

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH16DMK016,017**

POLYGON: 2015-BLA-071

HECTARES:

144.60

WALKTHROUGH DISTANCE:

7400

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

18 24.3%

SUMMARY OF CURRENT INFESTATION

Walkthrough shows 25% infested pixels and the polygon has fairly heavy concentrated attack to the north and east with one and two year life cycles. There were also a few code 3's noted as well.

HEAVY CONCENTRATED ATTACK**ACCESS**

Truck parked at 22km on Nation FSR, sled 5km to the outh point of Polygon. May be alternate access to the north along old cut block road.

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

Areas within polygon of thick Sx and Bl regen, Elevation rises and peaks in the center of the polygon.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Heavy attack along the East edge of polygon and in the northern 1/3 of the polygon. Attack has both 1 and 2 year attack and is very heavy leading to a sanitation rating of 2600 ifrom 2 probe lines in heavily infested areas.

INCIDENCE AND SEVERITY OF ATTACK

25% of polygon has infested pixels Mostly along the east boundary and in the north. Heavy attack. Moderate attack and Mean Larval denisties and heavy sanitation rating.

RISK OF BEETLE SPREAD

Polygon surrounded by cutblocks however will spread south within polygon.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access along unplowed road and polygon surrounded by cutblocks to the north and south.

RECOMMENDATIONS**OPTION 1****TRAP TREES**

With a heavy sanitation rating, and having 25% of pixels infested with attack to fly in both 2016 and 2017, need to establish a strategy of trap tree trails in several places to hold the beetle. Most of infestation to the north and along east side and need to gain access to northeast road. Map says active area adjacent to polygon. CPL30 A15384

OPTION 2**CRUISE HARVEST**

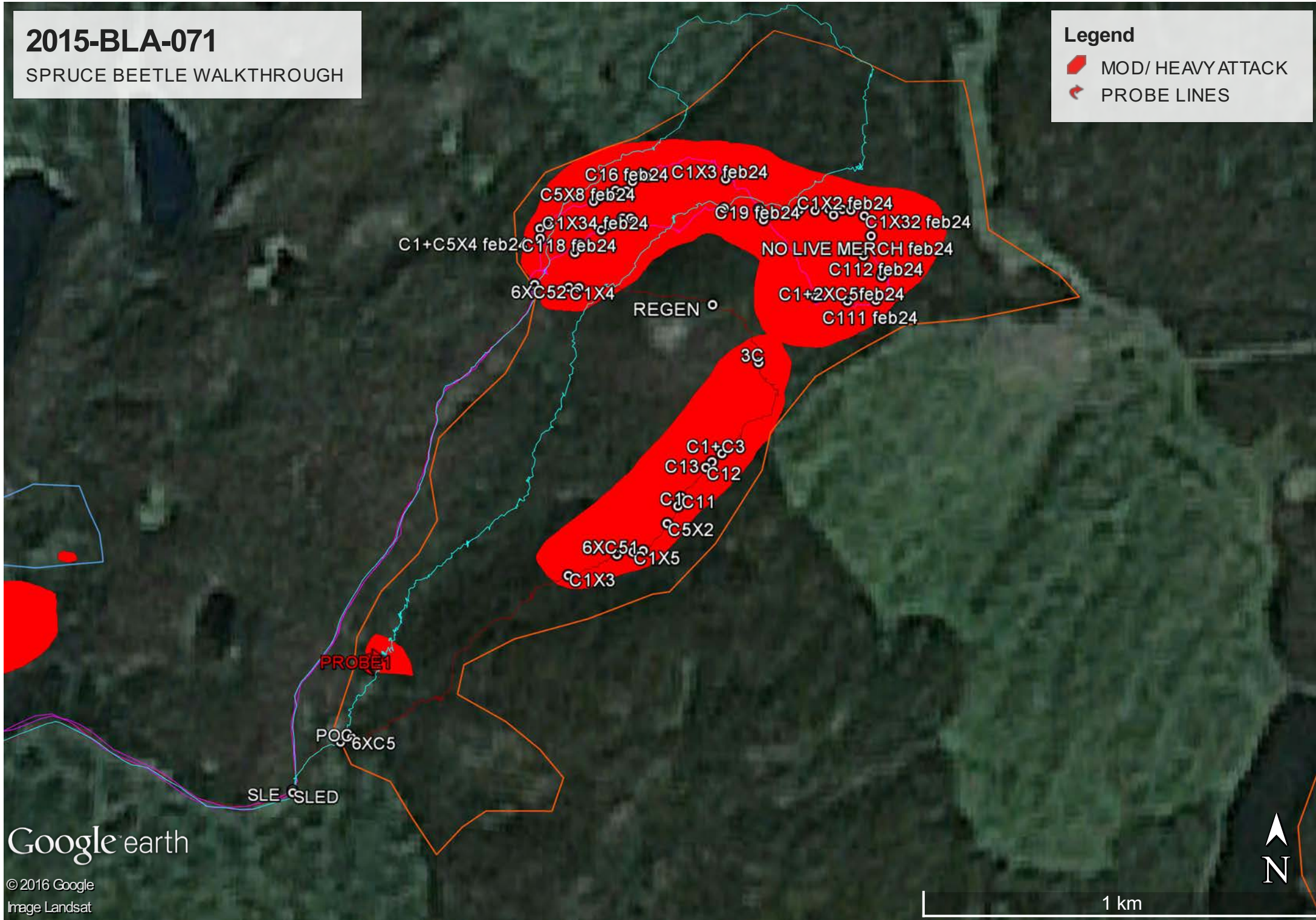
While surrounded by cutblocks, should be fairly easy to harvest around them to capture beetle in the northern and eastern portions of polygon.

2015-BLA-071

SPRUCE BEETLE WALKTHROUGH

Legend

- MOD/ HEAVY ATTACK
- PROBE LINES



Google earth

© 2016 Google
Image Landsat

1 km

Summary						
2015-BLA-071	HEC	144.60	METERS WALKED	7400	% TRAVERSED	5.1%
PIXELS COVERED BY WALKTHROUGH	74	INFESTED PIXELS	18	ESTIMATED % OF BLOCK INFESTED (From Walk through)		24.3%



BEETLE PROBE CARD

LOCATION BLA-071		ELEVATION 924m	LATITUDE 0459009		PAGE 6134245		OF				
BEARING 23°	STRIP LINE NO	STRIP WIDTH 10m	DISTANCE 100m	BEETLE SPECIES ☒ SB ☐ MPB ☐ DFB							
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	MAIN	OTHER	
12.5 - 17.4	2.0									Balsam	
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											
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN					
						Attacked	Unattacked				
	3		5		2						
	2		3								
COMMENTS											
CREW NAMES BLAKE B/PAT P											
DATE 16 2 22											

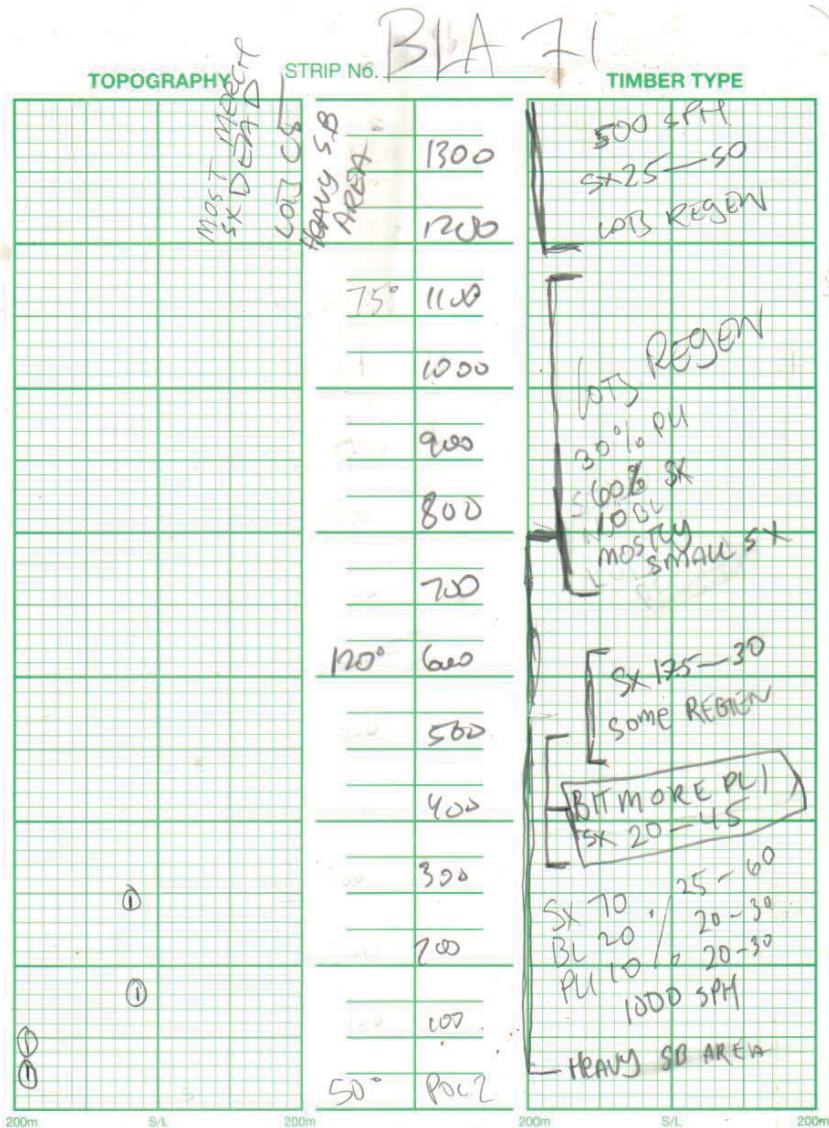
FS 1111A RPG 00/02 7530881049 (100/bdl)



BEETLE PROBE CARD

LOCATION 459478 6134456		ELEVATION	LATITUDE		PAGE		OF				
BEARING 60°	STRIP LINE NO	STRIP WIDTH 10	DISTANCE 100	BEETLE SPECIES ☐ SB ☐ MPB ☐ DFB							
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	MAIN	OTHER	
12.5 - 17.4	2.0									BL	
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											
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN					
						Attacked	Unattacked				
N	3		22		3						
S											
COMMENTS PROBE 2											
CREW NAMES PATRICK PEWATIER											
DATE 16 2 22											

FS 1111A RPG 00/02 7530881049 (100/bdl)



STRIP NO.: _____ DIRECTION: _____

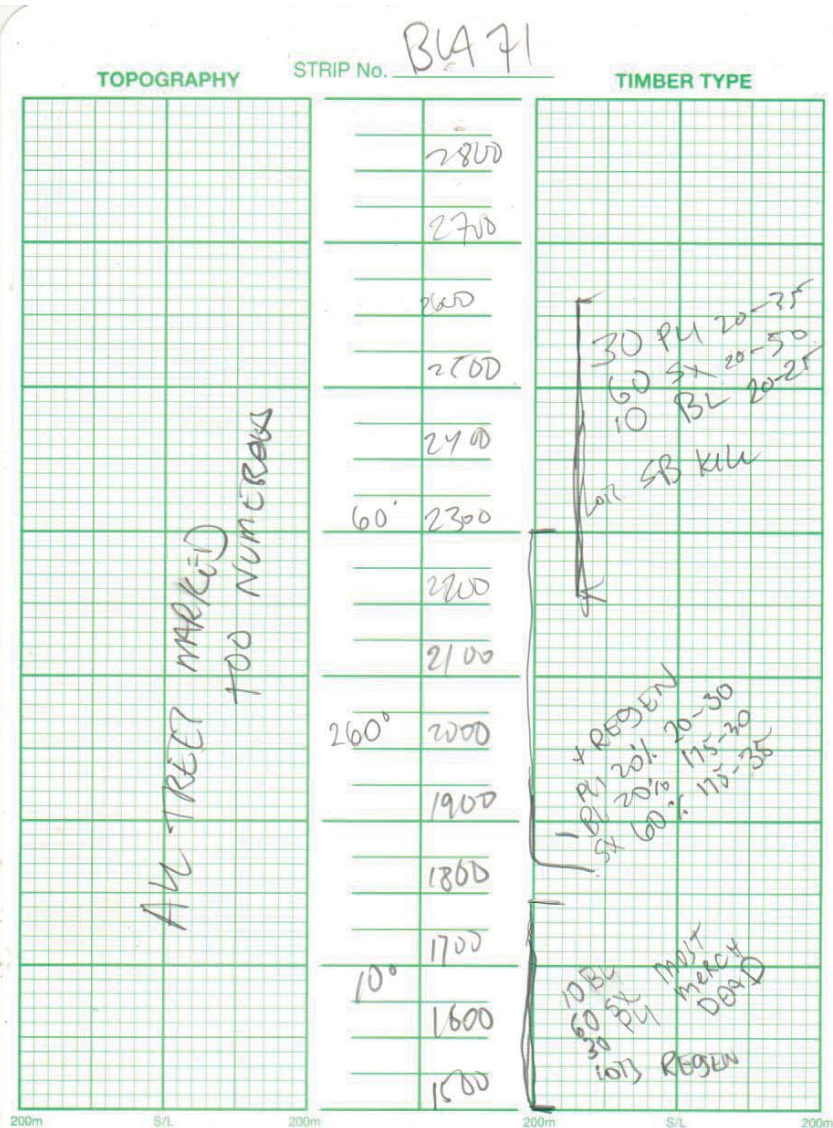
START STRIP: _____

JOB NO.: _____ DATE: **FEB 24**

CREW: **PATRICK PELLETIER**

REMARKS: _____

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



STRIP NO.: **BLA 71** DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: **FEB 24**

CREW: **PATRICK PELLETIER**

REMARKS: _____

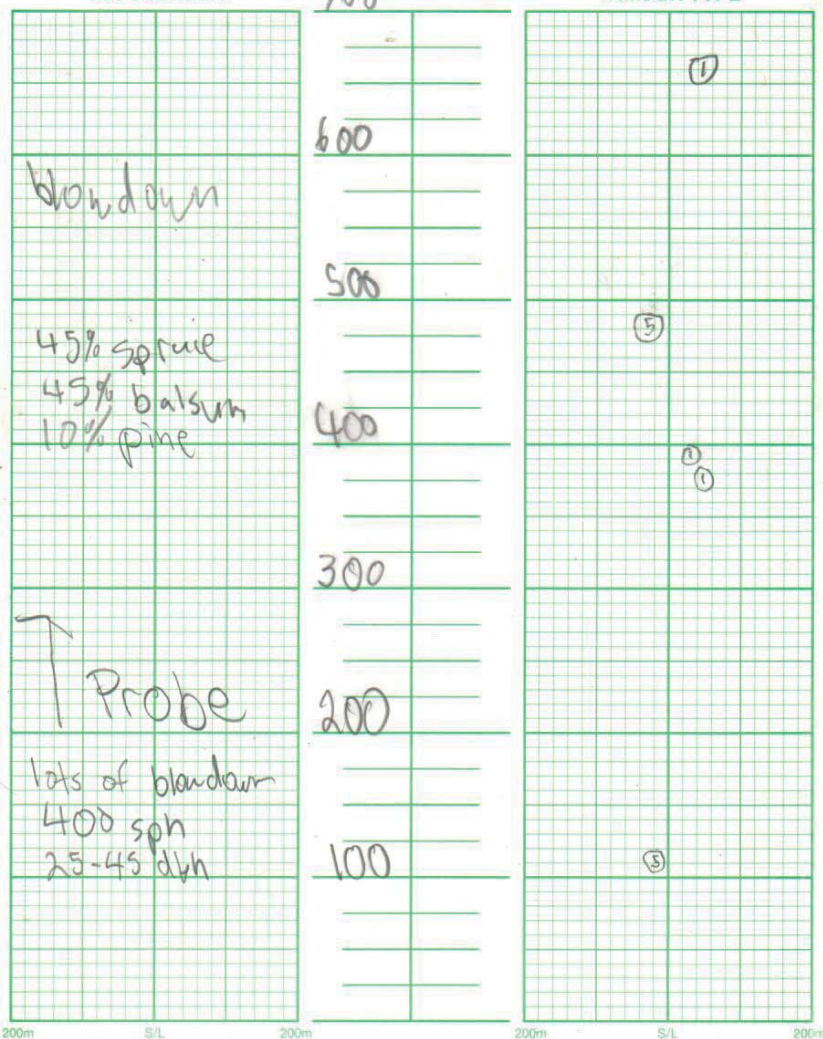
irl www.irlsupplies.com Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

BLA-071

TIMBER TYPE



STRIP NO.:

BLA-071
0-700

DIRECTION:

33°

START STRIP:

JOB NO.:

DATE:

Feb 22/16

CREW:

Blake B/Pat P

REMARKS:

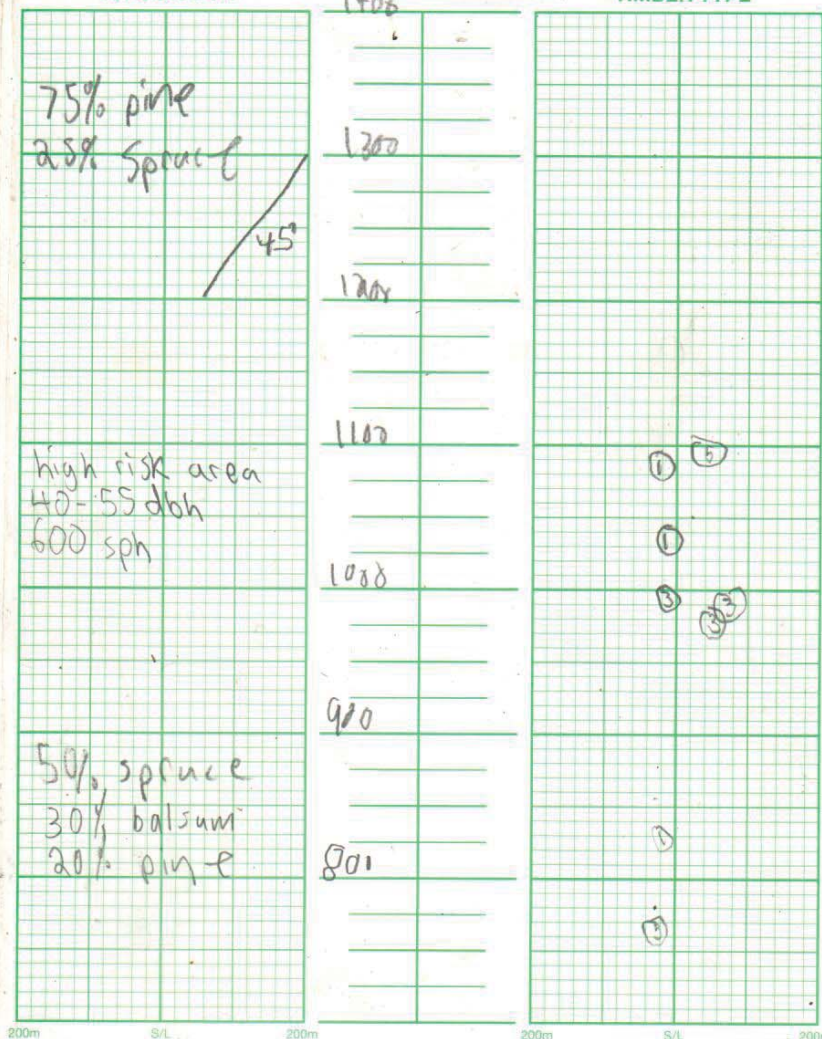
www.irisupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

BLA-071

TIMBER TYPE



STRIP NO.:

BLA-071
700-1400

DIRECTION:

33°

START STRIP:

JOB NO.:

DATE:

Feb 22/16

CREW:

Blake B

REMARKS:

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

TOPOGRAPHY STRIP No. BLA-071
2100

Bearing 358° 2000

65% spruce
20% pine
15% balsam

1000

1800

1700

down slope
20°

1600

95% pine
5% spruce

1500

Bearing 65°

TIMBER TYPE

①

①

②

③

200m S/L 200m

STRIP NO.: BLA-071 DIRECTION: 33°

START STRIP: _____

JOB NO.: _____ DATE: Feb 22/16

CREW: Blake B

REMARKS: _____

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TOPOGRAPHY STRIP No. BLA-071
2800

2700

2600

2500

2400

2360

END
2

2200

⑤

⑤

⑤

TIMBER TYPE

200m S/L 200m

STRIP NO.: BLA-071 DIRECTION: _____

START STRIP: _____

JOB NO.: 2100-2860 DATE: Feb 22/16

CREW: Blake B

REMARKS: _____

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STRIP No.

TIMBER TYPE

Hand-drawn site plan and elevation profile for a proposed road project.

Site Plan:

- Overall width: 200m
- Central road: CS x 6
- Proposed road: PR x 6
- North arrow pointing towards the top right.
- Labels: "more visible" near the proposed road, "CS x 6" and "PR x 6" near the roads.

Elevation Profile:

- Vertical axis labels (from top to bottom): 1300, 1200, 1100, 1000, 900, 800, 700, 600, 500, 400, 300, 200, 100, 00'.
- Horizontal axis labels (from left to right): 200m, S/L, 200m, 25mm, S/L, 200m.
- Profile description: "PROPOSED" and "REAR".
- Profile details: "5x BL 70-30", "60' PLI REGIOV x", "5x 60' BL 10' PLI 30'", "100' SPH 50-60' SH".

STRIP NO.: _____ DIRECTION: _____
 START STRIP: _____
 JOB NO.: _____ DATE: _____
 CREW: _____
 REMARKS: _____

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TOPOGRAPHY

STRIP No.

TIMBER TYPE

[illegible]

STRIP NO.: _____ DIRECTION: _____
 START STRIP: _____
 JOB NO.: _____ DATE: _____
 CREW: _____
 REMARKS: _____