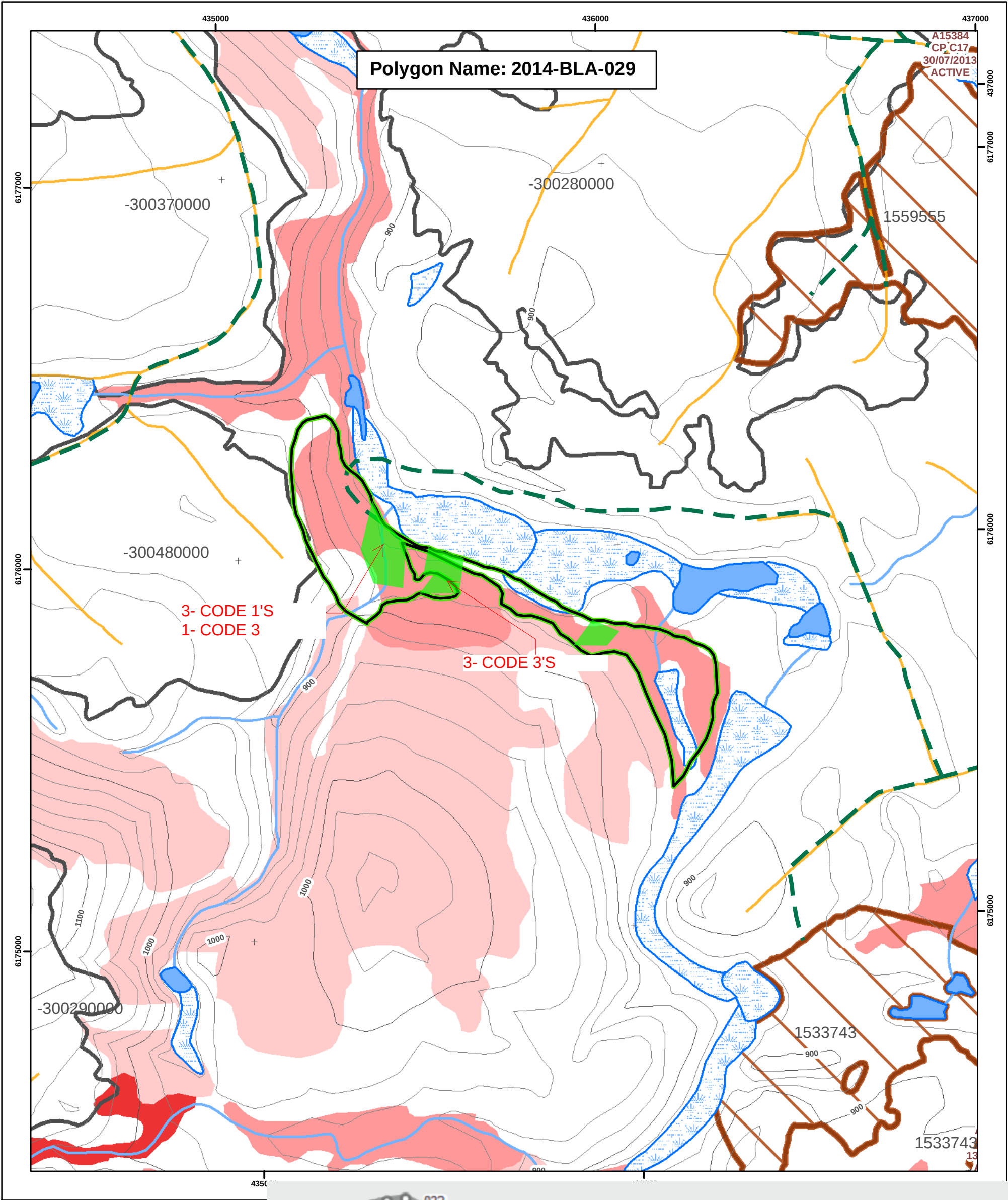




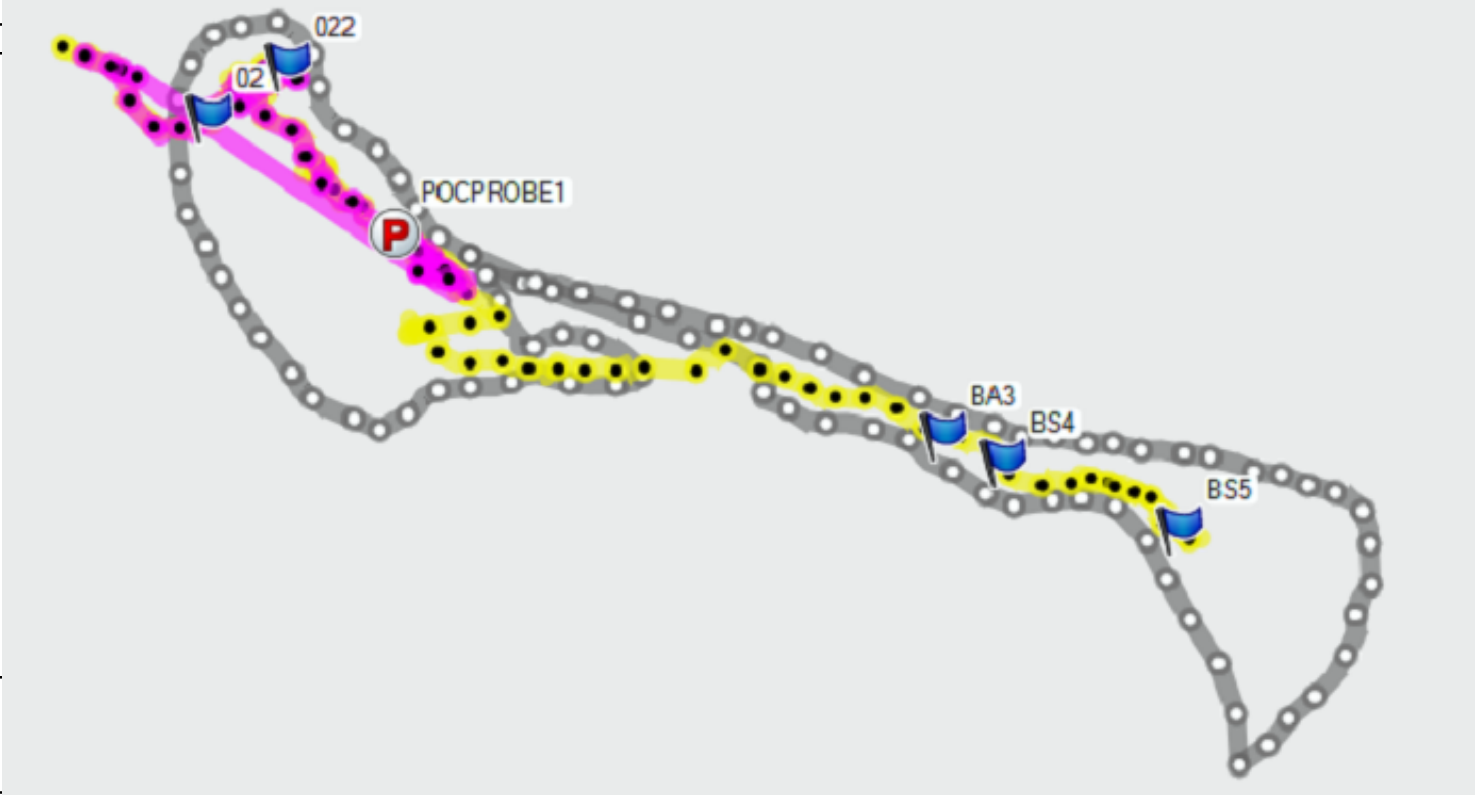


Ministry of
Forests, Lands and
Natural Resource Operations

Spruce Bark Beetle Field Map

Polygon Name: 2014-BLA-029

Landscape	Blackwater
Unit/BMU:	Blackwater
Region:	Omineca
District:	Mackenzie
Mapsheet:	093N09
Hectares:	19.03
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

WALKTHROUGH DISTANCE: **1300****SPRUCE BARK BEETLE REPORT
FH16DMK010**

POLYGON: BLA-029

HECTARES: **19.03**ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4)**3 23.1%****SUMMARY OF CURRENT INFESTATION**

Walkthrough shows 30% of pixels infested. Of these many are Code 1's on a 1 and 2 year cycle. Polygon has difficult access and crew walked in from Road on West and walked downhill into polygon. Fairly flat throughout and steeper slope on west side. Trees sampled have a moderate attack and mean larval density.

MODERATE SCATTERED ATTACK**ACCESS**

Access ATV and Crews walked in to the north of the Polygon.

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

North section of Polygon moderate slope, flat in the rest. Polygon surrounded to the north and east by swamp.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Moderate scattered attack with Mix of code 1s and 3s (Hit 2014 and 2015) Did 3 additional bark samples to confirm trees on a 1 and 2 year life cycle.

INCIDENCE AND SEVERITY OF ATTACK

1 probe line established, 3 bark samples. Of the 3 samples, showing moderate attack density and all showing beetle on a 1 and 2 year life cycle. Attacked areas are scattered in the low lying areas along creek and swamp edge.

RISK OF BEETLE SPREAD

Moderate rate of spread as there is a moderate attack density, 60% Spruce stand to the south.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

There is a trail identified coming into the north of Polygon that crosses a swamp. Crew walked in from road on west to the top of the hill and down into polygon. Couple drainages within polygon.

RECOMMENDATIONS**OPTION 1****PROBE/ TRAP TREES**

Moderate scattered attack. Recommend Probe to identify the exact areas of infestation. While awaiting Harvesting Plans, recommend holding current infestation with trap trees.

OPTION 2**CRUISING LOGGING**

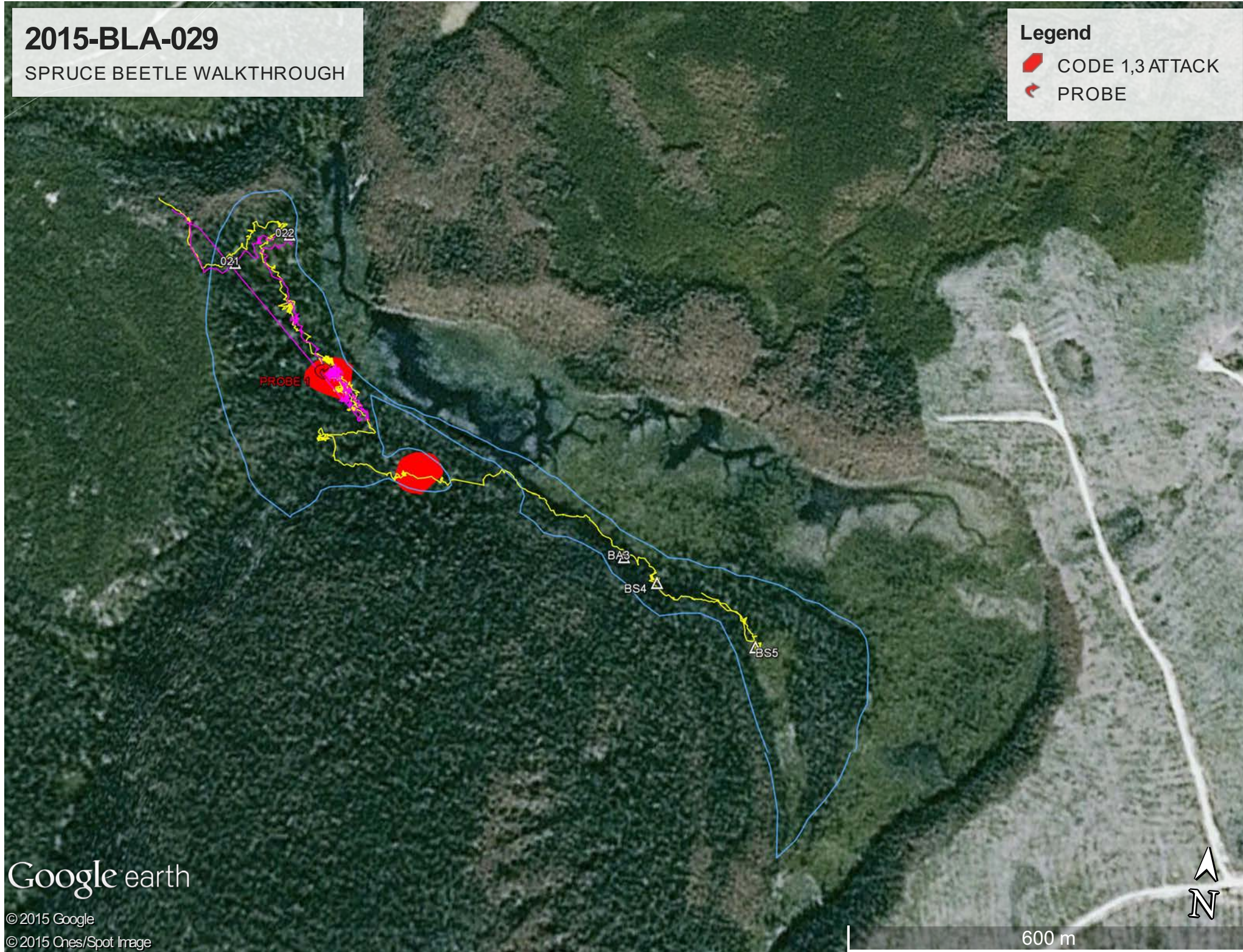
Schedule Cruising/ Logging if operationally viable with access constraints.

2015-BLA-029

SPRUCE BEETLE WALKTHROUGH

Legend

-  CODE 1,3 ATTACK
-  PROBE



There is a trail identified coming into the north of Polygon that crosses a swamp. Crew walked in from road on west to the top of the hill and down into polygon. Couple drainages within polygon.



BEETLE PROBE CARD

LOCATION	BLA-029 RC 0935352 6176091		ELEVATION	LATITUDE	PAGE	OF				
BEARING	STRIP LINE NO	STRIP WIDTH	DISTANCE	BEETLE SPECIES						
137°	Probe 1	100m	10m	☒ SB ☐ MPB ☐ DFB						
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
									MAIN	OTHER
12.5 - 17.4	2.0	N/A							N/A	N/A
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		13	3	1	2	34				
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
N										
S										
COMMENTS										
N side of 2 wood borer larvae found OS: 98% 2yr life cycle										
CREW NAMES						DATE				
Aaron Colebank Brandon Sparks						Y M D 15 10 15				

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



BEETLE PROBE CARD

LOCATION	Bark Sample 4		ELEVATION	LATITUDE	PAGE	OF				
BEARING	STRIP LINE NO	STRIP WIDTH	DISTANCE	BEETLE SPECIES						
94°				☐ SB ☐ MPB ☐ DFB						
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
									MAIN	OTHER
12.5 - 17.4	2.0									
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			
S										
N										
COMMENTS										
CREW NAMES						DATE				
Brandon Sparks Aaron Colebank						Y M D 15 10 15				

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



BEETLE PROBE CARD

LOCATION B33		ELEVATION		LATITUDE 0935269		PAGE 1 OF 1				
BEARING 100°	STRIP LINE NO	STRIP WIDTH	DISTANCE	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									
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	2	2	2	2	2					
S	1	1	1	1	1					
COMMENTS										
CREW NAMES Brandon Sparks Aaron Colebank						DATE 15 10 15				

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



BEETLE PROBE CARD

code 4 and 1

LOCATION B35		ELEVATION		LATITUDE 0434072		PAGE 1 OF 1				
BEARING 94°	STRIP LINE NO	STRIP WIDTH	DISTANCE	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									
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	1	1	1	1	1					
South	1	1	1	1	1					
COMMENTS										
CREW NAMES Brandon Sparks Aaron Colebank						DATE 10 15				

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

TOPOGRAPHY

STRIP No.

BLA029

TIMBER TYPE

200m	S/L	200m	200m	S/L	200m
200m	S/L	200m	200m	S/L	200m

STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: _____

CREW: _____

REMARKS: _____

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