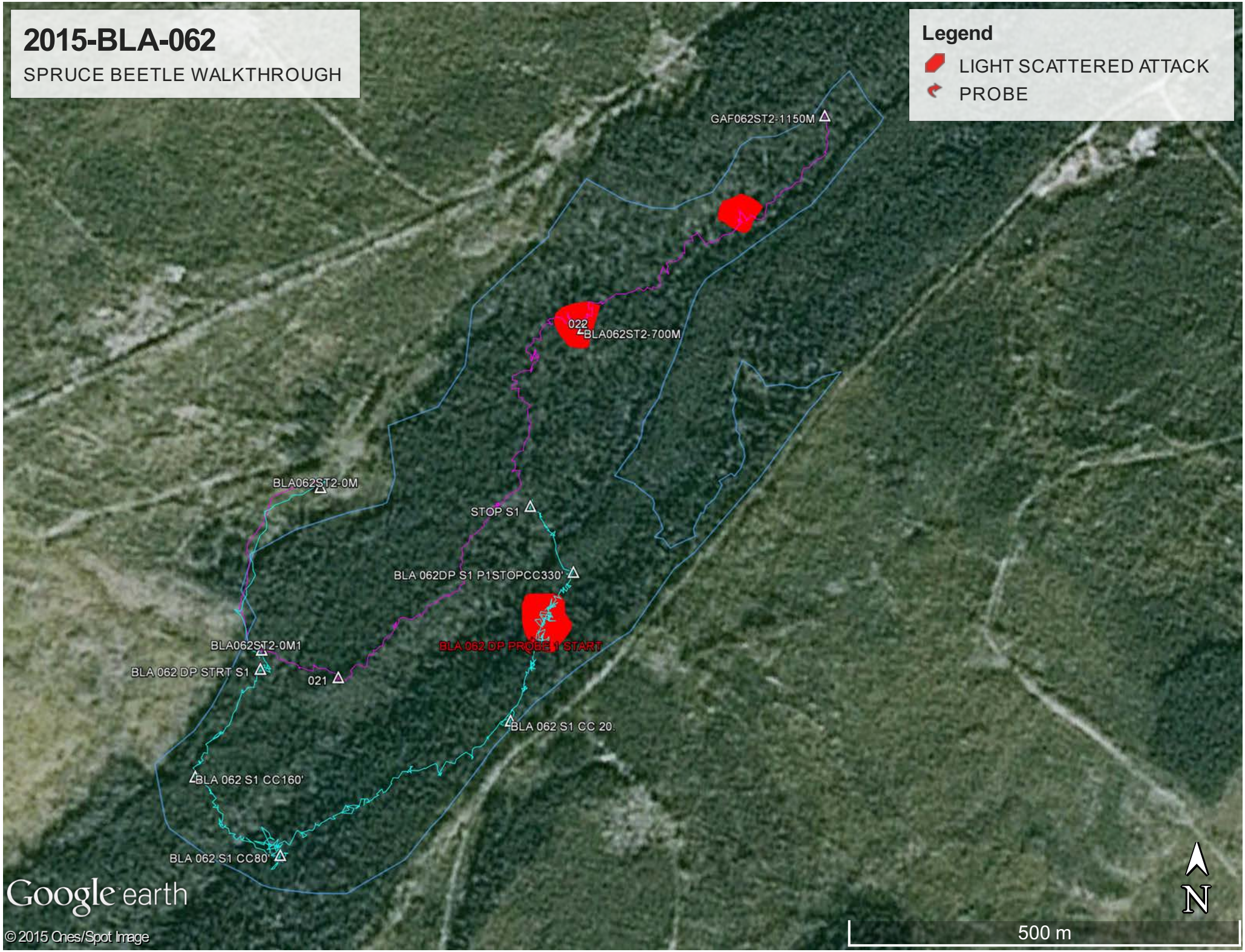
RECOMMENDATIONS

OPTION 1 **MONITOR**

Sanitation and Salvage rating moderate due to older attack. Walkthrough determined minimal light scattered attack outside of areas with the Code 5's. With minimal risk of spread this year, monitor and schedule another walkthrough 2016.

OPTION 2 **PROBE/ BAITS**

If salvage is an option, may want to schedule a probe to further determine areas with older and newer attack and stratfiy. Access is good to the north and minimal resource issues. May want to set up Baits as evidence of 2014 attack (1) and 3 instances of Recent attack on a 2 year cycle)


2015-BLA-062
SPRUCE BEETLE WALKTHROUGH
Legend
LIGHT SCATTERED ATTACK
PROBE
GAF062ST2-1150M
022
BLA062ST2-700M
BLA062ST2-0M
STOP S1
BLA 062DP S1 P1STOPCC330'
BLA062ST2-0M1
BLA 062 DP PROBE 1 START
BLA 062 DP STRT S1
021
BLA 062 S1 CC 20.
BLA 062 S1 CC160'
BLA 062 S1 CC80'
Google earth
© 2015 Cnes/Spot Image
N
500 m

Summary

2015-BLA-062	HEC	36.42	METERS WALKED	2150	% TRAVERSED	5.9%	
PIXELS COVERED BY WALKTHROUGH	21.5	INFESTED PIXELS	3	**ESTIMATED % OF BLOCK INFESTED (From Walk through)**		**14.0%**	

TABLE 5- Spruce Beetle Infestation Summary Sheet

OF NOTE- Results taken from a 100m Probe Line established at 1 per 50 hectares to represent

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	3.3	0.0	0.0	0.0	6.6	0.0	56.1
25.1-30.0	5.3	21.2	0.0	0.0	0.0	0.0	15.9	0.0	26.5
30.1-35.0	7.1	14.2	0.0	0.0	0.0	0.0	35.5	0.0	7.1
35.1-40.0	9.4	9.4	0.0	0.0	0.0	0.0	9.4	0.0	0
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	125.4	54.7	3.3	0	0.0	0.0	67.4	0	89.7

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
0.00	< 3.9 SEVERE Attack Density	0.00	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2015 ATTACK	2.6%	2.6	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	936.8
% 2013 ATTACK	53.7%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	58.3%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

FROM 1 PROBE LINE, NO BARK SAMPLE

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS: 1

ACCESS - Access is 4wd to the northeast portion of Polygon.

POLYGON FEATURES - Minimal slope from 0-20% fom west to east. Stand average 50/50 Spruce Balsam. Dranage runs legth of polygon.

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	3	1	0	0	0	2	0	16	1
25.1-30.0	5.3	4	0	0	0	0	3	0	2	3
30.1-35.0	7.1	2	0	0	0	0	5	0	1	0
35.1-40.0	9.4	1	0	0	0	0	1	0	0	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		10	1	0	0	0	11	0	19	4

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	0	0	0	0	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

Polygon had light scattered attack with only 2- Code 1 trees and 1 Code 3 Attack found. 3 infested pixels however each attack was single attacks amongst older attack Code 5's.

INCIDENCE AND SEVERITY OF THE INFESTATION

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RISK OF BEETLE SPREAD

Polygon has isolated scattered attack, with low attack densities. Slow ratr of spread could be expected through polygon

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access by pickup to NE end of Polygon. Hasa a draw running through length of polygon but minimal slopes.

SPRUCE BEETLE PROBE CARD

LOCATION		PAGE	OF
BLA 062	N.55°38.024' W123°54.894'	1 -	1
BEARING	DISTANCE	STRIP WIDTH	
20	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 B	P
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		9	1				12		19	4

BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN Attacked	Unattacked
NO SAMPLE	NONE	/	/	/	/		
NO SAMPLE	NONE	/	/	/	/		

COMMENTS
NO BEETLE FOUND HERE SPRUCE FADED TO OLD PINE STAND BEETLE DEAD

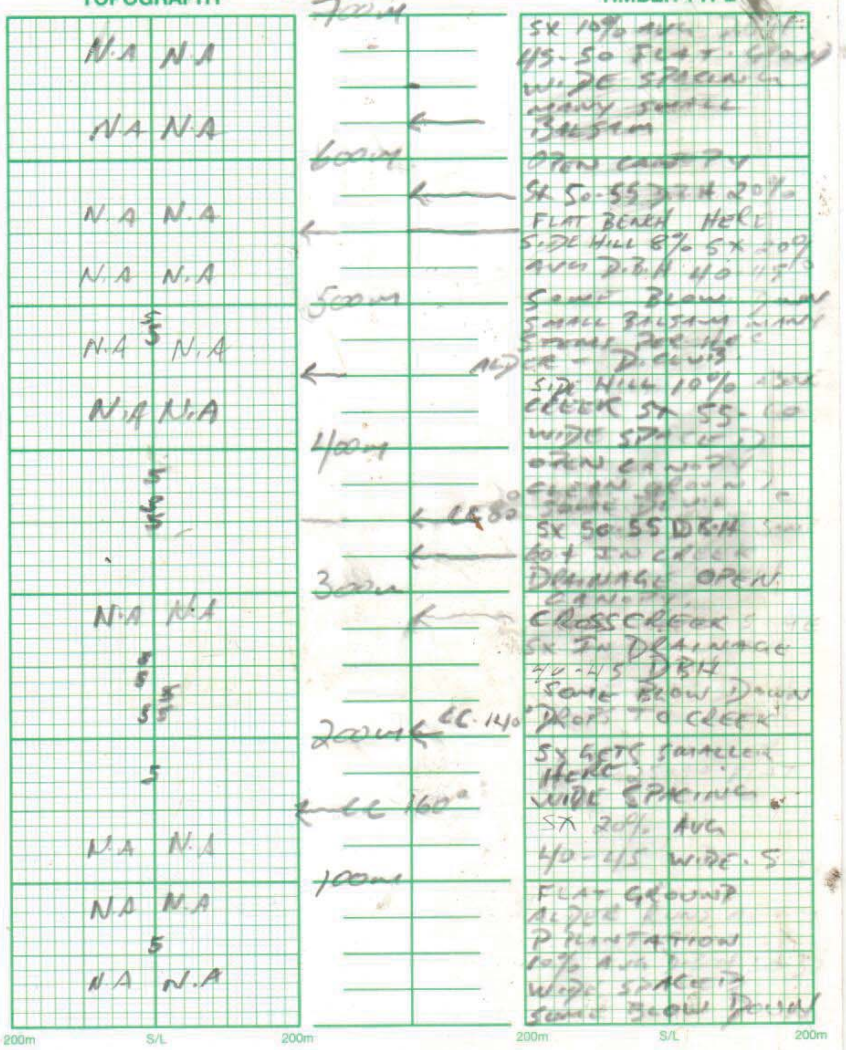
CREW NAMES	DATE Y	M	D
DON & DAVE	15	10	20

FS 1111 RPG 2000/01 7530881048 (100/bdl)

TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION: 220°

START STRIP: 0-m

JOB NO.: BLA 062 DATE: OCT/20/15

CREW: DANE DAVE

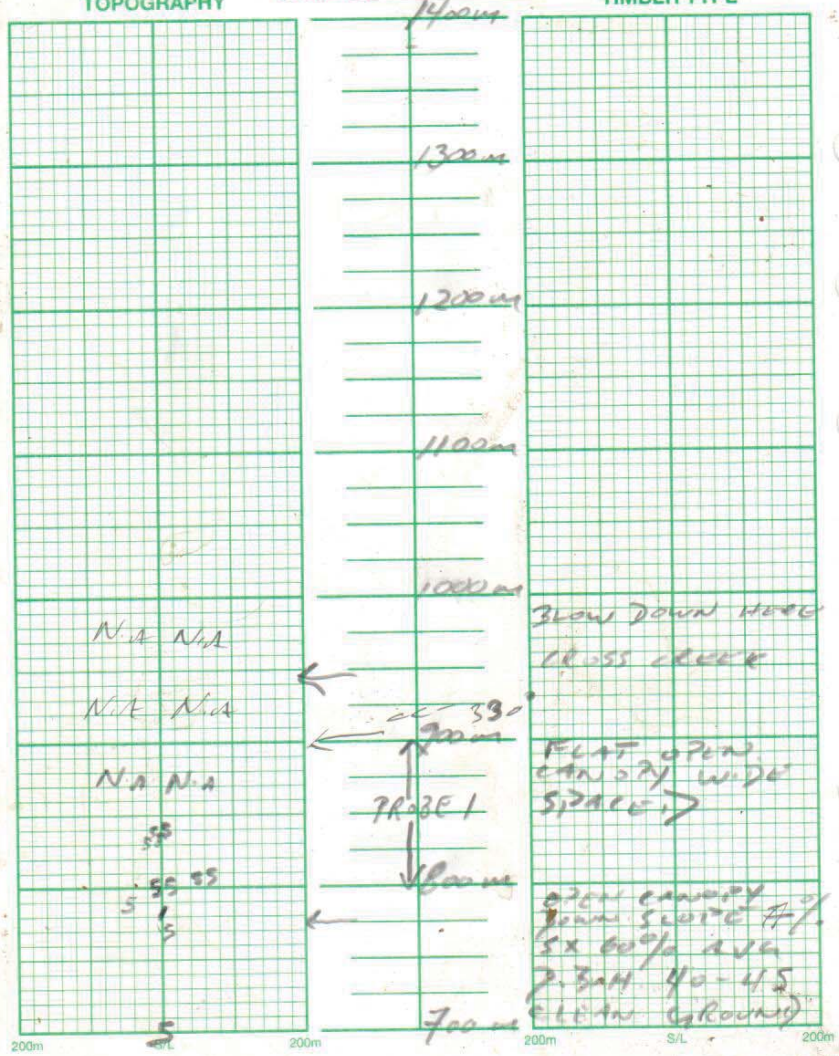
REMARKS:

www.irlsupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



STRIP NO.: 1 DIRECTION: 20°

START STRIP: 700m

JOB NO.: BLA 062 DATE: OCT/20/15

CREW: DANE DAVE

REMARKS:

www.irlsupplies.com
Ph: 1-800-663-6843

STRIP No. BLA-062

TOPOGRAPHY		TIMBER TYPE
3	700 gentle slope sx - 30-70 blow-down	50% SX 50% Balsam Pine
5 5	600 flat terrain sx - 20-50 blow-down	50% SX 50% Pine Balsam
5	500 flat terrain sx - 20-40 blow-down	70% Balsam Pine 30% SX
5 5	400 flat terrain sx - 20-45 wide spaced spruce	70% Balsam 30% SX
5 5	300 flat terrain sx - 20-40 blow-down	70% Balsam 30% SX
N/A 5	200 flat terrain sx 20-50	60% Balsam 40% SX
* - 60° N/A no attack	100 flat terrain sx 20-40	50% SX 50% Balsam Pine

200m S/L 200m

STRIP NO.: 2 DIRECTION: 118°

START STRIP:

JOB NO.: DATE: 15/10/20

CREW: Don + Dave

REMARKS:

www.irlsupplies.com Ph: 1-800-663-6843

STRIP No. BLA-062

TOPOGRAPHY		TIMBER TYPE
	1400	
	1300	
	1200	
* 5 blow-down	1100 flat terrain sx wide spaced 30-50	60% SX 40% Balsam Pine
5 5 5 5 blow-down	1000 flat terrain alder patch few SX	few SX alder patch
* 5 blow-down 5 5	900 flat terrain sx - 30-80+ blow-down	80% SX 20% Balsam Pine
5 1 5 5 5 5 5	800 flat terrain sx - 30-80+ blow-down	80% SX 20% Balsam Pine
Alder path 5 5 5 5 5 5 5	700	

200m S/L 200m

STRIP NO.: 2 DIRECTION: 60°

START STRIP:

JOB NO.: DATE: 15/10/20

CREW: Don + Dave

REMARKS:

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