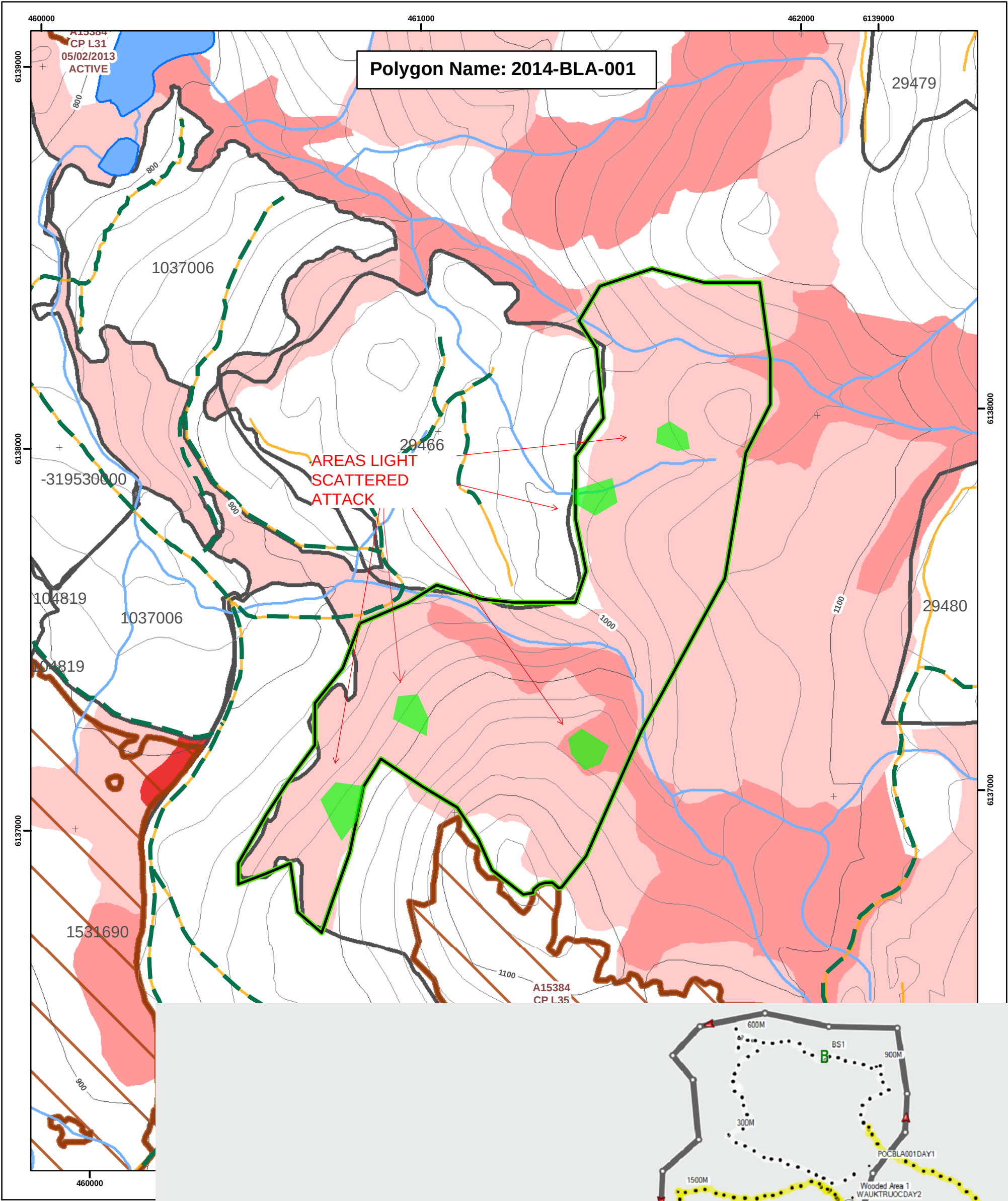




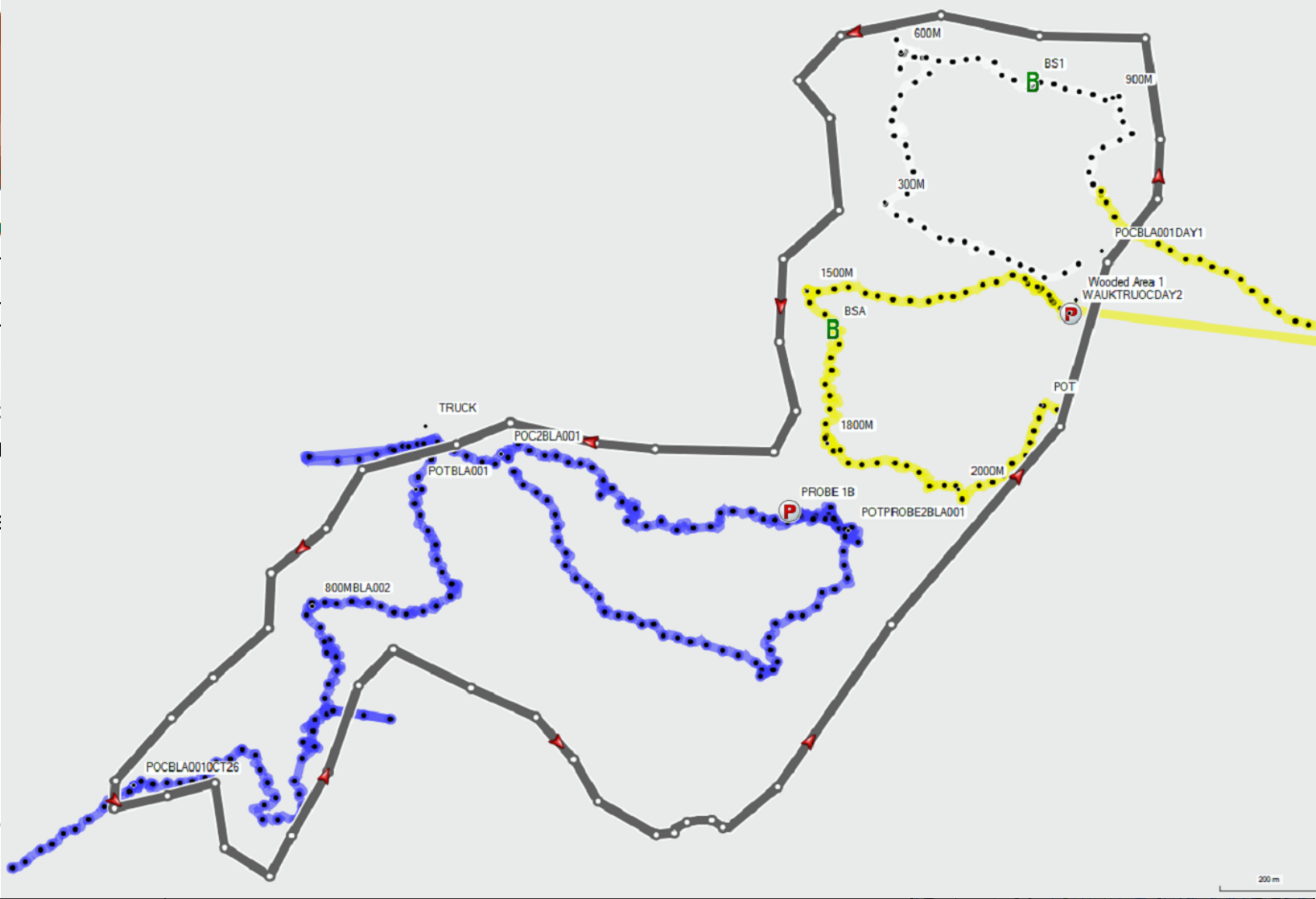


Ministry of
Forests, Lands and
Natural Resource C

Spruce Bark Bee Field Map

Polygon Name: 2014-BLA-001

Landscape Unit/BMU:	Blackwater
Region:	Omineca
District:	Mackenzie
Mapsheet:	093005
Hectares:	94
Scale:	1:10,000
When plotted on 11x17	
Coordinate System:	PCS Albers
Datum:	North American
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: 2014-BLA-001

HECTARES:

94.00

WALKTHROUGH DISTANCE:

4700

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

6 12.8%

SUMMARY OF CURRENT INFESTATION

Walkthrough estimate shows >10% of polygon has Code 1 attack. These areas are scattered throughout polygon mainly in areas with blowdown and gullies. Moderate attack density on trees that are hit with stand 50/50 average Spruce to balsam

LIGHT to MODERATE SCATTERED ATTACK.

ACCESS

Truck access to the west, Long quad and lots of saw work to access North East

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

Very steep slopes throughout polygon with a couple of draws running through. Polygon bounded to the west by old cutblock. Smaller DBH Spruce with about 50/50 Spruce Balsam Mix.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Moderate sized polygon, 94 hectares. Very light scattered attack noticed from walkthrough with attack located in areas with blowdown which was minimal.

INCIDENCE AND SEVERITY OF ATTACK

2 probe lines and one bark sample determined a moderate attack density and moderate mean larval density. It is quite scattered throughout.

RISK OF BEETLE SPREAD

Polygon has pockets of attack that are scattered throughout polygon with a moderate to high attack density.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access to the west but quite sloped throughout. Access to northeast is through old trails and required a lot of work to get into or close to via ATV.

RECOMMENDATIONS**OPTION 1****MONITOR**

With low sanitation and salvage rating and steeper operational constraints, monitor and schedule another Walkthrough 2016.

OPTION 2**TRAP TREES/ MONITOR**

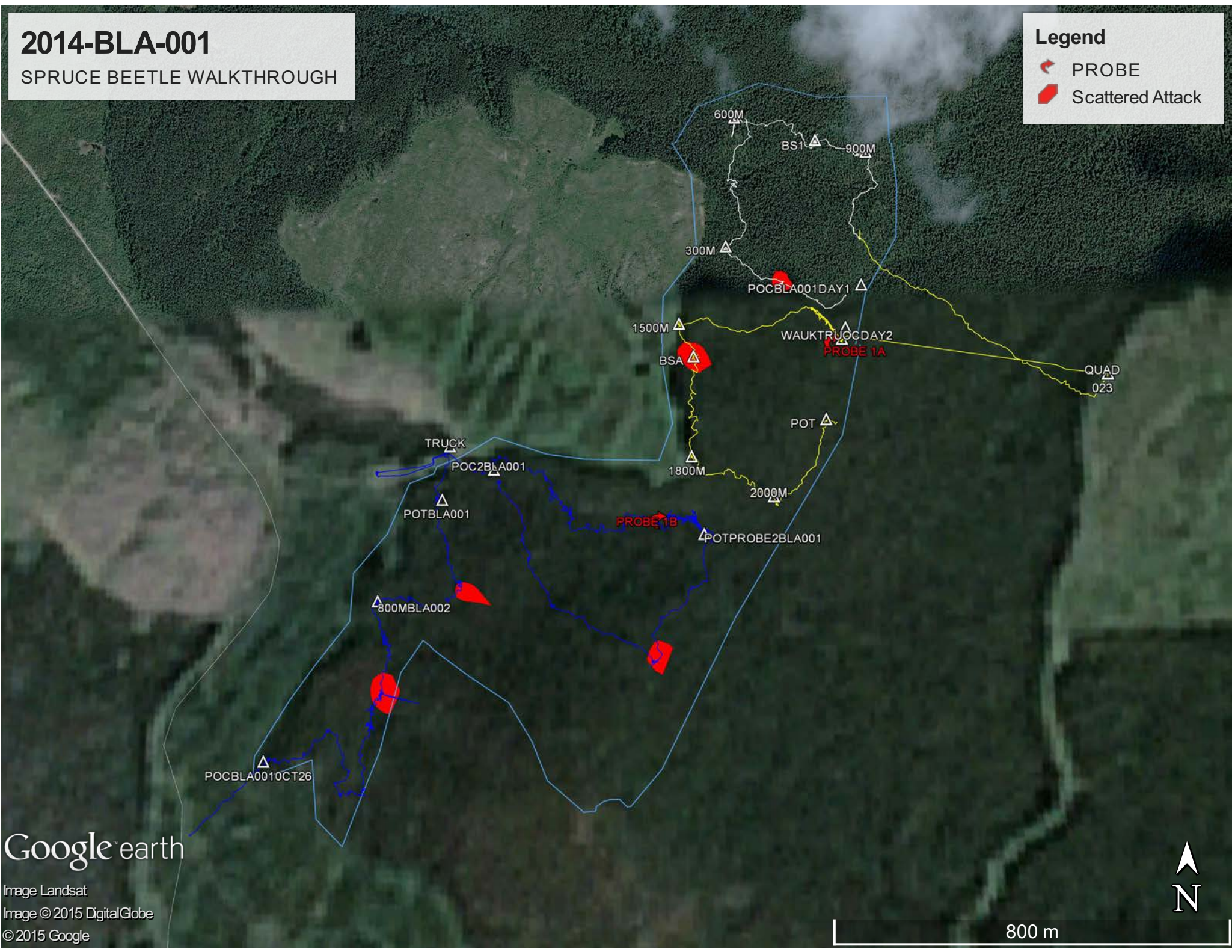
If operations in the area may want to hold infestation with Baits around cutblock to west.

2014-BLA-001

SPRUCE BEETLE WALKTHROUGH

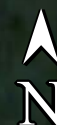
Legend

-  PROBE
-  Scattered Attack



Google earth

Image Landsat
Image © 2015 DigitalGlobe
© 2015 Google



800 m

Arbe

SPRUCE BEETLE PROBE CARD

LOCATION 10.4 0461754 6137808		BLA-001 Probe 1		PAGE	OF				
BEARING 310		DISTANCE 100m		STRIP WIDTH					
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	•••							BL
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		16	1						37
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 B61 = Bark Sample 1 60% 2 nd yr. l.c.									
CREW NAMES Aaron Colebant						DATE Y M D 2015 10 27			

Probe
Bla 001

SPRUCE BEETLE PROBE CARD

LOCATION 0421862 6137420		PAGE OF							
BEARING 1040	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								
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		25	2				9	46	
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
N	0	0	0	0	0				
S	0	0	0	0	0				
COMMENTS									
CREW NAMES Brandon Sparks						DATE 15 10 27			

Bark Sample

SPRUCE BEETLE PROBE CARD

LOCATION 104 0421862 6137778		PAGE OF							
BEARING N/A	DISTANCE N/A	STRIP WIDTH N/A							
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									
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
North	0	0	0	0	0				
South	0	0	0	0	0				
COMMENTS									
CREW NAMES Aaron Colebank						DATE 2015 10 27			

TOPOGRAPHY

STRIP No.

BLA-001

TIMBER TYPE

Flat	350	
60/40 Sw/bl	300	⑤
Flat		
60/40 bl/Sw	250	⑤
	200	
code (3) also (2)		⑤
70/30 bl/Sw	150	
30% Slope		
60/40 bl/Sw	100	
30% Slope		
70/30 bl/Sw	50	
262° bearing	0	

STRIP NO.:

BLA-001

DIRECTION:

262°

START STRIP:

10 u 0461801

JOB NO.:

BLA-001

DATE:

Oct 26, 27, 2015

CREW:

Narm Colebant
Heavy bl presencewww.irisupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

BLA-001

TIMBER TYPE

70/30 bl/Sw	700	
70/30 bl/Sw	650	⑤
82° bearing	600	
60/40 bl/Sw	550	
30% Slope		
70/30 bl/Sw	500	
30% Slope		
60/40 bl/Sw	450	⑤
60/40 bl/Sw	400	
20% Slope		
60/40 bl/Sw	350	⑤

STRIP NO.:

DIRECTION:

START STRIP:

JOB NO.:

DATE:

CREW:

REMARKS:

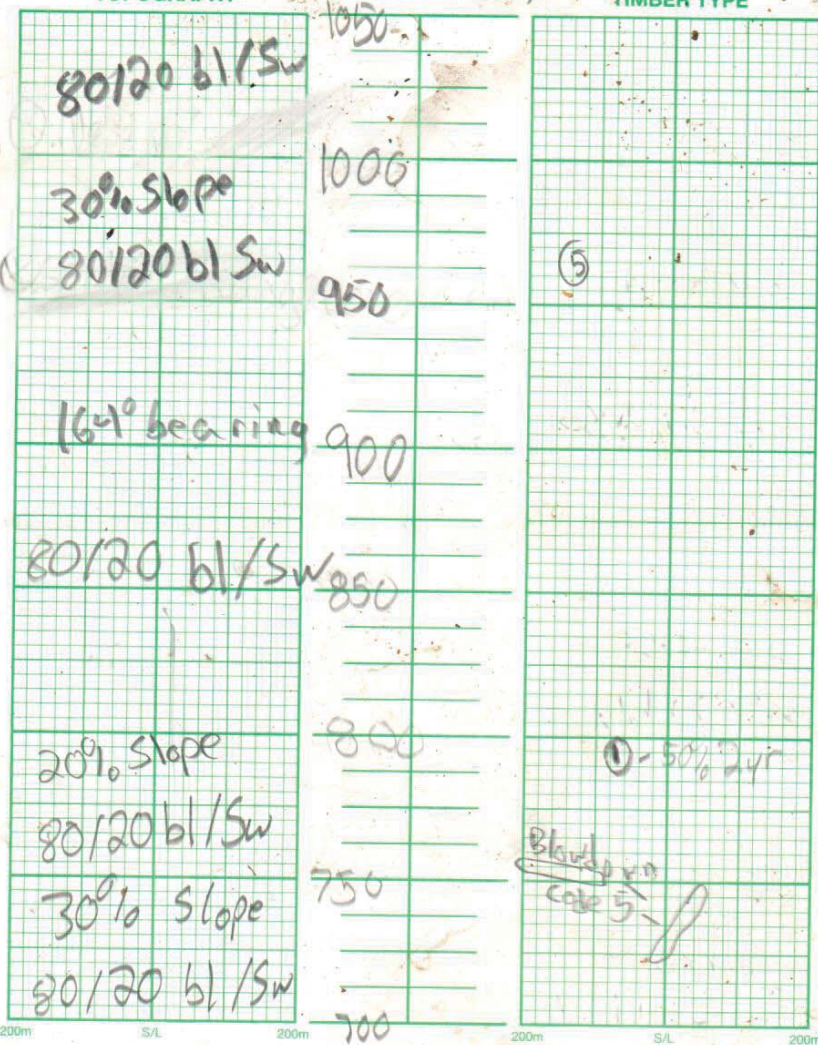
www.irisupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

BLA-001

TIMBER TYPE



STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: _____

CREW: _____

REMARKS: _____



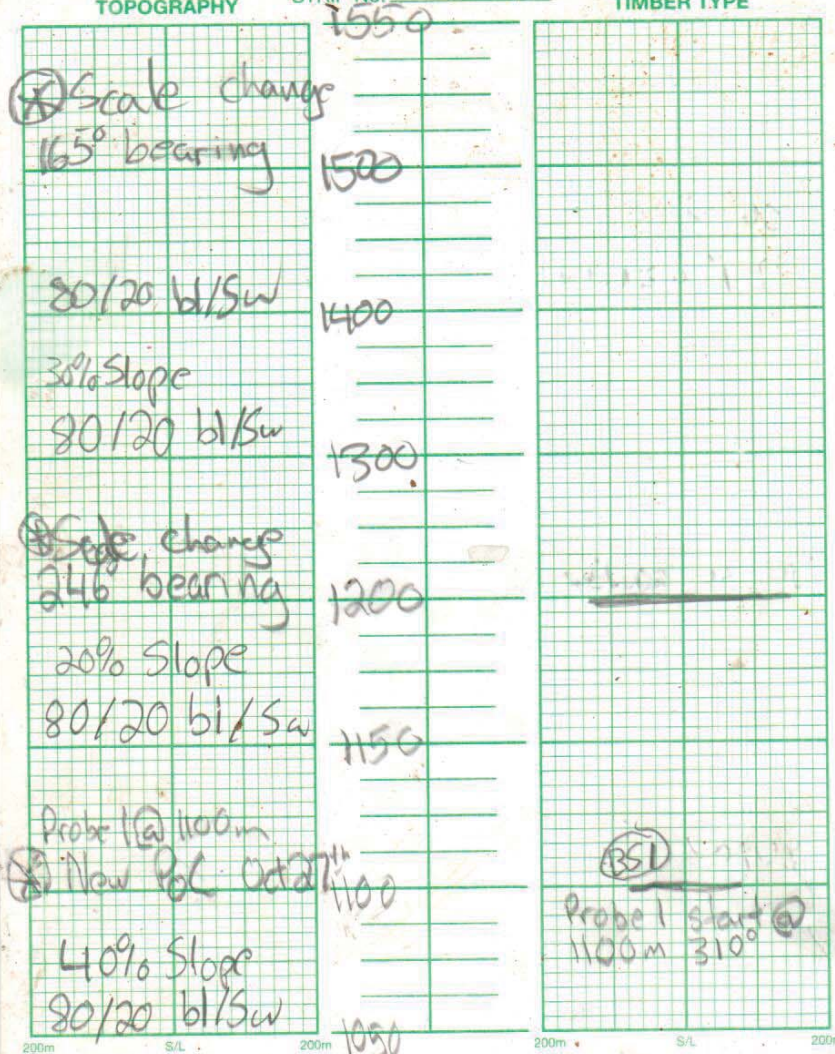
www.irisupplies.com

TOPOGRAPHY

STRIP No.

BLA-001

TIMBER TYPE



STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: _____

CREW: _____

REMARKS: _____

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Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

BLA-001

TIMBER TYPE

60/40 bl/Sw

1900

60/40 Sw/b

1850

20% Slope

77° bearing

1800

60/40 Sw/b

1750

Hock - 20m right
lots of blowdown

1700

80/20 Sw/b

1650

80/20 Sw/bl

1600

60/40 bl/Sw

1550

200m

S/L

200m

200m

S/L

200m

STRIP NO.:

DIRECTION:

START STRIP:

JOB NO.:

DATE:

CREW:

REMARKS:

Bl blowdown infected


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TOPOGRAPHY

STRIP No.

TIMBER TYPE

done

2200

30% Slope

60/40 bl/Sw

2150

20% Slope

10/30 bl/Sw

2100

70/30 bl/Sw

2050

bearing

2000

20% Slope

70/30 bl/Sw

1950

20% Slope

60/40 bl/Sw

1900

200m

S/L

200m

200m

S/L

200m

STRIP NO.:

DIRECTION:

START STRIP:

JOB NO.:

DATE:

CREW:

REMARKS:

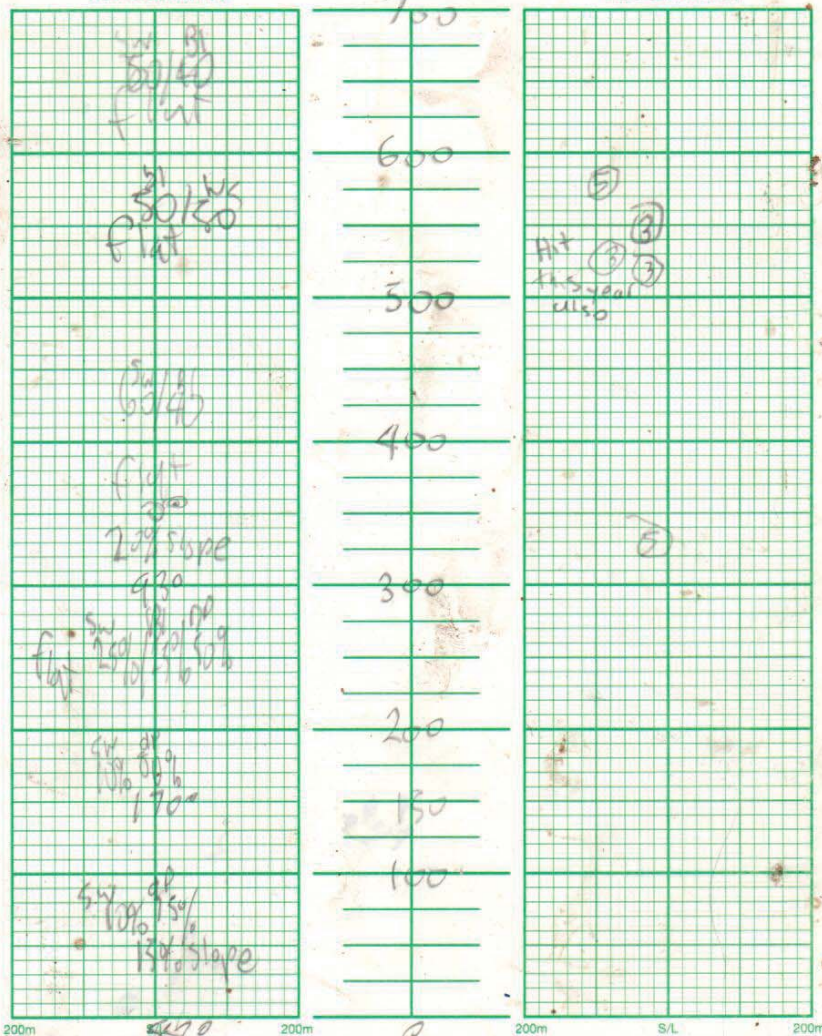

www.irisupplies.com
 Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

Bla 001

TIMBER TYPE



STRIP NO.:

Bla 001

DIRECTION:

58°

START STRIP:

0-760 04604516136891

JOB NO.:

DATE:

Oct 26/2015

CREW:

Brandon Sparks

REMARKS:



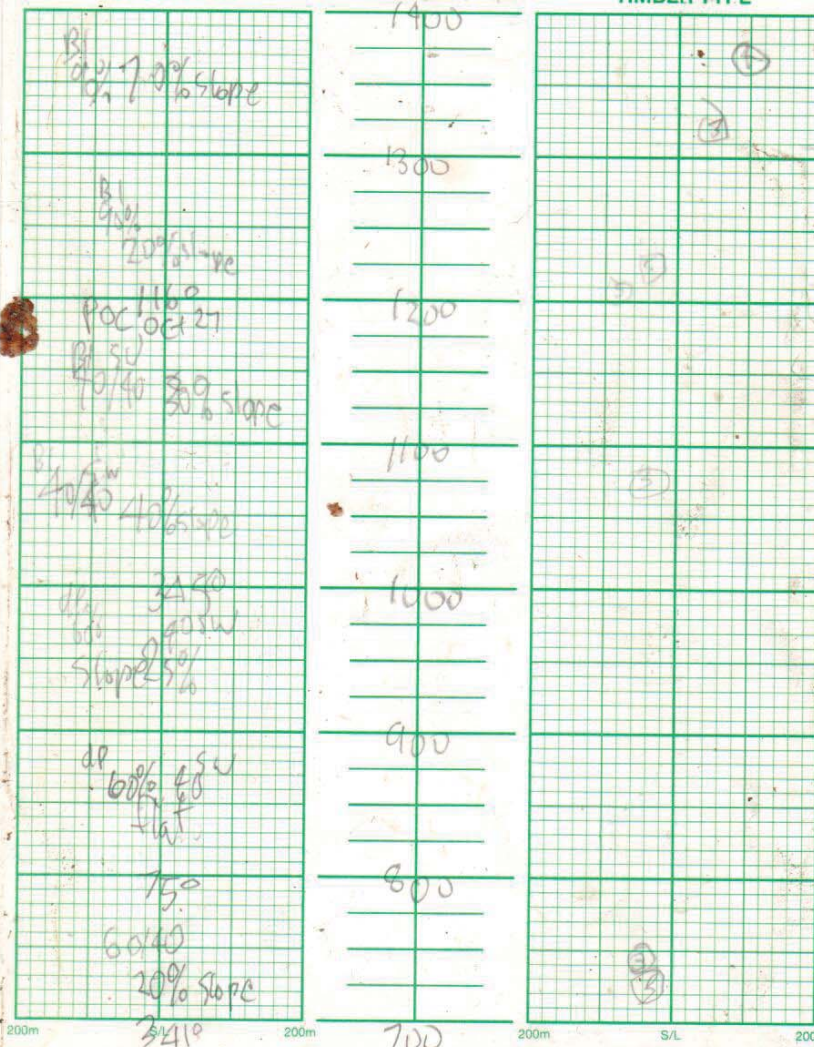
www.irlsupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

Bla 001

TIMBER TYPE



STRIP NO.:

Bla 001

DIRECTION:

341°, 35°, 345°, 16°

START STRIP:

0460465437535

JOB NO.:

DATE:

Oct 26/2015

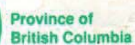
CREW:

Brandon Sparks

REMARKS:



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Ph: 1-800-663-6843

Ministry of
Forests[illegible]

C.P. No.	BLOCK	START OF STRIP
DIRECTION		
JOB NO.		DATE
CREW		
REMARKS		

FS 375 HVA 92/01

Ministry of
Forests

C.P. No.	Block	Black
DIRECTION	316	START OF STRIP
JOB NO.		DATE Oct 27
CREW	Brandon Sparks	
REMARKS		

FC 375 HVA 92/01