



**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT  
FH16DMK016,017**

POLYGON: 2015-PAR-030

HECTARES:

71.70

WALKTHROUGH DISTANCE:

5700

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

24 42.1%

**SUMMARY OF CURRENT INFESTATION**

Walkthrough shows 40% of pixels infested and all are in the north portion of polygon. Has some steeper slopes but 24 pixels infested, some very highly hit and others lightly hit. Probes represent low end of attack, are areas heavier hit and open stand with lower DBH Spruce being attacked. All attack found on 1st year of 1 2 year cycle with flight expected in 2017.

HEAVY ATTACK NORTH POLYGON.

**ACCESS**

Access was on unplowed road to middle of polygon. Truck parked on Parsnip and Sled 3.5km

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

Steep slopes rising east to west, 0-50%. Open Stand of mix Spruce, Balsam and Aspen.

**SIZE, BOUNDARY and PATTERN OF INFESTATION**

North half of polygon extreme attack with all every pixel pretty much hit in top portion. All Code 1 attack on first year of a 2 year cycle. Mixture of Code 1 and Code 5 attack.

**INCIDENCE AND SEVERITY OF ATTACK**

Very high incidence and severity although 2 probe lines not really representative as has a light sanitation rating due to it being an open stand and only 1 of the 2 probe lines having code 1. Very highly hit area on relatively small DBH Spruce trees.

**RISK OF BEETLE SPREAD**

Polygon surrounded by timber and has a definite high risk of spread.

**ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES**

Good access, Steeper slopes

**RECOMMENDATIONS****OPTION 1****CRUISE/HARVEST**

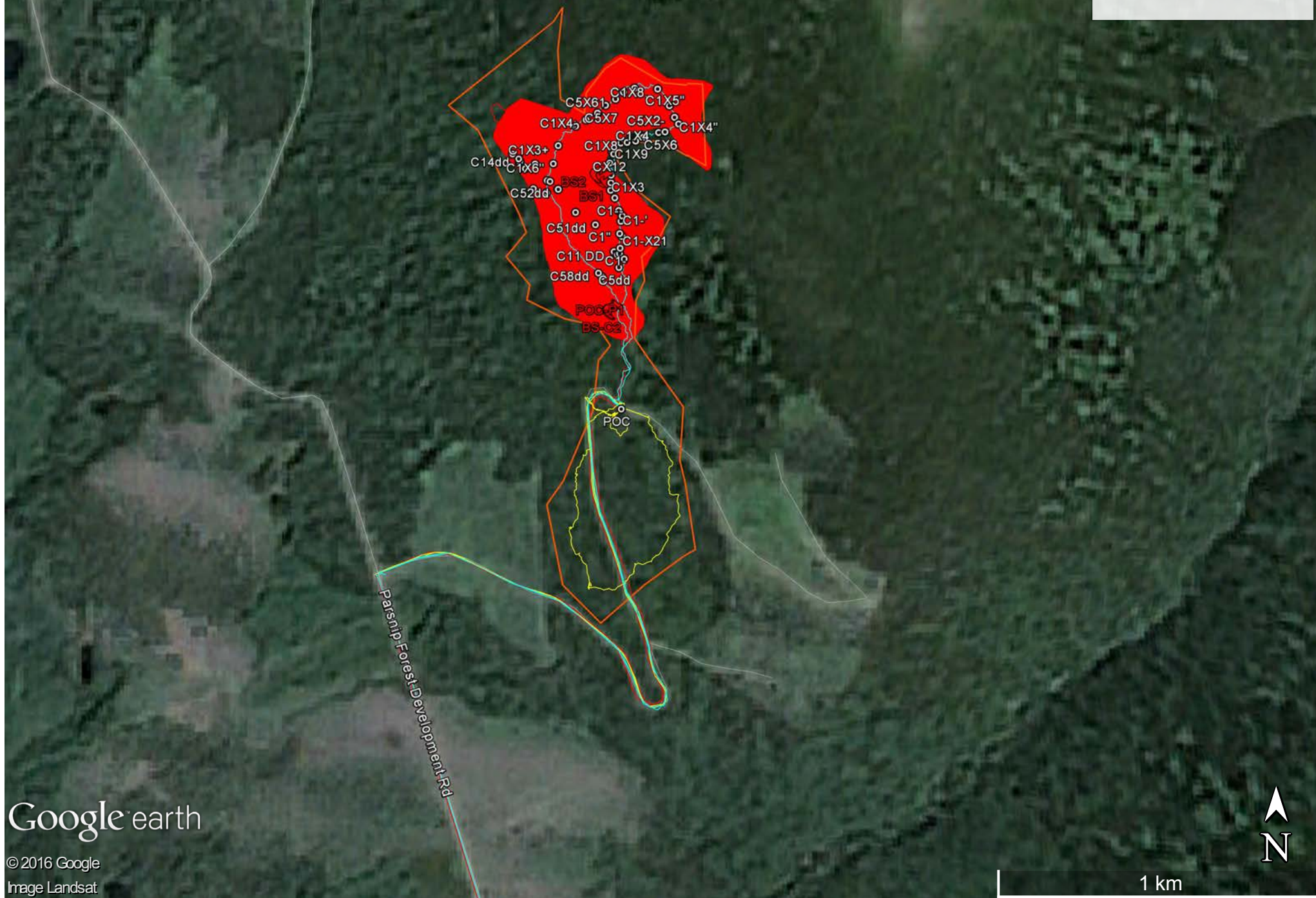
Cruise to identify areas IN NORTH of polygon requiring harvesting to determine severity and better define area of attack as may be outside polygon as well. The NORTH of Polygon has heavier attack with significant recent attack and older attack. The attacked trees are in Year 1 of a 2 year life cycle with majority of flight expected in 2017. It is an open stand with many code 5's throughout as well. SANITATION RATING NOT REFLECTIVE OF ATTACK. NEEDS TO BE TREATED. WALKTHROUGH CARDS REFLECT THIS

**OPTION 2****TRAP TREES/ MONITOR**

If harvesting due to low volumes or steeper slopes, need to lay trap tree trails throughout in 2016 prior to flight. Could schedule another walkthrough late fall 2016, early 2017 to reevaluate.

## SPRUCE BEETLE WALKTHROUGHS

HEAVY ATTACK  
PROBES





\* BARK SAMPLE 1 ON BACK

PROBE 1



# BEETLE PROBE CARD

| LOCATION                 |                     | 0487101                 |                                    | ELEVATION      | 973               |                        | LATITUDE   | X   |                    | PAGE  | OF    |
|--------------------------|---------------------|-------------------------|------------------------------------|----------------|-------------------|------------------------|------------|-----|--------------------|-------|-------|
| PAR.030                  |                     | 6148115                 |                                    | 973            | X                 |                        | SB         | MPB | DFB                |       |       |
| BEARING                  | STRIP LINE NO       | STRIP WIDTH             | DISTANCE                           | BEETLE SPECIES |                   |                        |            |     |                    |       |       |
| 004                      | 1                   | 10                      | 100                                | X 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                 |                         |                                    |                |                   |                        |            |     |                    | BI    | ASPER |
| 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                   |                     | 16                      | 1                                  | 1              |                   |                        |            |     |                    | 9     | 9     |
| BARK SAMPLES 15cm x 15cm | NO. ENTRANCE HOLES  | NO. PARENT ADULTS       | NO. LARVAE                         | NO. PUPAE      | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN |            |     |                    |       |       |
|                          |                     |                         |                                    |                |                   | Attacked               | Unattacked |     |                    |       |       |
| 2                        | 2                   | 1                       | 5                                  | 1              | 1                 |                        |            |     |                    |       |       |
| 5                        | 1                   | 1                       | 1                                  | 1              | 1                 |                        |            |     |                    |       |       |
| COMMENTS                 |                     |                         |                                    |                |                   |                        |            |     |                    |       |       |
| 0 - BS<br>- open stand   |                     |                         |                                    |                |                   |                        |            |     |                    |       |       |
| CREW NAMES               |                     |                         |                                    |                |                   | DATE                   |            |     |                    |       |       |
| James / Darryl           |                     |                         |                                    |                |                   | 16 10 2022             |            |     |                    |       |       |

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



# BEETLE PROBE CARD

| LOCATION                               |                     | PAR 030                 |                                    | ELEVATION      | 0487070           |                        | LATITUDE   | 6147717 |                    | PAGE   | OF |
|----------------------------------------|---------------------|-------------------------|------------------------------------|----------------|-------------------|------------------------|------------|---------|--------------------|--------|----|
| PAR.030                                |                     | 6147717                 |                                    | 0487070        | X                 |                        | SB         | MPB     | DFB                |        |    |
| BEARING                                | STRIP LINE NO       | STRIP WIDTH             | DISTANCE                           | BEETLE SPECIES |                   |                        |            |         |                    |        |    |
|                                        | 2                   | 10m                     | 100m                               | X 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                                 |                     | 11                      |                                    |                |                   |                        |            |         |                    | 17     |    |
| BARK SAMPLES 15cm x 15cm               | NO. ENTRANCE HOLES  | NO. PARENT ADULTS       | NO. LARVAE                         | NO. PUPAE      | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN |            |         |                    |        |    |
|                                        |                     |                         |                                    |                |                   | Attacked               | Unattacked |         |                    |        |    |
| 2                                      | 2                   | 1                       |                                    |                |                   |                        |            |         |                    |        |    |
| 3                                      | 1                   |                         |                                    |                |                   |                        |            |         |                    |        |    |
| COMMENTS                               |                     |                         |                                    |                |                   |                        |            |         |                    |        |    |
| Many balsams with fairly small spruce. |                     |                         |                                    |                |                   |                        |            |         |                    |        |    |
| CREW NAMES                             |                     |                         |                                    |                |                   | DATE                   |            |         |                    |        |    |
| Blake B                                |                     |                         |                                    |                |                   | 16 10 2022             |            |         |                    |        |    |

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



BS 1

## BEETLE PROBE CARD

|                                            |                     |                         |                                    |                                                                                                         |                   |                           |    |  |                    |       |
|--------------------------------------------|---------------------|-------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------|---------------------------|----|--|--------------------|-------|
| LOCATION                                   | 0487081<br>6148524  | ELEVATION               | 1040                               | LATITUDE                                                                                                |                   | PAGE                      | OF |  |                    |       |
| BEARING                                    | STRIP LINE NO       | STRIP WIDTH             | DISTANCE                           | BEETLE SPECIES<br><input type="checkbox"/> SB <input type="checkbox"/> MPB <input type="checkbox"/> 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<br>15cm x 15cm                | NO. ENTRANCE HOLES  | NO. PARENT ADULTS       | NO. LARVAE                         | NO. PUPAE                                                                                               | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN    |    |  |                    |       |
|                                            |                     |                         |                                    |                                                                                                         |                   | Attacked Unattacked       |    |  |                    |       |
| P                                          | 3                   | /                       | 5                                  | /                                                                                                       | /                 |                           |    |  |                    |       |
| S                                          | 1                   | /                       | 1                                  | /                                                                                                       | /                 |                           |    |  |                    |       |
| COMMENTS<br>- minimal attack on South side |                     |                         |                                    |                                                                                                         |                   |                           |    |  |                    |       |
| CREW NAMES<br>James Kelly                  |                     |                         |                                    |                                                                                                         |                   | DATE<br>Y M D<br>16 02 02 |    |  |                    |       |

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



PAR - 030



BS 2

## BEETLE PROBE CARD

|                             |                     |                         |                                    |                                                                                                                    |                   |                           |    |  |                    |       |
|-----------------------------|---------------------|-------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------|----|--|--------------------|-------|
| LOCATION                    | 0487065<br>6148549  | ELEVATION               | 1051                               | LATITUDE                                                                                                           |                   | PAGE                      | OF |  |                    |       |
| BEARING                     | STRIP LINE NO       | STRIP WIDTH             | DISTANCE                           | BEETLE SPECIES<br><input checked="" type="checkbox"/> SB <input type="checkbox"/> MPB <input type="checkbox"/> 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<br>15cm x 15cm | NO. ENTRANCE HOLES  | NO. PARENT ADULTS       | NO. LARVAE                         | NO. PUPAE                                                                                                          | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN    |    |  |                    |       |
|                             |                     |                         |                                    |                                                                                                                    |                   | Attacked Unattacked       |    |  |                    |       |
| N                           | 2                   | /                       | 7                                  | /                                                                                                                  | /                 |                           |    |  |                    |       |
| S                           | 2                   | /                       | 5                                  | /                                                                                                                  | /                 |                           |    |  |                    |       |
| COMMENTS                    |                     |                         |                                    |                                                                                                                    |                   |                           |    |  |                    |       |
| CREW NAMES<br>James Kelly   |                     |                         |                                    |                                                                                                                    |                   | DATE<br>Y M D<br>16 02 02 |    |  |                    |       |

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



# BEETLE PROBE CARD

PAR-030 BS 3

|                             |                     |                         |                                    |                                                                                                  |                   |                        |            |      |                    |       |
|-----------------------------|---------------------|-------------------------|------------------------------------|--------------------------------------------------------------------------------------------------|-------------------|------------------------|------------|------|--------------------|-------|
| LOCATION                    |                     | 0487076<br>6148598      |                                    | ELEVATION                                                                                        | 1070              |                        | LATITUDE   | PAGE | OF                 |       |
| BEARING                     | STRIP LINE NO       | STRIP WIDTH             | DISTANCE                           | BEETLE SPECIES                                                                                   |                   |                        |            |      |                    |       |
|                             |                     |                         |                                    | <input checked="" type="checkbox"/> SB <input type="checkbox"/> MPB <input type="checkbox"/> 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<br>15cm x 15cm | NO. ENTRANCE HOLES  | NO. PARENT ADULTS       | NO. LARVAE                         | NO. PUPAE                                                                                        | NO. CALLOW ADULTS | FRESH (GREEN) BLOWDOWN |            |      |                    |       |
|                             |                     |                         |                                    |                                                                                                  |                   | Attacked               | Unattacked |      |                    |       |
| P                           | 3                   | /                       | 4                                  | /                                                                                                | /                 |                        |            |      |                    |       |
| S                           | 2                   | /                       | 3                                  | /                                                                                                | /                 |                        |            |      |                    |       |
| COMMENTS                    |                     |                         |                                    |                                                                                                  |                   |                        |            |      |                    |       |
| CREW NAMES                  |                     |                         |                                    |                                                                                                  |                   | DATE                   |            |      |                    |       |
| James Kelly                 |                     |                         |                                    |                                                                                                  |                   | Y                      | M          | D    |                    |       |
|                             |                     |                         |                                    |                                                                                                  |                   | 16                     | 02         | 02   |                    |       |



## COMPASS AND TRAVERSE SHEET

| TOPOGRAPHY            |     | TIMBER TYPE |  |
|-----------------------|-----|-------------|--|
| Bearing 62°           | 600 |             |  |
|                       | 500 |             |  |
|                       | 400 |             |  |
| 9 to 10 Balsam Spruce | 300 |             |  |
|                       | 200 |             |  |
|                       | 100 |             |  |
| down slope 15°        | 0   |             |  |

C.P. No. 207°  
DIRECTION 207°  
JOB NO. PAR 030  
CREW Blake B / darryl / james  
REMARKS

BLOCK  
START OF STRIP 0-600m  
DATE Feb 2/16



## COMPASS AND TRAVERSE SHEET

| TOPOGRAPHY |     | TIMBER TYPE |  |
|------------|-----|-------------|--|
| EXP 10     | 600 |             |  |
|            | 500 |             |  |
|            | 400 |             |  |
|            | 300 |             |  |
|            | 200 |             |  |
|            | 100 |             |  |
|            | 0   |             |  |

C.P. No. 207°  
DIRECTION 207°  
JOB NO. PAR-030  
CREW Blake / darryl / james  
REMARKS

BLOCK  
START OF STRIP 700-1200  
DATE Feb 2/16

| TOPOGRAPHY | STRIP No. 2 | TIMBER TYPE |
|------------|-------------|-------------|
| S 6 B 4    | 700         |             |
|            | 600         |             |
| 8%         | 500         | C5, C5      |
|            | 400         | C1          |
| S 6 B 4    | 300         | C5          |
|            | 200 - 330°  | C1          |
| 8%         | 100         | C5          |
| S 5 B 5    | 0           | 351°        |

STRIP NO.: 2 DIRECTION: 351°, 330°, 219°, 145°  
 START STRIP: 0  
 JOB NO.: PAR-30 DATE: FEB. 2, 2016  
 CREW: JD, JJ  
 REMARKS:



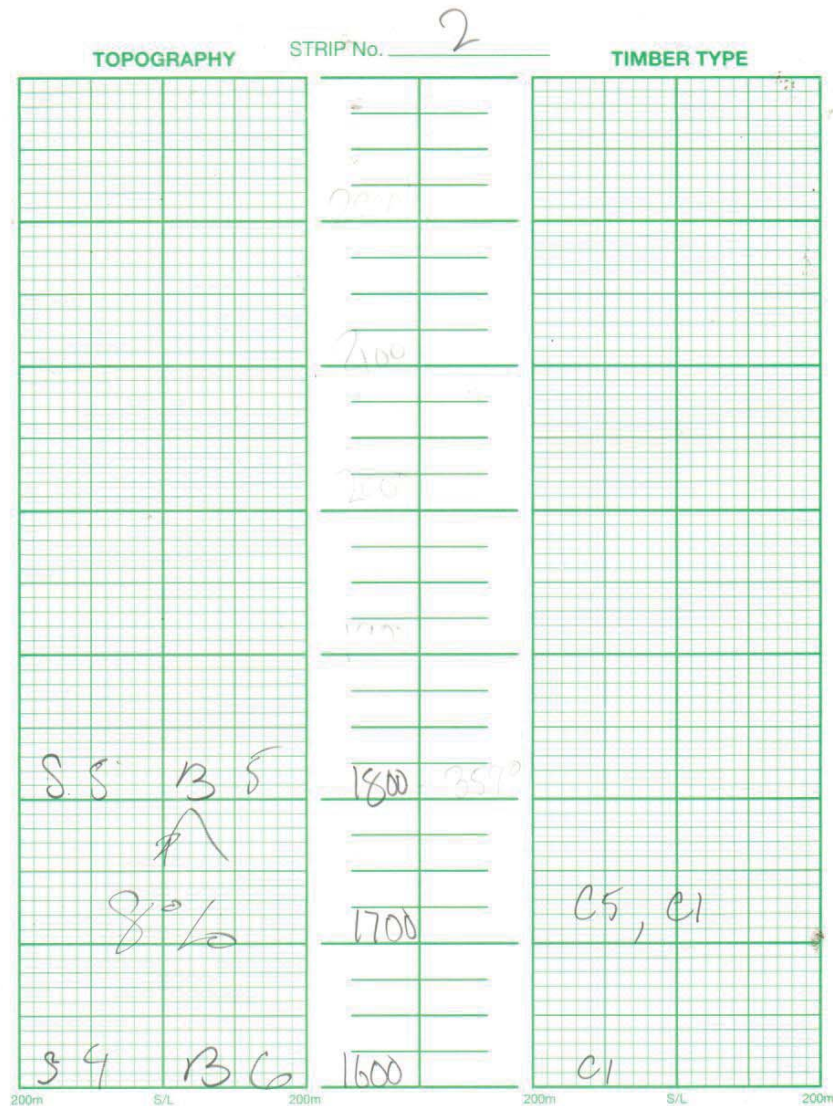
www.irisupplies.com  
 Ph: 1-800-663-6643

| TOPOGRAPHY | STRIP No. 2 | TIMBER TYPE |
|------------|-------------|-------------|
| S 5 B 5    | 1500        |             |
|            | 1400        |             |
| 5%         | 1300        | C5 C5       |
|            | 1200        | C1 C1       |
| S 6 B 4    | 1100        | C5          |
| ↑          | 1000 - 145° |             |
| 8%         | 900 - 219°  |             |
| S 5 B 5    | 800         | C1 C5       |

STRIP NO.: 2 DIRECTION: 351° 330°, 219°, 145°  
 START STRIP: 800  
 JOB NO.: PAR-30 DATE: FEB 2, 2016  
 CREW: JD, JJ  
 REMARKS: IT'S HAMMERED

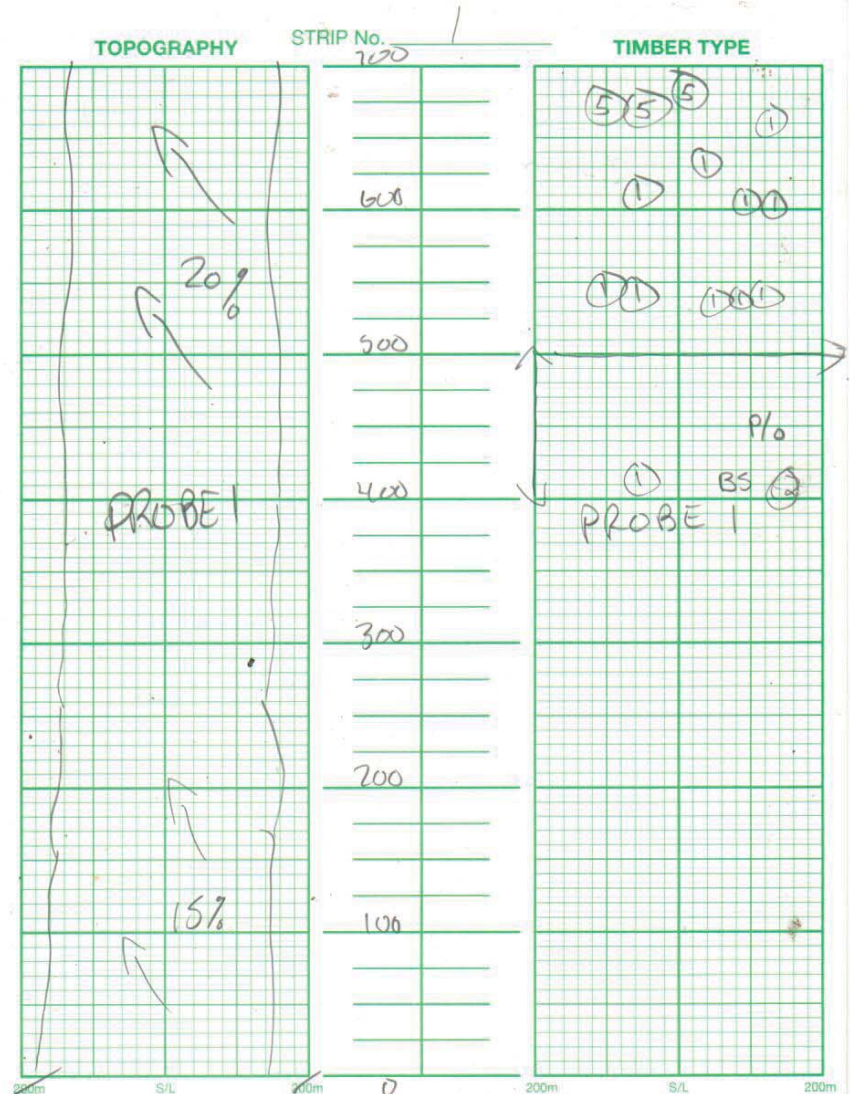


www.irisupplies.com  
 Ph: 1-800-663-6643



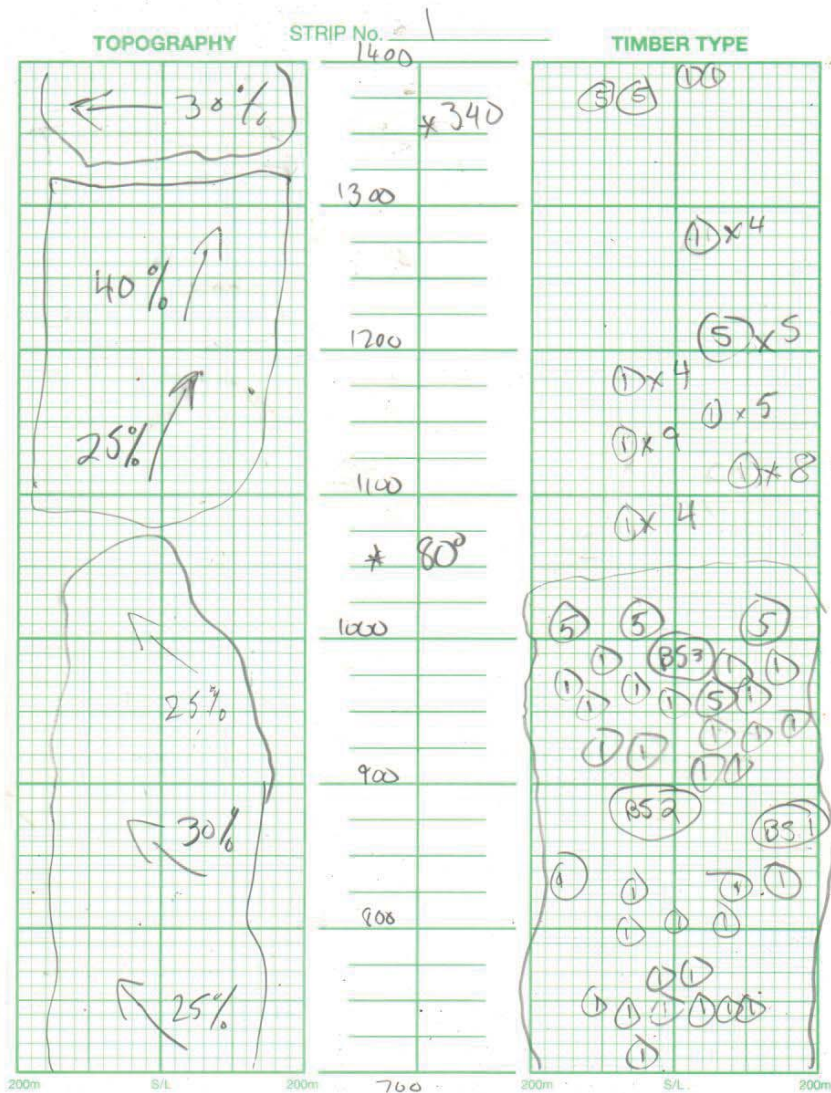
STRIP NO.: 2 DIRECTION: 351°, 330°, 219°, 145°  
 START STRIP: 1600  
 JOB NO.: PAR-30 DATE: FEB 2, 2016  
 CREW: JD, JJ  
 REMARKS: HEAVY RAUPLER

 [www.irisupplies.com](http://www.irisupplies.com)  
 Ph: 1-800-663-6843

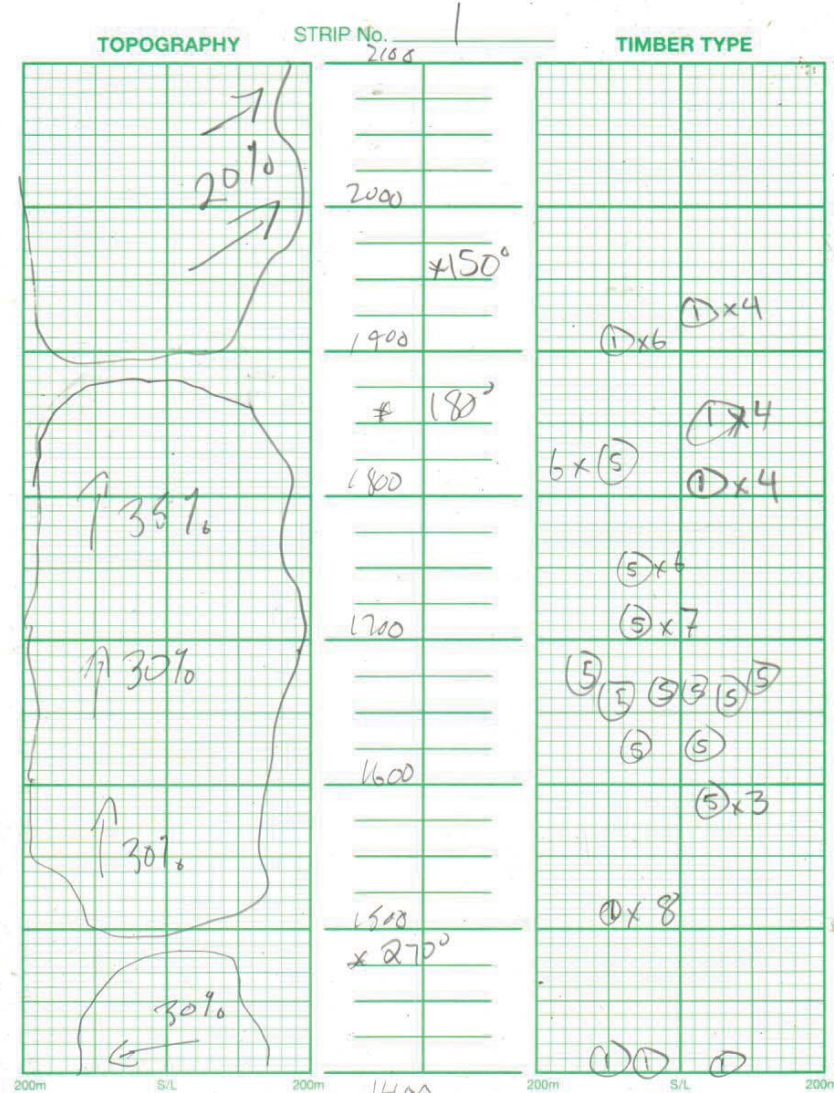


STRIP NO.: 1 DIRECTION: 350°  
 START STRIP: 0  
 JOB NO.: PAR-030 DATE: FEB 02 / 2016  
 CREW: James / Daniel / Blake  
 REMARKS:

 [www.irisupplies.com](http://www.irisupplies.com)  
 Ph: 1-800-663-6843



STRIP NO.: 1  
 START STRIP: 700m  
 JOB NO.: PAR-030  
 CREW: James / Darryl / Blake  
 DATE: Feb 02 / 2016  
 DIRECTION: 350°, 80°, 340°  
 REMARKS:



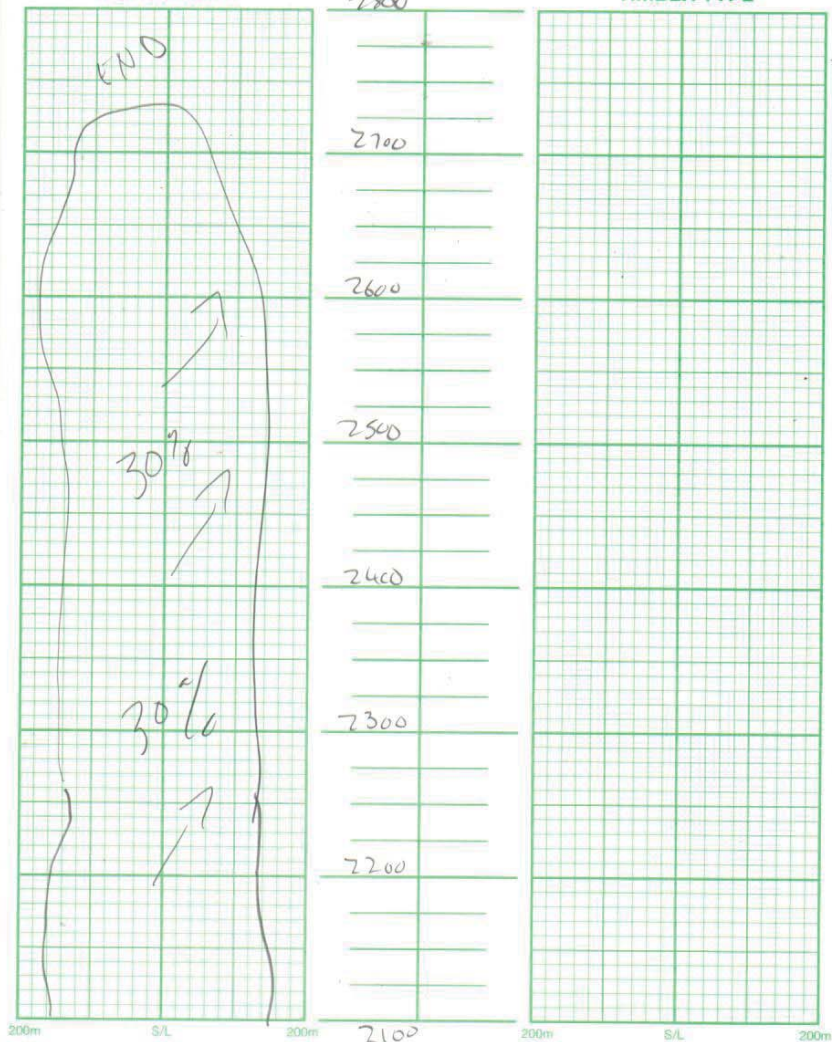
STRIP NO.: 1400  
 START STRIP: 1400  
 JOB NO.: PAR-030  
 CREW: James / Blake / Darryl /  
 DATE: Feb 02 / 2016  
 DIRECTION: 340°, 270°, 180°, 150°  
 REMARKS:



## TOPOGRAPHY

STRIP No. 1

## TIMBER TYPE



STRIP NO.:

1

DIRECTION:

150°

START STRIP:

2100

JOB NO.:

PAR 030

DATE:

FEB 21 2016

CREW:

James Blake / Barry

REMARKS:



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