

## **Appendix 4**

### **20-Year Plan**

# **APPENDIX IV**

**DUNKLEY LUMBER LTD.**

**20-YEAR PLAN**

**January 1, 2000 to December 31, 2019**

**in support of**

**Management Plan # 3**

February 28, 1999

*Prepared by*

**Dunkley Lumber Ltd.**

*With technical support from*

**Industrial Forestry Service Ltd.**

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DUNKLEY LUMBER LTD.  
PROPOSED 20-YEAR PLAN  
January 1, 2000 To December 31, 2019

## 1.0 Introduction

The following 20-Year Plan has been prepared by Dunkley Lumber Ltd., in support of the timber supply analysis and Management Plan # 3 for Tree Farm License # 53. This plan is a strategic development plan prepared in accordance with the Ministry of Forest's (MOF) "Tree Farm Management Guidelines (August 1998)," and proposed *terms of reference* submitted to the District Manager on January 21, 1999. This report has been written for the following reasons:

- A. To provide a summary of the inventory information used for the development of the plan.
- B. To provide guidelines, technical information and direction for the preparation of a feasible 20-Year Plan,
- C. To provide a description of the operational/strategic issues, constraints and concerns that were considered in the development of the plan,
- D. To provide a comparison of assumptions made in the 20-Year Plan and the timber supply analysis which it supports,

Key Map 1 illustrates the location of the T.F.L. # 53 within the Prince George Forest District.

## 2.0 Status of Inventory Information

The inventory/forest cover information used to prepare the 20-Year Plan for T.F.L. #53. is consistent with data used for the Timber Supply Analysis<sup>1</sup> to estimate the long-term harvest level. Table 1 summarizes the digital file source data. For both the 20-Year Plan and the timber supply analysis, inventory is based on 1991 photos with logging history updated by Hugh Hamilton Ltd. to April 1997. The timber supply analysis projected stand growth to 1998. The 20-Year Plan projected logging history to December 31, 1999 utilizing approved cutblocks from the Forest Development Plan. Cutblocks from the Forest Development Plan were scheduled in either Period 1 or Period 2 of the 20-Year Plan.<sup>2</sup>

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<sup>1</sup>This information is described in Table 24 of the Information Package is appended to the timber supply analysis report.

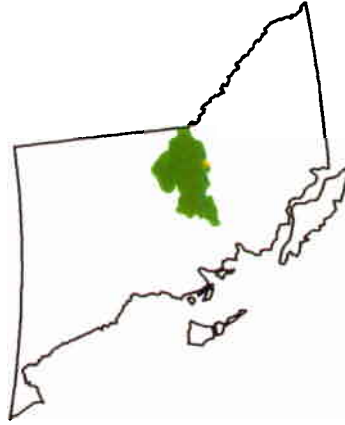
<sup>2</sup>The 20-Year Plan commences January 1, 2000 and ends December 31, 2019. The 20-year period has been divided into four 5-year periods for scheduling purposes.

MAP #1  
KEY MAP TO  
LOCATION OF T.F.L. 53

Scale 1 : 2 000 000

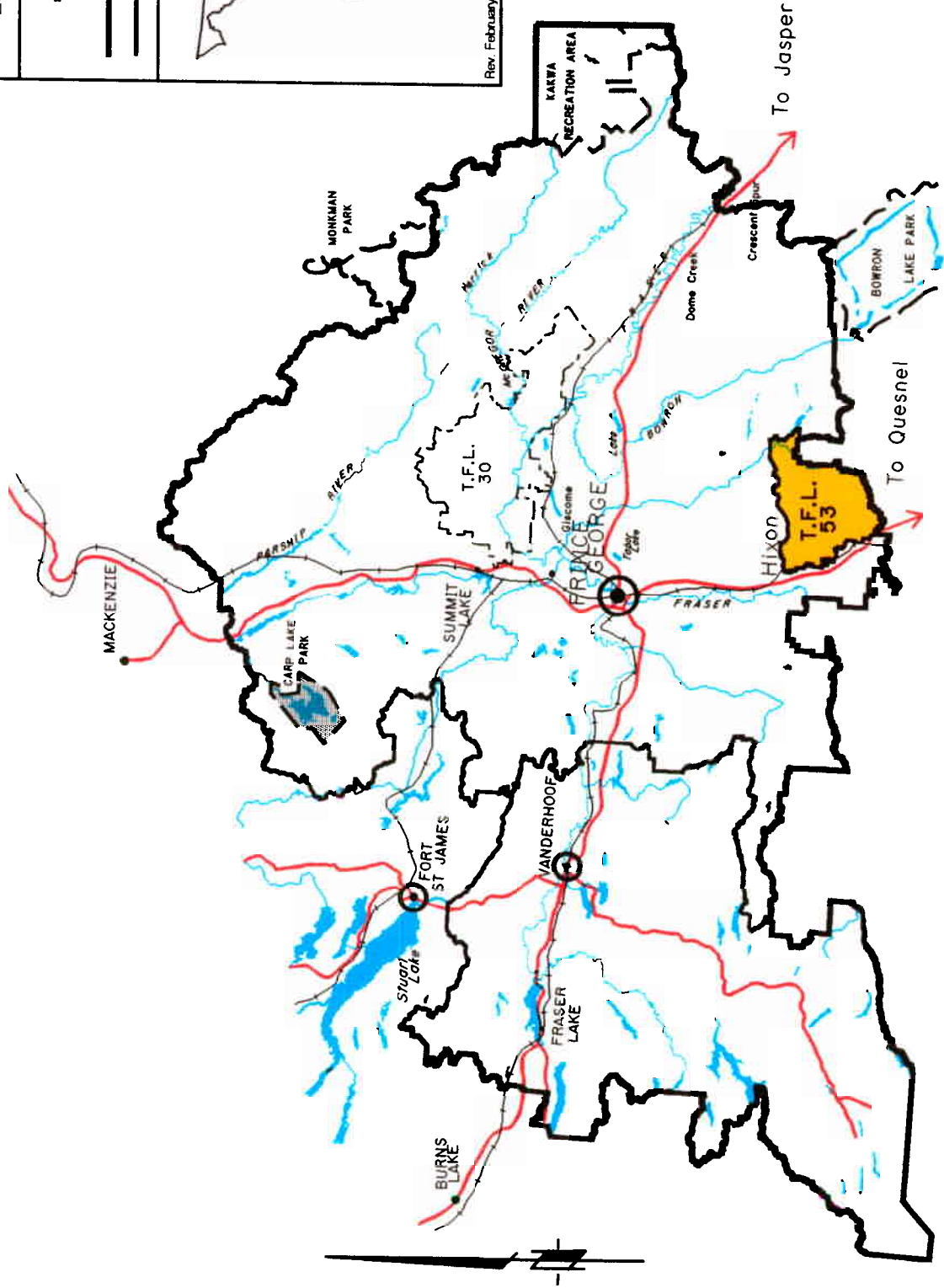
- Legend
- Forest District Boundary
  - Tree Farm License

Location Map



Rev February 1989

IFS 980830



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To address visual quality concerns, the approved visual landscape inventory was used for both the 20-Year Plan and the timber supply analysis. Although new visual quality classes have been proposed, they were not used in preparation of this 20-Year Plan.

Recreation information is consistent with the information used in the timber supply analysis. The following recreation sites were removed from the timber harvesting landbase:

|             |                |            |
|-------------|----------------|------------|
| Naver Creek | Stony Lake     | Ahbau Lake |
| Teapot Lake | Genevieve Lake |            |

Recreation sites on Yardley and Hay Lake have been permanently closed and these areas are now included as part of the harvestable landbase.

Table 1: Forest Resources Inventory Status

| Forest Resource Inventory | Standard | Date Completed | Date approved | Approved By                 | Status                        |
|---------------------------|----------|----------------|---------------|-----------------------------|-------------------------------|
| Forest Cover              | MOF      | Feb 93         | June 93       | Regional Inventory Forester | Updated annually <sup>3</sup> |
| Landscape                 | MOF      | Nov 98         | Dec 98        | District Manager            | Approved                      |
| Recreation                | MOF      | Feb 94         | June 94       | Regional Manager            | Approved                      |
| Forest Development Plan   | MOF      | May 98         | Nov 98        | District Manager            | Approved                      |

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<sup>3</sup>Disturbance history for the Timber Supply Analysis was updated to April 1997.

### 3.0 Guidelines Followed

Guidelines followed in the preparation of the 20-Year Plan are consistent with Dunkley's approved SMOOP for M.P. # 3. These guidelines are:

Harvest methods:

- ▶ Prescribed on a site specific basis with operations conducted to minimize soil disturbance, soil compaction and other environmental concerns.
- ▶ Methods to be used include conventional ground based systems, horse logging, overhead cable system and helicopter logging.

Utilization Standards:

- ▶ During the term of M.P.# 3 utilization specifications will be:
  - a minimum stump height of 30 cm for all species,
  - a minimum top diameter (inside bark) of 10 cm for all species,
  - minimum DBH 17.5 cm for spruce, balsam, aspen and Douglas-fir
  - minimum DBH of 12.5 cm for pine.

Partitioned Cut:

- ▶ A targeted partitioned cut on Residual Balsam stands having a stand volume of 50 to 140 m<sup>3</sup>/ha will be maintained at 4,100 m<sup>3</sup>/year.<sup>4</sup>

Deciduous Stands:

- ▶ Deciduous leading stands with a major coniferous component will be scheduled for harvest if the stand is sufficiently old enough that it appears to be converting to coniferous. The coniferous component must be greater than the regional priority harvest age.

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<sup>4</sup>Based on minimum MoF harvest age criteria, only 218 hectares of Balsam IU stands are available for harvest during the next 10 years. The model is not reflecting the operational practice. To address this, Dunkley has proposed to harvest approximately 200 hectares of Balsam IU during each 5-year period of this plan, by reducing the minimum harvest age of balsam in these IU areas.

### Harvest Prescriptions<sup>5</sup>:

- ▶ Standard block size is 40-60 hectares. Blocks larger than 60 hectares were proposed if the location was consistent with the structural characteristics, as well as, temporal and spatial distribution of natural openings (i.e. OPR II 3 b ii)
- ▶ Minimum block size is 1 hectare except for salvage areas, that have been proposed in the Forest Development Plan
- ▶ In parts of the T.F.L. where little historic logging has occurred, a 3-pass system was used to schedule the mature plus thrifty timber. In the remaining areas of the T.F.L., the harvesting history of the T.F.L. does not lend itself into a “pass” definition. In these areas, blocks are scheduled when adjacent green-up is met.
- ▶ Block shapes - irregular with considerations for natural land formations, stand merchantability, visual concerns, slope, wind and wildlife habitat.
- ▶ Harvest delay period between passes is the green-up delay for plantations to reach 3 metres in the IRM zone and VEG height in visually sensitive areas.
- ▶ Harvest delay is predicted using the TIPS Y model.
- ▶ Reserve width - blocks were spaced with consideration for future availability, therefore reserve widths vary. Reserve widths correspond to block size (i.e. small blocks have small reserves, large blocks have large reserves), except where block corners touch due to 3 pass block scheduling and block amalgamations where windfall potential is high.
- ▶ Partial cuts have been proposed in some areas to minimize harvest impact on visual quality, slope stability and wildlife habitat.

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<sup>5</sup>All cutblocks in the 20-Year Plan, were proposed using the harvest prescriptions stated in the proposed *terms of reference*.

## **4.0 Net Operable Landbase**

The net operable landbase or T.H.L.B is identified in Appendix II (Map 2) at a scale of 1:50,000. Areas removed from the gross forest landbase include reductions for problem forest types, poor site quality, environmentally sensitive areas, riparian reserves, recreation reserves, and road buffers. The remaining area or net operable landbase is colour coded on Map 3 ( Appendix III) at a scale of 1:50,000 according to species, height and age criteria. Blocks proposed in the 20-Year Plan have been located in these areas.

## **5.0 Proposed 20-Year Development Plan**

Map 3 identifies areas proposed for harvesting and road development during the next 20-year period. It is displayed on the approved Forest Development Plan base and it identifies resource features, present green-up height, and proposed cutblocks.

### **5.1 Resource Features**

#### **5.11 Old Growth**

Seral stage distribution of old growth were factored into the timber supply analysis over a 140 year period, based on natural disturbance type. The 20-Year Plan does not account for seral stage distributions, however age class 9 (241 years+) stands of timber were reserved from harvesting wherever possible. The 20-Year Plan does not track candidate old growth stands into age class 9.

#### **5.12 Visually Sensitive Areas**

Visually sensitive areas were accounted for in both the 20-Year Plan and the analysis report in a slightly different manner. In the analysis report, forest cover constraints were applied to limit harvest availability in scenic areas with visual quality objectives (VQOs). Forest cover constraints were applied to the gross forested area in these VQO zones. In the 20-Year Plan, monitoring levels of forest cover denudation would have produced an unnecessary amount of file reads in order to ensure compliance to the VQO. To account for the harvest restrictions, partial cuts were proposed for any blocks proposed in partial retention, retention and preservation VQO zones. The partial cuts in these zones have assumed that 75% of the total volume will be removed. This will allow for retention of understorey and smaller diameter trees on these sites.

### **5.13 Slope Stability Classes**

The analysis report does not allow for slope stability concerns, as these areas can be harvested using overhead cable and helicopter logging methods. The 20-Year Plan however, identifies areas with Slopes Stability Classes IV & V. Partial cuts in these areas assume that 90% of the volume will be removed and some thrifty understorey will be retained.

## **5.2 Green-Up**

Green-up was projected to August 7th, 1998. The 20-Year Plan accounted for regeneration delay based on the average, area-weighted green-up height derived using the managed stand growth model TIPS Y (ie: IRM 15 years). This is consistent with the timber supply analysis.

## **5.3 Proposed Blocks**

### **5.31 Spatial Distribution**

#### 3-Pass System

A 3-pass harvest system on the net mature landbase was applied in the 20-Year Plan. Deviations from this occurred on a site specific basis when considerations were given to blowdown areas, patch size distributions and historic logging. The timber supply analysis applied a 33% forest cover constraint to the total net landbase, to simulate the spatial and temporal constraints of scheduling timber availability.

#### Adjacency Constraints

The harvest prescription for each cutblock has allowed for a harvest delay period between passes. The proposed green-up delay period will be sufficient for plantations to reach 3 metres in the IRM zone and VEG height in visually sensitive areas.

#### Balsam IU

Most of the stands identified as Balsam IU have not achieved their minimum harvest age. The timber supply analysis identified only 218 hectares of these stands available for harvest in the next 10 years. As described earlier, approximately 200 hectares of Balsam IU are proposed for harvest during each 5-year period. Rehabilitation activities on these sites are not expected to cause harvest delay problems for adjacent blocks, as much of the green-up will be retained.

## 5.32 Temporal Distribution

### Harvest Age

Minimum harvest age for both the 20-Year Plan and the timber supply analysis was applied using MOF regional priority cutting age for all merchantable species. The analysis diverges slightly from the 20-Year Plan when the forest estate model allows stands to be harvested at the beginning of a 10-year period, even if the stand has not yet reached cutting age. This look-ahead feature is built into the model and assumes these stands will become available for harvesting sometime during the next 10 year period. The 20-Year Plan did not assume a similar, liberal approach to timber availability and is based on forest inventory ages instead.

### Harvest Volume

Both the timber supply analysis and the 20-Year Plan calculated existing and future (0-20 years) harvested stand volumes using the MOF Variable Density Yield Prediction (VDYP) model. In the case of the 20-Year Plan, volumes were stand (polygon) specific after proposed cutblocks were intersected into the forest cover base using ARC-INFO GIS. To account for the growth of timber over the term of the 20-Year Plan, polygon volumes were projected to the midpoint of each 5-year harvest period. For the timber supply analysis, the volumes were predicted using the yield table function in VDYP. All volumes reported are net of decay, waste and breakage.

The volumes predicted for Balsam IU stands are believed to be incorrectly overestimated on the inventory files. A volume per hectare of 75 m<sup>3</sup>/hectare was assumed for the 20-Year Plan.

### Commercial Thinning

The timber supply analysis did not assume commercial thinning will be done to any significant extent. Blocks scheduled for commercial thinning in the 20-Year Plan accounted for some additional volume by assuming that 30% of gross volume would be harvested from some thrifty pine stands.

### Wildlife Tree Patches

Wildlife tree patches were modelled in the timber supply analysis by doubling the areas required and scheduling the harvest of WTPs over a 160 year rotation. To account for WTPs in the 20-Year Plan, a 2% reduction was applied to the total net merchantable volume for each 5-year period. The remaining area required for wildlife habitat was assumed to come from riparian reserves, unmerchantable stems and other excluded

landbase in and around cut blocks.

### Harvest Schedule

The timber supply analysis harvests stands using an oldest first harvest rule. The rule is subject to constraints imposed by old growth requirements by NDT. The 20-Year Plan, which considers the spatial and temporal distribution of harvests, has scheduled cutblocks that will meet adjacency and green-up criteria and has targeting the older stands in the central and north-east portions of the T.F.L. as the priority (ie. Periods 1 & 2). Some younger mature and thrifty stands will reach MOF harvest age criteria during the next 20 years in the southern and western portions of the T.F.L. and have been scheduled as a second priority (ie. Period 3). Similarly Period 4 targets older stands in the central and north-east that have met green-up constraints, as well as, younger stands reaching MOF harvest age criteria in the north and northwest portion of the T.F.L.

Blocks scheduled by 5-year period are illustrated on Map 3. Table 2 (Appendix I) summarizes areas, volumes, adjustment factors, silviculture systems and harvest methods proposed for each block by 5-year period.

## **6.0 Timber Quality**

Map 4 (Appendix IV) provides an overview of timber quality found on the T.F.L. This map was produced by J.S. Thrower and Associates Ltd., upon the completion of a site index adjustment using Biogeoclimatic Ecosystem Classification for T.F.L. # 53. Site series were defined by Keystone Wildlife Research Ltd and Oikos Ecological Consultants Ltd. The adjusted site index which resulted from this information were used in the timber supply analysis in the calculation of future managed stand yields for the timber supply analysis. The area-weighted BEC site index was used in the 20-Year Plan to predict green-up delay for cutblock adjacency.

## **7.0 Harvest Methods**

Map 5 (Appendix V) illustrates slope classes generated from TRIM data using used ARC-INFO GIS to help differentiate between potential conventional and cable harvest areas. Harvest methods remain unchanged for any blocks included in the approved Forest Development Plan. Harvest methods for all other blocks were proposed utilizing slope classes, terrain stability classes, proposed access and photo interpretation. No areas within the T.F.L. were considered inoperable due to slope.

**T.F.L. 53 20-Year Plan**

**APPENDIX 1**

**Table 2 - Harvest Schedule**

Table 2: Harvest Schedule

| PERIOD 1 ( January 1, 2000 to December 31, 2004) |           |     |                 |                   |                 |                                 |                     |                |                          |
|--------------------------------------------------|-----------|-----|-----------------|-------------------|-----------------|---------------------------------|---------------------|----------------|--------------------------|
| Map Sheet                                        | CP        | Blk | Gross Area (ha) | Gross Volume (m3) | Net Volume (m3) | Operability Zone Adjustment (%) | Silviculture System | Harvest Method | Comments                 |
| 093G048                                          | 121-1     | 87  | 40.1            | 13496.7           | 13496.7         | 100%IRM                         | CC - R              | GB             |                          |
| 093G048                                          | 124-1     | 123 | 31.5            | 7267.5            | 6686.1          | 80%TS@90%                       | SEL                 | GB             |                          |
| 093G048                                          | 112-2     | 135 | 15.0            | 5476.2            | 4983.3          | 90%TS@90%                       | SEL                 | GB             |                          |
| 093G048                                          | 167-1     | 142 | 53.0            | 19357.4           | 19357.4         | 100%IRM                         | CC - R              | GB             |                          |
| 093G048                                          | 113-1     | 200 | 8.1             | 3472.6            | 3472.6          | 100%IRM                         | CC                  | GB             |                          |
| 093G048                                          | SBFEP-Y   | 300 | 24.3            | 7009.0            | 6868.8          | 20%TS@90%                       | CC - R / SEL        | GB             |                          |
| 093G049                                          | 142-1     | 26  | 55.6            | 20415.3           | 20415.3         | 100%IRM                         | CC - R              | GB             |                          |
| 093G049                                          | 142-2     | 45  | 64.0            | 20967.0           | 20967.0         | 100%IRM                         | CC - R              | GB             |                          |
| 093G049                                          | 162-1     | 52  | 6.6             | 1934.9            | 1934.9          | 100%IRM                         | CC                  | GB             |                          |
| 093G049                                          | 110-1     | 65  | 348.2           | 113071.5          | 33921.5         | 100%IRM                         | SEL                 | GB             | Remove 30% of the volume |
| 093G049                                          | 162-2     | 67  | 7.3             | 2705.9            | 2705.9          | 100%IRM                         | CC                  | GB             |                          |
| 093G049                                          | 49-1      | 77  | 59.1            | 20187.6           | 20187.6         | 100%IRM                         | CC - R              | Cable          |                          |
| 093G049                                          | 162-3     | 94  | 15.2            | 4049.5            | 4049.5          | 100%IRM                         | CC - R              | GB             |                          |
| 093G049                                          | 49-2      | 108 | 36.3            | 12096.7           | 12096.7         | 100%IRM                         | CC - R              | Cable          |                          |
| 093G049                                          | A49610-A3 | 113 | 62.1            | 814.1             | 814.1           | 100%IRM                         | CC - R              | GB             |                          |
| 093G049                                          | 162-4     | 117 | 10.0            | 3170.9            | 3170.9          | 100%IRM                         | CC                  | GB             |                          |
| 093G049                                          | 106-1     | 118 | 22.9            | 7289.6            | 7289.6          | 100%IRM                         | CC - R              | Cable          |                          |
| 093G049                                          | 49-3      | 134 | 53.9            | 16132.2           | 16132.2         | 100%IRM                         | CC - R              | GB/Cable       |                          |
| 093G049                                          | 162-5     | 139 | 6.0             | 1644.8            | 1644.8          | 100%IRM                         | CC                  | GB             |                          |
| 093G049                                          | 165-2     | 161 | 57.9            | 13753.8           | 13753.8         | 100%IRM                         | CC - R              | GB             |                          |
| 093G049                                          | 165-1     | 197 | 63.4            | 23453.3           | 23453.3         | 100%IRM                         | CC - R              | GB             |                          |
| 093G049                                          | 59-1      | 215 | 54.5            | 16053.6           | 15572.0         | 30%TS@90%                       | CC - R / SEL        | Cable/Heli     |                          |
| 093G049                                          | 144-1     | 236 | 42.4            | 14597.5           | 14597.5         | 100%IRM                         | CC - R              | GB             |                          |
| 093G049                                          | 164-1     | 258 | 43.2            | 12806.6           | 12806.6         | 100%IRM                         | CC - R              | GB             |                          |
| 093G049                                          | SBFEP-AG  | 264 | 49.0            | 16120.1           | 14669.3         | 90%TS@90%                       | SEL                 | GB             |                          |
| 093G049                                          | 164-2     | 280 | 51.2            | 18586.4           | 18586.4         | 100%IRM                         | CC - R              | GB             |                          |

|         |          |     |       |          |          |           |              |         |  |
|---------|----------|-----|-------|----------|----------|-----------|--------------|---------|--|
| 093G050 | SBFEP-AB | 10  | 65.8  | 25301.6  | 25301.6  | 100%IRM   | CC - R       | GB      |  |
| 093G050 | 141-1    | 20  | 46.7  | 15575.5  | 15575.5  | 100%IRM   | CC - R       | GB      |  |
| 093G050 | 141-3    | 25  | 49.9  | 14528.6  | 13511.6  | 70%TS@90% | CC - R / SEL | GB      |  |
| 093G050 | 153-1    | 46  | 58.3  | 21245.6  | 21245.6  | 100%IRM   | CC - R       | GB      |  |
| 093G050 | 141-2    | 71  | 59.2  | 18220.9  | 17492.1  | 40%TS@90% | CC - R / SEL | GB      |  |
| 093G050 | 118      | 76  | 522.3 | 155846.9 | 152730.0 | 20%TS@90% | CC - R / SEL | GB/Heli |  |
| 093G050 |          | 192 | 59.0  | 18350.0  | 18350.0  | 100%IRM   | CC - R       | GB      |  |
| 093G050 | 109-1    | 243 | 17.0  | 6387.7   | 6387.7   | 100%IRM   | CC - R       | GB      |  |

|         |       |     |     |        |        |         |    |    |  |
|---------|-------|-----|-----|--------|--------|---------|----|----|--|
| 093H041 | 148-6 | 109 | 7.1 | 3387.8 | 3387.8 | 100%IRM | CC | GB |  |
|---------|-------|-----|-----|--------|--------|---------|----|----|--|

|         |       |     |       |         |         |         |          |          |                                   |
|---------|-------|-----|-------|---------|---------|---------|----------|----------|-----------------------------------|
| 093G038 | 98-1  | 309 | 47.0  | 18106.5 | 5432.0  | 100%IRM | Com Thin | GB       | Commercial thinning @ 30% removal |
| 093G038 | 126-1 | 325 | 116.0 | 44385.6 | 13315.7 | 100%IRM | Com Thin | GB       | Commercial thinning @ 30% removal |
| 093G038 | 123-1 | 417 | 37.2  | 10344.8 | 10344.8 | 100%IRM | CC - R   | GB       |                                   |
| 093G038 | 168-1 | 421 | 65.4  | 24804.0 | 24804.0 | 100%IRM | CC - R   | GB       |                                   |
| 093G038 | 125-1 | 466 | 36.9  | 4342.5  | 4342.5  | 100%IRM | CC - R   | GB       | Deciduous block                   |
| 093G038 | 122-1 | 471 | 33.2  | 12162.2 | 12162.2 | 100%IRM | CC - R   | GB       |                                   |
| 093G038 | 122-2 | 481 | 2.6   | 1028.1  | 1028.1  | 100%IRM | CC       | GB       |                                   |
| 093G038 | 122-4 | 510 | 42.9  | 17580.0 | 17580.0 | 100%IRM | CC - R   | GB       |                                   |
| 093G038 | 145-1 | 511 | 64.6  | 25553.5 | 25553.5 | 100%IRM | CC - R   | GB/Cable |                                   |
| 093G038 | 122-3 | 523 | 44.0  | 17565.5 | 17565.5 | 100%IRM | CC - R   | GB       |                                   |
| 093G038 | 104-1 | 558 | 46.3  | 12131.1 | 12131.1 | 100%IRM | CC - R   | GB       |                                   |

|         |          |     |      |         |         |            |              |          |                             |
|---------|----------|-----|------|---------|---------|------------|--------------|----------|-----------------------------|
| 093G039 | 131-3    | 312 | 21.4 | 2387.9  | 1604.3  | 100%IRM    | SEL          | GB       | 21.4 ha Balsam IU @ 75m3/ha |
| 093G039 | SBFEP-AD | 317 | 48.3 | 14461.0 | 14461.0 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 131-2    | 323 | 22.9 | 2532.1  | 1714.2  | 100%IRM    | SEL          | GB       | 22.9 ha Balsam IU @ 75m3/ha |
| 093G039 | 131-1    | 335 | 49.4 | 203.5   | 3708.3  | 100%IRM    | SEL          | GB       | 15.8 ha Balsam IU @ 75m3/ha |
| 093G039 | SBFEP-R  | 338 | 46.1 | 18197.0 | 18197.0 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | SBFEP-T  | 427 | 26.5 | 7304.4  | 7304.4  | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 160-1    | 430 | 48.3 | 18610.7 | 16749.6 | 100%TS@90% | SEL          | GB       |                             |
| 093G039 | 158-5    | 463 | 54.6 | 26334.3 | 26334.3 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 116-2    | 479 | 56.1 | 17910.8 | 16657.0 | 70%TS@90%  | CC - R / SEL | GB/Cable | 56.1 ha Balsam IU @ 75m3/ha |
| 093G039 | 137-1    | 493 | 50.0 | 20588.6 | 20588.6 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 145-2    | 505 | 53.0 | 20514.6 | 19899.2 | 30%TS@90%  | CC - R / SEL | GB/Cable |                             |
| 093G039 | 129-1    | 506 | 45.2 | 0.0     | 3393.0  | 100%IRM    | SEL          | GB       | 45.2 ha Balsam IU @ 75m3/ha |
| 093G039 | 137-2    | 529 | 62.6 | 31971.5 | 31012.4 | 30%TS@90%  | CC - R / SEL | GB       |                             |
| 093G039 | 108-1    | 534 | 14.0 | 3995.5  | 3755.8  | 60%TS@90%  | CC - R / SEL | GB/Heli  |                             |
| 093G039 |          | 569 | 25.6 | 9140.9  | 9140.9  | 100%IRM    | CC - R       | GB       |                             |

| Plot ID | Area (ha) | Age (yr) | DBH (cm) | Height (m) | Volume (m³) | Species   | Management   | Notes                 |
|---------|-----------|----------|----------|------------|-------------|-----------|--------------|-----------------------|
| 093G039 | 569       | 25.6     | 9141     | 9141       | 100%IRM     | CC - R    | GB           |                       |
| 093G040 | 326       | 56.1     | 20272    | 20272      | 100%IRM     | CC - R    | GB           |                       |
| 093G040 | 138-1     | 343      | 60.9     | 27186      | 27186       | 100%IRM   | CC - R       | GB/Cable              |
| 093G040 | 138-2     | 357      | 32.0     | 13636      | 13636       | 100%IRM   | CC - R       | GB                    |
| 093G040 | 168-1     | 363      | 39.9     | 15700      | 15700       | 100%IRM   | CC - R       | GB                    |
| 093G040 |           | 376      | 208.3    | 63682      | 62408       | 20%TS@90% | CC - R / SEL | GB                    |
| 093G040 | 155-1     | 380      | 54.3     | 18698      | 18698       | 100%IRM   | CC - R       | GB                    |
| 093G040 | 143-1     | 400      | 36.3     | 13947      | 13947       | 100%IRM   | CC - R       | GB                    |
| 093G040 | SBFEP-AC  | 423      | 22.0     | 10365      | 10365       | 100%IRM   | CC - R       | GB                    |
| 093G040 | 140-1     | 443      | 35.2     | 15009      | 15009       | 100%IRM   | CC - R       | Cable                 |
| 093G040 | 158-4     | 521      | 53.8     | 19456      | 19456       | 100%IRM   | CC - R       | GB                    |
| 093G040 | 157-1     | 539      | 57.5     | 21986      | 20886       | 20%PR@75% | CC - R / SEL | GB                    |
| 093G040 | 139-2     | 559      | 51.3     | 18017      | 18017       | 100%IRM   | CC - R       | GB                    |
| 093G040 | 139-1     | 560      | 52.3     | 19725      | 19725       | 100%IRM   | CC - R       | GB                    |
| 093G028 | 104-2     | 607      | 27.7     | 2533       | 2533        | 100%IRM   | CC - R       | GB                    |
|         |           |          |          |            |             |           |              | Deciduous block       |
| 093G029 | 93-1      | 563      | 46.7     | 17823      | 16398       | 80%TS@90% | CC - R / SEL | Heli                  |
| 093G029 | 158-2     | 564      | 43.2     | 14831      | 14831       | 100%IRM   | CC - R       | GB                    |
| 093G029 | 85-1      | 611      | 57.3     | 21966      | 21088       | 40%TS@90% | CC - R / SEL | GB/Heli               |
| 093G029 | 130-3     | 647      | 44.1     | 172        | 3308        | 100%IRM   | SEL          | GB                    |
| 093G029 | 96-1      | 664      | 26.3     | 4985       | 1496        | 100%IRM   | Com Thin     | GB                    |
| 093G029 | 159-1     | 665      | 52.3     | 17904      | 16561       | 30%PR@75% | CC - R / SEL | GB                    |
| 093G029 | 97-1      | 692      | 32.0     | 9003       | 2701        | 100%IRM   | Com Thin     | GB                    |
| TOTALS  |           | 4416.0   | 1423826  | 1280613    | 1255000     |           |              | 2% Reduction for WTPs |

Note: CC - R = Clearcut with Reserves, CC = Clearcut, SEL = Selection, Com Thin = Commercial thinning  
GB = Ground Based Skidding, Cable = Cable logging, Heli = Helicopter logging  
IRM = Integrated Resource Management, TS= Terrain Stability classes IV and V, PR = Partial Retention  
Operability Zone Adjustment (%) describes factors that were used to reduce block volumes for TS and PR concerns. For example:  
(i) 80%TS@90% indicates that 80% of the blocks has TS features and 90% of the volume is removed in that part of the block  
(ii) 20%PR@75% Indicates that 20% of the block has PR features and 75% of the volume is removed in that part of the block

|         |          |     |       |       |       |           |              |          |  |
|---------|----------|-----|-------|-------|-------|-----------|--------------|----------|--|
| 093G040 |          | 326 | 56.1  | 20272 | 20272 | 100%IRM   | CC - R       | GB       |  |
| 093G040 | 138-1    | 343 | 60.9  | 27186 | 27186 | 100%IRM   | CC - R       | GB/Cable |  |
| 093G040 | 138-2    | 357 | 32.0  | 13636 | 13636 | 100%IRM   | CC - R       | GB       |  |
| 093G040 | 168-1    | 363 | 39.9  | 15700 | 15700 | 100%IRM   | CC - R       | GB       |  |
| 093G040 |          | 376 | 208.3 | 63682 | 62408 | 20%TS@90% | CC - R / SEL | GB       |  |
| 093G040 | 155-1    | 380 | 54.3  | 18698 | 18698 | 100%IRM   | CC - R       | GB       |  |
| 093G040 | 143-1    | 400 | 36.3  | 13947 | 13947 | 100%IRM   | CC - R       | GB       |  |
| 093G040 | SBFEP-AC | 423 | 22.0  | 10365 | 10365 | 100%IRM   | CC - R       | GB       |  |
| 093G040 | 140-1    | 443 | 35.2  | 15009 | 15009 | 100%IRM   | CC - R       | Cable    |  |
| 093G040 | 158-4    | 521 | 53.8  | 19456 | 19456 | 100%IRM   | CC - R       | GB       |  |
| 093G040 | 157-1    | 539 | 57.5  | 21986 | 20886 | 20%PR@75% | CC - R / SEL | GB       |  |
| 093G040 | 139-2    | 559 | 51.3  | 18017 | 18017 | 100%IRM   | CC - R       | GB       |  |
| 093G040 | 139-1    | 560 | 52.3  | 19725 | 19725 | 100%IRM   | CC - R       | GB       |  |

|         |       |     |      |      |      |         |        |    |                 |
|---------|-------|-----|------|------|------|---------|--------|----|-----------------|
| 093G028 | 104-2 | 607 | 27.7 | 2533 | 2533 | 100%IRM | CC - R | GB | Deciduous block |
|---------|-------|-----|------|------|------|---------|--------|----|-----------------|

|         |       |     |        |         |         |           |              |         |                                   |
|---------|-------|-----|--------|---------|---------|-----------|--------------|---------|-----------------------------------|
| 093G029 | 93-1  | 563 | 46.7   | 17823   | 16398   | 80%TS@90% | CC - R / SEL | Heli    |                                   |
| 093G029 | 158-2 | 564 | 43.2   | 14831   | 14831   | 100%IRM   | CC - R       | GB      |                                   |
| 093G029 | 85-1  | 611 | 57.3   | 21966   | 21088   | 40%TS@90% | CC - R / SEL | GB/Heli |                                   |
| 093G029 | 130-3 | 647 | 44.1   | 172     | 3308    | 100%IRM   | SEL          | GB      | 44.1 ha Balsam IU @ 75m3/ha       |
| 093G029 | 96-1  | 664 | 26.3   | 4985    | 1496    | 100%IRM   | Com Thin     | GB      | Commercial thinning @ 30% removal |
| 093G029 | 159-1 | 665 | 52.3   | 17904   | 16561   | 30%PR@75% | CC - R / SEL | GB      |                                   |
| 093G029 | 97-1  | 692 | 32.0   | 9003    | 2701    | 100%IRM   | Com Thin     | GB      | Commercial thinning @ 30% removal |
| TOTALS  |       |     | 4416.0 | 1423826 | 1280613 |           |              |         |                                   |
|         |       |     |        |         | 1255000 |           |              |         | 2% Reduction for WTPs             |

Note: CC - R = Clearcut with Reserves, CC = Clearcut, SEL = Selection, Com Thin = Commercial thinning

GB = Ground Based Skidding, Cable = Cable logging, Heli = Helicopter logging

IRM = Integrated Resource Management, TS= Terrain Stability classes IV and V, PR = Partial Retention

Operability Zone Adjustment (%) describes factors that were used to reduce block volumes for TS and PR concerns. For example:

(i) 80%TS@90% indicates that 80% of the blocks has TS features and 90% of the volume is removed in that part of the block

(ii) 20%PR@75% indicates that 20% of the block has PR features and 75% of the volume is removed in that part of the block

Table 2: Harvest Schedule

| PERIOD 2 ( January 1, 2005 to December 31, 2009) |                    |     |                 |                   |                 |                                 |                     |                |          |
|--------------------------------------------------|--------------------|-----|-----------------|-------------------|-----------------|---------------------------------|---------------------|----------------|----------|
| Map Sheet                                        | CP                 | Blk | Gross Area (ha) | Gross Volume (m3) | Net Volume (m3) | Operability Zone Adjustment (%) | Silviculture System | Harvest Method | Comments |
| 093G048                                          | 112-1<br>A49610-A2 | 91  | 11.3            | 2586.8            | 2586.8          | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 92  | 34.4            | 12421.4           | 12421.4         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 101 | 11.6            | 2986.7            | 2986.7          | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 111 | 49.3            | 18180.8           | 17999.0         | 10%TS@90%                       | CC - R / SEL        | GB             |          |
| 093G048                                          |                    | 116 | 63.5            | 21226.1           | 19952.5         | 60%TS@90%                       | CC - R / SEL        | GB             |          |
| 093G048                                          |                    | 130 | 59.2            | 19135.7           | 19135.7         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 170 | 49.9            | 13733.6           | 13733.6         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 179 | 60.4            | 19487.0           | 19487.0         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 187 | 61.1            | 19883.0           | 19883.0         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 231 | 53.1            | 17219.7           | 17219.7         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 242 | 37.8            | 11602.1           | 11602.1         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 266 | 58.7            | 18931.1           | 18931.1         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 291 | 37.7            | 12051.5           | 12051.5         | 100%IRM                         | CC - R              | GB             |          |
| 093G048                                          |                    | 293 | 19.9            | 6434.4            | 6434.4          | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          | 162-6<br>161-1     | 21  | 36.8            | 12827.4           | 12827.4         | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          |                    | 37  | 9.0             | 3408.3            | 3408.3          | 100%IRM                         | CC                  | GB             |          |
| 093G049                                          |                    | 39  | 32.8            | 12840.9           | 12840.9         | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          |                    | 41  | 5.8             | 2422.4            | 2422.4          | 100%IRM                         | CC                  | GB             |          |
| 093G049                                          |                    | 57  | 42.9            | 10349.2           | 10349.2         | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          |                    | 75  | 50.7            | 17543.9           | 17543.9         | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          |                    | 85  | 48.7            | 12940.5           | 12940.5         | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          |                    | 223 | 49.0            | 13034.0           | 13034.0         | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          |                    | 245 | 32.1            | 8905.7            | 8104.2          | 90%TS@90%                       | SEL                 | GB/Cable       |          |
| 093G049                                          |                    | 262 | 43.0            | 12010.0           | 12010.0         | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          |                    | 281 | 59.2            | 16400.1           | 15908.1         | 30%TS@90%                       | CC - R / SEL        | GB/Cable       |          |
| 093G049                                          |                    | 287 | 34.6            | 14045.2           | 14045.2         | 100%IRM                         | CC - R              | GB             |          |
| 093G049                                          |                    | 295 | 35.6            | 12071.3           | 12071.3         | 100%IRM                         | CC - R              | GB             |          |

|         |       |     |      |         |         |           |        |          |
|---------|-------|-----|------|---------|---------|-----------|--------|----------|
| 095G050 |       | 3   | 39.5 | 13200.4 | 13200.4 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 9   | 6.9  | 2204.4  | 2204.4  | 100%IRM   | CC     | GB       |
| 095G050 |       | 15  | 21.7 | 7708.2  | 7708.2  | 100%IRM   | CC - R | GB       |
| 093G050 |       | 28  | 36.4 | 9598.4  | 9598.4  | 100%IRM   | CC - R | GB       |
| 095G050 |       | 44  | 44.0 | 15951.5 | 15951.5 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 51  | 39.8 | 15126.8 | 15126.8 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 61  | 18.0 | 6941.3  | 6941.3  | 100%IRM   | CC - R | GB       |
| 095G050 |       | 79  | 39.8 | 15259.2 | 15259.2 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 95  | 51.7 | 19818.9 | 19818.9 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 99  | 8.9  | 3412.9  | 3412.9  | 100%IRM   | CC     | GB       |
| 095G050 |       | 125 | 29.8 | 11384.6 | 11384.6 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 151 | 28.8 | 11671.2 | 11671.2 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 152 | 31.7 | 12398.6 | 12398.6 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 154 | 30.4 | 12512.1 | 12512.1 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 166 | 32.3 | 12753.4 | 12753.4 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 167 | 21.5 | 9085.0  | 9085.0  | 100%IRM   | CC - R | GB       |
| 095G050 |       | 168 | 51.0 | 23659.8 | 23659.8 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 196 | 41.8 | 14698.4 | 14698.4 | 100%IRM   | CC - R | GB/Cable |
| 093G050 | 154-1 | 199 | 58.7 | 26473.0 | 26473.0 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 222 | 25.5 | 10135.8 | 10135.8 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 252 | 37.5 | 15339.6 | 15339.6 | 100%IRM   | CC - R | GB/Cable |
| 095G050 |       | 255 | 49.6 | 20458.2 | 20458.2 | 100%IRM   | CC - R | GB       |
| 095G050 |       | 269 | 45.3 | 17703.4 | 16110.1 | 90%TS@90% | SEL    | GB/Cable |
| 095G050 |       | 284 | 45.5 | 18338.5 | 18338.5 | 100%IRM   | CC - R | GB       |

|         |       |     |      |         |         |           |              |    |
|---------|-------|-----|------|---------|---------|-----------|--------------|----|
| 093H041 |       | 6   | 11.0 | 6030.4  | 6030.4  | 100%IRM   | CC - R       | GB |
| 093H041 | 153-3 | 23  | 51.7 | 22879.7 | 22879.7 | 100%IRM   | CC - R       | GB |
| 093H041 |       | 23  | 51.7 | 22879.7 | 22879.7 | 100%IRM   | CC - R       | GB |
| 093H041 |       | 34  | 36.2 | 14945.4 | 14945.4 | 100%IRM   | CC - R       | GB |
| 093H041 |       | 72  | 32.6 | 14988.8 | 14988.8 | 100%IRM   | CC - R       | GB |
| 093H041 |       | 86  | 24.1 | 8669.8  | 8669.8  | 100%IRM   | CC - R       | GB |
| 093H041 |       | 102 | 13.5 | 5733.2  | 5733.2  | 100%IRM   | CC - R       | GB |
| 093H041 |       | 105 | 23.4 | 9279.7  | 9279.7  | 100%IRM   | CC - R       | GB |
| 093H041 |       | 128 | 34.4 | 15913.4 | 15117.7 | 50%TS@90% | CC - R / SEL | GB |
| 093H041 |       | 150 | 5.9  | 2145.6  | 2145.6  | 100%IRM   | CC           | GB |
| 093H041 |       | 984 | 6.7  | 2870.9  | 2870.9  | 100%IRM   | CC           | GB |
| 093H041 |       | 985 | 18.6 | 8935.8  | 8935.8  | 100%IRM   | CC - R       | GB |

|         |       |     |      |         |         |         |        |    |                            |
|---------|-------|-----|------|---------|---------|---------|--------|----|----------------------------|
| 093G039 |       | 303 | 53.2 | 20280.6 | 20280.6 | 100%IRM | CC - R | GB |                            |
| 093G039 |       | 347 | 26.1 | 8023.0  | 8023.0  | 100%IRM | CC - R | GB |                            |
| 096G039 |       | 398 | 46.3 | 15810.7 | 15810.7 | 100%IRM | CC - R | GB |                            |
| 096G039 |       | 399 | 44.2 | 17741.4 | 17741.4 | 100%IRM | CC - R | GB |                            |
| 096G039 |       | 414 | 70.8 | 28459.4 | 28459.4 | 100%IRM | CC - R | GB |                            |
| 096G039 |       | 416 | 19.5 | 6504.0  | 6504.0  | 100%IRM | CC - R | GB |                            |
| 096G039 |       | 429 | 29.9 | 14143.0 | 14143.0 | 100%IRM | CC - R | GB |                            |
| 096G039 |       | 435 | 50.5 | 22660.7 | 22660.7 | 100%IRM | CC - R | GB |                            |
| 096G039 |       | 448 | 44.9 | 22781.4 | 22781.4 | 100%IRM | CC - R | GB |                            |
| 096G039 | 158-1 | 541 | 51.3 | 18446.6 | 18446.6 | 100%IRM | CC - R | GB |                            |
| 096G039 |       | 761 | 97.7 | 20055.8 | 7323.8  | 100%IRM | SEL    | GB | 97.7 ha BalsamIU @ 75m3/ha |
| 096G039 |       | 763 | 37.8 | 2270.8  | 2836.1  | 100%IRM | SEL    | GB | 37.8 ha BalsamIU @ 75m3/ha |

|         |  |     |      |         |         |           |              |          |  |
|---------|--|-----|------|---------|---------|-----------|--------------|----------|--|
| 096G040 |  | 301 | 36.0 | 13868.3 | 13868.3 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 302 | 55.4 | 20714.2 | 20714.2 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 307 | 47.2 | 14439.0 | 13861.4 | 40%TS@90% | CC - R / SEL | GB/Cable |  |
| 096G040 |  | 315 | 49.9 | 20000.8 | 19200.8 | 40%TS@90% | CC - R / SEL | GB       |  |
| 093G040 |  | 330 | 73.3 | 22995.9 | 20926.3 | 90%TS@90% | CC - R / SEL | GB/Cable |  |
| 093G040 |  | 358 | 49.8 | 16979.7 | 16130.7 | 50%TS@90% | CC - R / SEL | GB       |  |
| 096G040 |  | 379 | 47.7 | 19769.7 | 19769.7 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 382 | 46.2 | 17198.4 | 17198.4 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 388 | 42.3 | 17833.2 | 17833.2 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 395 | 17.4 | 8257.9  | 8257.9  | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 442 | 41.9 | 15050.1 | 15050.1 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 451 | 8.7  | 4127.5  | 4127.5  | 100%IRM   | CC           | GB       |  |
| 096G040 |  | 458 | 35.3 | 15996.1 | 15996.1 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 468 | 31.7 | 11263.4 | 11263.4 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 513 | 43.8 | 18758.8 | 18758.8 | 100%IRM   | CC - R       | GB       |  |
| 096G040 |  | 977 | 45.1 | 20188.4 | 20188.4 | 100%IRM   | CC - R       | GB       |  |

|         |       |     |      |         |           |           |                       |    |                            |
|---------|-------|-----|------|---------|-----------|-----------|-----------------------|----|----------------------------|
| 093G029 |       | 571 | 7.5  | 2389.6  | 2389.6    | 100%IRM   | CC                    | GB |                            |
| 093G029 |       | 589 | 30.7 | 4460.7  | 4460.7    | 100%IRM   | CC - R                | GB |                            |
| 093G029 | 158-3 | 594 | 54.5 | 18403.7 | 18403.7   | 100%IRM   | CC - R                | GB |                            |
| 093G029 |       | 596 | 49.7 | 11530.9 | 11530.9   | 100%IRM   | CC - R                | GB |                            |
| 093G029 |       | 616 | 40.1 | 13796.4 | 13796.4   | 100%IRM   | CC - R                | GB |                            |
| 093G029 |       | 640 | 45.6 | 13500.8 | 13500.8   | 100%IRM   | CC - R                | GB |                            |
| 093G029 | 130-1 | 652 | 38.0 | 4781.9  | 2853.5    | 100%IRM   | SEL                   | GB | 38.0 ha BalsamIU @ 75m3/ha |
| 093G029 | 130-2 | 659 | 18.2 | 1239.3  | 1367.5    | 100%IRM   | SEL                   | GB | 18.2 ha BalsamIU @ 75m3/ha |
| 093G029 |       | 974 | 14.1 | 4049.6  | 4049.6    | 100%IRM   | CC - R                | GB |                            |
|         |       |     |      | 3776.6  | 1334556.5 | 1311155.5 |                       |    |                            |
|         |       |     |      |         | 1284932.4 |           | 2% Reduction for WTPs |    |                            |

Note: CC - R = Clearcut with Reserves, CC = Clearcut, SEL = Selection, Com Thin = Commercial thinning  
GB = Ground Based Skidding, Cable = Cable logging, Heli = Helicopter logging  
IRM = Integrated Resource Management, TS= Terrain Stability classes IV and V, PR = Partial Retention  
Operability Zone Adjustment (%) describes factors that were used to reduce block volumes for TS and PR concerns. For example:  
(i) 80%TS@90% indicates that 80% of the blocks has TS features and 90% of the volume is removed in that part of the block  
(ii) 20%PR@75% indicates that 20% of the block has PR features and 75% of the volume is removed in that part of the block

Table 2: Harvest Schedule

| PERIOD 3 ( January 1, 2010 to December 31, 2014) |    |     |                 |                   |                 |                                 |                     |                |                             |
|--------------------------------------------------|----|-----|-----------------|-------------------|-----------------|---------------------------------|---------------------|----------------|-----------------------------|
| Map Sheet                                        | CP | Blk | Gross Area (ha) | Gross Volume (m3) | Net Volume (m3) | Operability Zone Adjustment (%) | Silviculture System | Harvest Method | Comments                    |
| 093G049                                          |    | 136 | 6.6             | 2326.6            | 2326.6          | 100%IRM                         | CC                  | GB             |                             |
| 093G049                                          |    | 163 | 12.3            | 5099.0            | 5099.0          | 100%IRM                         | CC - R              | GB             |                             |
| 093G049                                          |    | 189 | 21.7            | 6508.0            | 6508.0          | 100%IRM                         | CC - R              | GB             |                             |
| 093G049                                          |    | 230 | 65.6            | 18706.2           | 18706.2         | 100%IRM                         | CC - R              | GB/Cable       |                             |
| 093G049                                          |    | 268 | 18.0            | 5394.6            | 5394.6          | 100%IRM                         | CC - R              | GB             |                             |
| 093G050                                          |    | 1   | 21.3            | 7142.5            | 7142.5          | 100%IRM                         | CC - R              | GB             |                             |
| 093G050                                          |    | 29  | 14.6            | 4847.7            | 4847.7          | 100%IRM                         | CC - R              | GB             |                             |
| 093G050                                          |    | 42  | 7.9             | 2737.9            | 2737.9          | 100%IRM                         | CC                  | GB             |                             |
| 093G050                                          |    | 49  | 39.9            | 11189.9           | 10630.4         | 50%TS@90%                       | CC - R / SEL        | GB/Cable       |                             |
| 093G050                                          |    | 84  | 64.2            | 20137.5           | 19936.1         | 10%TS@90%                       | CC - R / SEL        | GB/Cable       |                             |
| 093G050                                          |    | 210 | 39.5            | 18169.2           | 17987.5         | 10%TS@90%                       | CC - R / SEL        | GB             |                             |
| 093G038                                          |    | 342 | 29.0            | 10260.4           | 10260.4         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 365 | 32.5            | 9026.0            | 9026.0          | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 366 | 54.2            | 18505.9           | 18505.9         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 370 | 50.8            | 17442.4           | 17442.4         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 372 | 34.1            | 10802.6           | 10802.6         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 375 | 23.2            | 7716.9            | 7716.9          | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 397 | 31.4            | 10107.3           | 10107.3         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 406 | 39.2            | 12392.1           | 12392.1         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 408 | 65.3            | 24978.7           | 24978.7         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 410 | 41.5            | 15249.7           | 14487.2         | 20PR@75%                        | CC - R / SEL        | GB             |                             |
| 093G038                                          |    | 453 | 35.7            | 10838.9           | 10297.0         | 20PR@75%                        | CC - R / SEL        | GB             |                             |
| 093G038                                          |    | 464 | 25.8            | 8169.5            | 8169.5          | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 488 | 42.9            | 10112.5           | 10112.5         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 490 | 11.4            | 4304.6            | 4304.6          | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 540 | 12.3            | 3977.5            | 3977.5          | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 549 | 51.7            | 18275.7           | 18275.7         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 802 | 59.2            | 10769.1           | 10769.1         | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 804 | 15.6            | 1474.7            | 1167.4          | 100%IRM                         | SEL                 | GB             | 15.6 ha Balsam IU @ 75m3/ha |
| 093G038                                          |    | 808 | 23.4            | 7271.2            | 7271.2          | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 809 | 34.2            | 4522.3            | 4522.3          | 100%IRM                         | CC - R              | GB             |                             |
| 093G038                                          |    | 813 | 24.8            | 9615.5            | 9615.5          | 100%IRM                         | CC - R              | GB             |                             |

|         |     |      |         |         |           |              |          |                             |
|---------|-----|------|---------|---------|-----------|--------------|----------|-----------------------------|
| 093G039 | 319 | 18.6 | 6970.9  | 6970.9  | 100%IRM   | CC - R       | GB       |                             |
| 093G039 | 334 | 31.7 | 8789.3  | 8174.0  | 70%TS@90% | CC - R / SEL | GB/Cable |                             |
| 093G039 | 350 | 66.4 | 22531.8 | 22531.8 | 100%IRM   | CC - R       | GB/Cable |                             |
| 093G039 | 360 | 14.2 | 3463.3  | 3394.0  | 20%TS@90% | CC - R / SEL | GB/Cable |                             |
| 096G039 | 368 | 25.1 | 10064.5 | 10064.5 | 100%IRM   | CC - R       | GB       |                             |
| 096G039 | 377 | 50.4 | 21603.1 | 21603.1 | 100%IRM   | CC - R       | GB       |                             |
| 093G039 | 383 | 12.5 | 5410.3  | 5410.3  | 100%IRM   | CC - R       | GB       |                             |
| 096G039 | 461 | 48.3 | 21970.5 | 20872.0 | 50%TS@90% | CC - R / SEL | GB/Cable |                             |
| 096G039 | 473 | 52.8 | 23673.1 | 23199.6 | 20%TS@90% | CC - R / SEL | GB       |                             |
| 093G039 | 477 | 36.3 | 17840.7 | 17662.3 | 10%TS@90% | CC - R / SEL | GB       |                             |
| 093G039 | 556 | 3.2  | 1449.3  | 1449.3  | 100%IRM   | CC           | GB       |                             |
| 093G039 | 567 | 40.1 | 14603.0 | 14603.0 | 100%IRM   | CC - R       | GB       |                             |
| 093G039 | 764 | 52.3 | 5486.8  | 3919.0  | 100%IRM   | SEL          | GB       | 52.3 ha Balsam IU @ 75m3/ha |
| 093G039 | 805 | 66.3 | 7176.4  | 4969.9  | 100%IRM   | SEL          | GB       | 66.3 ha Balsam IU @ 75m3/ha |

|         |     |       |         |         |         |        |    |                             |
|---------|-----|-------|---------|---------|---------|--------|----|-----------------------------|
| 093G040 | 455 | 251.4 | 81126.4 | 81126.4 | 100%IRM | CC - R | GB |                             |
| 096G040 | 457 | 30.1  | 10090.9 | 10090.9 | 100%IRM | CC - R | GB |                             |
| 093G040 | 478 | 55.7  | 25091.5 | 25091.5 | 100%IRM | CC - R | GB |                             |
| 093G040 | 525 | 34.8  | 6788.3  | 6788.3  | 100%IRM | CC - R | GB |                             |
| 093G040 | 537 | 63.2  | 24381.8 | 24381.8 | 100%IRM | CC - R | GB |                             |
| 093G040 | 550 | 35.0  | 17625.5 | 17625.5 | 100%IRM | CC - R | GB |                             |
| 093G040 | 762 | 24.9  | 134.6   | 1865.3  | 100%IRM | SEL    | GB | 24.9 ha Balsam IU @ 75m3/ha |

|         |     |      |         |         |           |              |    |  |
|---------|-----|------|---------|---------|-----------|--------------|----|--|
| 093G028 | 585 | 24.0 | 5970.6  | 5970.6  | 100%IRM   | CC - R       | GB |  |
| 093G028 | 591 | 57.3 | 17667.7 | 17667.7 | 100%IRM   | CC - R       | GB |  |
| 093G028 | 604 | 14.2 | 2687.2  | 2687.2  | 100%IRM   | CC - R       | GB |  |
| 093G028 | 615 | 19.1 | 5233.9  | 5233.9  | 100%IRM   | CC - R       | GB |  |
| 093G028 | 650 | 29.4 | 8703.0  | 8485.4  | 10%PR@75% | CC - R / SEL | GB |  |
| 093G028 | 663 | 32.3 | 8656.8  | 8224.0  | 20%PR@75% | CC - R / SEL | GB |  |
| 093G028 | 740 | 23.0 | 6443.2  | 6443.2  | 100%IRM   | CC - R       | GB |  |

|         |     |      |         |         |           |              |    |
|---------|-----|------|---------|---------|-----------|--------------|----|
| 093G029 | 584 | 42.8 | 11305.8 | 11305.8 | 100%IRM   | CC - R       | GB |
| 093G029 | 634 | 27.2 | 8231.2  | 8231.2  | 100%IRM   | CC - R       | GB |
| 093G029 | 637 | 60.9 | 25755.0 | 25755.0 | 100%IRM   | CC - R       | GB |
| 093G029 | 649 | 35.4 | 10545.3 | 10545.3 | 100%IRM   | CC - R       | GB |
| 093G029 | 655 | 24.2 | 6654.1  | 6155.0  | 30%PR@75% | CC - R / SEL | GB |
| 093G029 | 657 | 29.9 | 8231.7  | 8231.7  | 100%IRM   | CC - R       | GB |
| 093G029 | 670 | 56.5 | 17994.7 | 17994.7 | 100%IRM   | CC - R       | GB |
| 093G029 | 671 | 19.7 | 4033.5  | 4033.5  | 100%IRM   | CC - R       | GB |
| 093G029 | 672 | 30.6 | 9664.0  | 9664.0  | 100%IRM   | CC - R       | GB |
| 093G029 | 673 | 46.9 | 13234.2 | 13234.2 | 100%IRM   | CC - R       | GB |
| 093G029 | 674 | 37.1 | 11626.3 | 11626.3 | 100%IRM   | CC - R       | GB |
| 093G029 | 676 | 35.4 | 7336.0  | 7336.0  | 100%IRM   | CC - R       | GB |
| 093G029 | 678 | 32.1 | 9925.8  | 9925.8  | 100%IRM   | CC - R       | GB |
| 093G029 | 679 | 45.0 | 9749.7  | 9749.7  | 100%IRM   | CC - R       | GB |
| 093G029 | 688 | 36.4 | 12788.6 | 12788.6 | 100%IRM   | CC - R       | GB |
| 093G029 | 690 | 38.4 | 11662.3 | 11662.3 | 100%IRM   | CC - R       | GB |
| 093G029 | 696 | 38.2 | 11821.5 | 11821.5 | 100%IRM   | CC - R       | GB |
| 093G029 | 697 | 48.1 | 13953.9 | 13953.9 | 100%IRM   | CC - R       | GB |
| 093G029 | 698 | 49.4 | 14142.5 | 14142.5 | 100%IRM   | CC - R       | GB |
| 093G029 | 699 | 50.9 | 14913.5 | 14913.5 | 100%IRM   | CC - R       | GB |
| 093G029 | 703 | 46.6 | 16385.9 | 16385.9 | 100%IRM   | CC - R       | GB |
| 093G029 | 708 | 25.0 | 8329.2  | 8329.2  | 100%IRM   | CC - R       | GB |
| 093G029 | 739 | 60.5 | 19020.6 | 19020.6 | 100%IRM   | CC - R       | GB |
| 093G029 | 742 | 35.1 | 9695.8  | 9695.8  | 100%IRM   | CC - R       | GB |
| 093G029 | 743 | 49.3 | 8073.1  | 3694.8  | 100%IRM   | SEL          | GB |
| 093G029 | 751 | 34.6 | 6454.2  | 6454.2  | 100%IRM   | CC - R       | GB |

49.3 ha Balsam IU @ 75m3/ha

|         |     |      |         |         |            |              |          |
|---------|-----|------|---------|---------|------------|--------------|----------|
| 093G030 | 574 | 47.6 | 16409.6 | 16409.6 | 100%IRM    | CC - R       | GB/Cable |
| 093G030 | 579 | 51.2 | 20777.6 | 20777.6 | 100%IRM    | CC - R       | GB       |
| 093G030 | 595 | 7.7  | 2730.5  | 2047.9  | 100%PR@75% | SEL          | GB       |
| 093G030 | 601 | 20.6 | 8684.2  | 6513.2  | 100%PR@75% | SEL          | GB       |
| 093G030 | 602 | 45.4 | 18381.5 | 18381.5 | 100%IRM    | CC - R       | GB       |
| 093G030 | 612 | 44.1 | 15539.5 | 14762.5 | 20%PR@75%  | CC - R / SEL | GB       |
| 093G030 | 614 | 33.4 | 12893.4 | 12893.4 | 100%IRM    | CC - R       | GB       |
| 093G030 | 622 | 14.4 | 5683.9  | 4262.9  | 100%PR@75% | SEL          | GB       |
| 093G030 | 633 | 50.7 | 19059.1 | 19059.1 | 100%IRM    | CC - R       | GB       |
| 093G030 | 638 | 12.9 | 4847.1  | 3635.3  | 100%PR@75% | SEL          | GB       |
| 093G030 | 641 | 38.3 | 11938.5 | 11938.5 | 100%IRM    | CC - R       | GB       |
| 093G030 | 737 | 63.4 | 23008.8 | 23008.8 | 100%IRM    | CC - R       | GB       |

|         |     |      |         |         |           |        |          |
|---------|-----|------|---------|---------|-----------|--------|----------|
| 093G019 | 710 | 42.4 | 12495.4 | 12495.4 | 100%IRM   | CC - R | GB       |
| 093G019 | 711 | 47.7 | 15857.7 | 15857.7 | 100%IRM   | CC - R | GB       |
| 093G019 | 715 | 55.8 | 15711.4 | 15711.4 | 100%IRM   | CC - R | GB       |
| 093G019 | 721 | 30.1 | 8628.6  | 8628.6  | 100%IRM   | CC - R | GB       |
| 093G019 | 722 | 61.5 | 18461.9 | 18092.7 | 20%TS@90% | CC - R | GB/Cable |
| 093G019 | 727 | 27.7 | 9894.0  | 9894.0  | 100%IRM   | CC - R | GB       |
| 093G019 | 728 | 28.6 | 9392.0  | 9298.1  | 10%TS@90% | CC - R | GB       |
| 093G019 | 730 | 36.3 | 12932.6 | 12932.6 | 100%IRM   | CC - R | GB       |
| 093G019 | 734 | 22.1 | 5720.0  | 5720.0  | 100%IRM   | CC - R | GB       |
| 093G019 | 735 | 48.8 | 17498.3 | 17498.3 | 100%IRM   | CC - R | GB       |

|        |           |           |                       |
|--------|-----------|-----------|-----------------------|
| 4129.3 | 1307781.0 | 1288493.9 |                       |
|        |           | 1262724.0 | 2% Reduction for WTPs |

Note: CC - R = Clearcut with Reserves, CC = Clearcut, SEL = Selection, Com Thin = Commercial thinning

GB = Ground Based Skidding, Cable = Cable logging, Heli = Helicopter logging

IRM = Integrated Resource Management, TS= Terrain Stability classes IV and V, PR = Partial Retention

Operability Zone Adjustment (%) describes factors that were used to reduce block volumes for TS and PR concerns. For example:

- (i) 80%TS@90% indicates that 80% of the blocks has TS features and 90% of the volume is removed in that part of the block
- (ii) 20%PR@75% indicates that 20% of the block has PR features and 75% of the volume is removed in that part of the block

Table 2: Harvest Schedule

| PERIOD 4 ( January 1, 2015 to December 31, 2019) |    |     |                 |                   |                 |                                 |                     |                |                 |
|--------------------------------------------------|----|-----|-----------------|-------------------|-----------------|---------------------------------|---------------------|----------------|-----------------|
| Map Sheet                                        | CP | Blk | Gross Area (ha) | Gross Volume (m3) | Net Volume (m3) | Operability Zone Adjustment (%) | Silviculture System | Harvest Method | Comments        |
| 093G048                                          |    | 69  | 43.2            | 17762.6           | 17762.6         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 80  | 31.7            | 9798.6            | 9798.6          | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 81  | 5.5             | 2156.8            | 2156.8          | 100%IRM                         | CC                  | GB             |                 |
| 093G048                                          |    | 106 | 37.1            | 12420.4           | 12172.0         | 20%TS@90%                       | CC - R / SEL        | GB             |                 |
| 093G048                                          |    | 137 | 46.9            | 17252.4           | 17252.4         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 138 | 8.2             | 2375.3            | 2137.8          | 100%TS@90%                      | SEL                 | GB             |                 |
| 093G048                                          |    | 145 | 31.5            | 9322.3            | 8483.3          | 90%TS@90%                       | SEL                 | GB             |                 |
| 093G048                                          |    | 153 | 35.5            | 11705.2           | 11705.2         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 164 | 19.2            | 4780.6            | 4780.6          | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 186 | 40.9            | 13552.3           | 13552.3         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 191 | 64.4            | 21054.6           | 21054.6         | 100%IRM                         | CC - R              | GB/Cable       |                 |
| 093G048                                          |    | 194 | 43.8            | 15507.0           | 15507.0         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 208 | 12.3            | 3697.0            | 3697.0          | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 240 | 40.4            | 11845.4           | 11845.4         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 248 | 52.7            | 14200.0           | 14200.0         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 249 | 34.8            | 10839.7           | 10839.7         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 273 | 34.8            | 6378.9            | 6378.9          | 100%IRM                         | CC - R              | GB             | Deciduous block |
| 093G048                                          |    | 292 | 12.5            | 4014.0            | 4014.0          | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 298 | 44.4            | 12347.9           | 12100.9         | 20%TS@90%                       | CC - R / SEL        | GB             |                 |
| 093G048                                          |    | 767 | 30.0            | 9774.2            | 9774.2          | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 769 | 62.2            | 19359.4           | 18197.8         | 60%TS@90%                       | CC - R / SEL        | GB             |                 |
| 093G048                                          |    | 775 | 36.5            | 13085.2           | 13085.2         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 785 | 40.9            | 13228.6           | 13228.6         | 100%IRM                         | CC - R              | GB             |                 |
| 093G048                                          |    | 788 | 62.3            | 17347.5           | 17000.6         | 20%TS@90%                       | CC - R / SEL        | GB             |                 |
| 093G048                                          |    | 832 | 33.5            | 8759.1            | 8759.1          | 100%IRM                         | CC - R              | GB             |                 |

|         |     |      |         |         |            |              |          |
|---------|-----|------|---------|---------|------------|--------------|----------|
| 093G049 | 30  | 30.1 | 11249.9 | 11249.9 | 100%IRM    | CC - R       | GB       |
| 093G049 | 36  | 44.5 | 15939.6 | 15939.6 | 100%IRM    | CC - R       | GB       |
| 093G049 | 50  | 9.5  | 3603.7  | 3603.7  | 100%IRM    | CC           | GB       |
| 093G049 | 58  | 13.9 | 4211.0  | 4211.0  | 100%IRM    | CC - R       | GB       |
| 093G049 | 60  | 40.3 | 14164.9 | 14164.9 | 100%IRM    | CC - R       | GB       |
| 093G049 | 78  | 9.3  | 2726.9  | 2726.9  | 100%IRM    | CC           | GB       |
| 093G049 | 98  | 19.2 | 6489.8  | 6489.8  | 100%IRM    | CC - R       | Cable    |
| 093G049 | 107 | 39.9 | 14367.0 | 14367.0 | 100%IRM    | CC - R       | GB       |
| 093G049 | 127 | 62.6 | 20505.0 | 20505.0 | 100%IRM    | CC - R       | GB/Cable |
| 093G049 | 143 | 5.7  | 2256.4  | 2256.4  | 100%IRM    | CC           | GB       |
| 093G049 | 147 | 25.0 | 4806.8  | 4566.5  | 50%TS@90%  | CC - R / SEL | GB/Cable |
| 093G049 | 155 | 33.2 | 7509.5  | 7509.5  | 100%IRM    | CC - R       | GB       |
| 093G049 | 162 | 21.1 | 7633.8  | 7633.8  | 100%IRM    | CC - R       | GB       |
| 093G049 | 174 | 40.6 | 11981.7 | 11981.7 | 100%IRM    | CC - R       | GB       |
| 093G049 | 185 | 55.5 | 15738.9 | 15424.1 | 20%TS@90%  | CC - R / SEL | Cable    |
| 093G049 | 205 | 35.2 | 9917.9  | 9124.5  | 80%TS@90%  | CC - R / SEL | GB/Cable |
| 093G049 | 207 | 51.3 | 19735.6 | 19735.6 | 100%IRM    | CC - R       | GB       |
| 093G049 | 216 | 35.4 | 11891.6 | 11891.6 | 100%IRM    | CC - R       | GB       |
| 093G049 | 238 | 33.4 | 11682.0 | 11682.0 | 100%IRM    | CC - R       | GB       |
| 093G049 | 278 | 14.6 | 4914.6  | 4914.6  | 100%IRM    | CC - R       | GB       |
| 093G049 | 283 | 12.8 | 4348.1  | 4348.1  | 100%IRM    | CC - R       | GB       |
| 093G049 | 296 | 61.7 | 17498.1 | 17498.1 | 100%IRM    | CC - R       | GB       |
| 093G049 | 782 | 34.7 | 10062.0 | 10062.0 | 100%IRM    | CC - R       | GB       |
| 093G049 | 794 | 30.4 | 9944.6  | 9944.6  | 100%IRM    | CC - R       | GB       |
| 093G049 | 796 | 12.6 | 4136.8  | 3723.1  | 100%TS@90% | SEL          | GB/Cable |

|         |     |      |         |         |           |              |    |
|---------|-----|------|---------|---------|-----------|--------------|----|
| 095G050 | 8   | 18.4 | 6310.4  | 6310.4  | 100%IRM   | CC - R       | GB |
| 095G050 | 11  | 22.3 | 5239.4  | 5239.4  | 100%IRM   | CC - R       | GB |
| 093G050 | 13  | 38.5 | 11169.7 | 11169.7 | 100%IRM   | CC - R       | GB |
| 093G050 | 32  | 30.7 | 10518.1 | 10518.1 | 100%IRM   | CC - R       | GB |
| 093G050 | 53  | 38.3 | 16628.6 | 16628.6 | 100%IRM   | CC - R       | GB |
| 093G050 | 64  | 12.2 | 5256.2  | 5256.2  | 100%IRM   | CC - R       | GB |
| 093G050 | 124 | 62.8 | 20982.6 | 20982.6 | 100%IRM   | CC - R       | GB |
| 093G050 | 178 | 34.7 | 11138.7 | 11138.7 | 100%IRM   | CC - R       | GB |
| 093G050 | 188 | 28.1 | 9859.8  | 9859.8  | 100%IRM   | CC - R       | GB |
| 093G050 | 195 | 38.0 | 11698.0 | 11464.0 | 20%TS@90% | CC - R / SEL | GB |
| 093G050 | 237 | 33.4 | 13870.3 | 13870.3 | 100%IRM   | CC - R       | GB |
| 093G050 | 246 | 45.3 | 20092.4 | 20092.4 | 100%IRM   | CC - R       | GB |
| 093G050 | 271 | 43.3 | 19182.0 | 19182.0 | 100%IRM   | CC - R       | GB |

|         |     |      |         |         |            |              |          |                             |
|---------|-----|------|---------|---------|------------|--------------|----------|-----------------------------|
| 093G038 | 320 | 18.3 | 1441.2  | 1441.2  | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 322 | 41.0 | 13489.7 | 13489.7 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 327 | 60.7 | 24797.1 | 24797.1 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 390 | 13.4 | 4062.1  | 4062.1  | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 405 | 32.2 | 10847.2 | 10847.2 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 419 | 17.8 | 6414.5  | 6414.5  | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 432 | 38.5 | 12045.5 | 12045.5 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 437 | 38.5 | 13254.5 | 9940.9  | 100%PR@75% | SEL          | GB       |                             |
| 093G038 | 445 | 29.9 | 7355.4  | 7061.2  | 40%TS@90%  | CC - R / SEL | GB/Cable |                             |
| 093G038 | 499 | 52.0 | 18058.7 | 18058.7 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 502 | 38.9 | 14025.3 | 14025.3 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 524 | 35.0 | 11214.7 | 11214.7 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 532 | 47.8 | 14846.0 | 14474.9 | 10%PR@75%  | CC - R / SEL | GB       |                             |
| 093G038 | 797 | 29.8 | 11195.3 | 11195.3 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 799 | 32.4 | 11771.7 | 11771.7 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 810 | 18.2 | 3221.7  | 3221.7  | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 814 | 43.4 | 14832.0 | 14832.0 | 100%IRM    | CC - R       | GB       |                             |
| 093G038 | 979 | 43.4 | 5902.3  | 3251.5  | 100%IRM    | SEL          | GB       | 43.4 ha Balsam IU @ 75m3/ha |

|         |     |      |         |         |            |              |          |                             |
|---------|-----|------|---------|---------|------------|--------------|----------|-----------------------------|
| 093G039 | 316 | 31.3 | 9201.2  | 9201.2  | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 331 | 34.0 | 9109.1  | 9109.1  | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 349 | 42.0 | 11511.6 | 11511.6 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 352 | 10.2 | 4191.5  | 4191.5  | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 371 | 9.8  | 4381.4  | 4381.4  | 100%IRM    | CC           | GB       |                             |
| 093G039 | 394 | 30.1 | 12238.5 | 12238.5 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 415 | 45.7 | 18268.3 | 16441.5 | 100%TS@90% | SEL          | GB       |                             |
| 093G039 | 420 | 22.6 | 8780.9  | 8780.9  | 100%IRM    | CC - R       | GB       |                             |
| 096G039 | 452 | 32.3 | 13918.8 | 13918.8 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 480 | 28.6 | 12786.4 | 12786.4 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 485 | 30.8 | 12929.5 | 12800.2 | 10%TS@90%  | CC - R / SEL | GB/Cable |                             |
| 093G039 | 492 | 12.0 | 4948.9  | 4948.9  | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 500 | 8.3  | 3373.1  | 3373.1  | 100%IRM    | CC           | GB       |                             |
| 093G039 | 504 | 8.6  | 3967.8  | 3967.8  | 100%IRM    | CC           | GB       |                             |
| 093G039 | 516 | 25.8 | 9479.7  | 9479.7  | 100%IRM    | CC - R       | GB       |                             |
| 096G039 | 517 | 26.1 | 9948.3  | 9948.3  | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 530 | 21.8 | 11497.9 | 11497.9 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 531 | 44.0 | 15883.0 | 15883.0 | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 542 | 8.8  | 3218.6  | 2928.9  | 90%TS@90%  | SEL          | Cable    |                             |
| 093G039 | 565 | 29.0 | 2616.3  | 2616.3  | 100%IRM    | CC - R       | GB       |                             |
| 093G039 | 765 | 20.9 | 2316.5  | 1565.5  | 100%IRM    | SEL          | GB       | 20.9 ha Balsam IU @ 75m3/ha |
| 093G039 | 981 | 46.6 | 2159.4  | 3494.9  | 100%IRM    | SEL          | GB       | 46.6 ha Balsam IU @ 75m3/ha |
| 093G039 | 982 | 47.3 | 1025.8  | 3549.9  | 100%IRM    | SEL          | GB       | 47.3 ha Balsam IU @ 75m3/ha |

|         |     |       |         |         |           |              |    |
|---------|-----|-------|---------|---------|-----------|--------------|----|
| 093G040 | 359 | 49.7  | 18458.0 | 18458.0 | 100%IRM   | CC - R       | GB |
| 093G040 | 389 | 27.8  | 9530.4  | 9530.4  | 100%IRM   | CC - R       | GB |
| 093G040 | 396 | 135.1 | 38400.4 | 36096.4 | 60%TS@90% | CC - R / SEL | GB |
| 093G040 | 475 | 27.8  | 11738.8 | 11738.8 | 100%IRM   | CC - R       | GB |
| 093G040 | 494 | 49.6  | 18971.8 | 18971.8 | 100%IRM   | CC - R       | GB |
| 093G040 | 535 | 41.4  | 16506.5 | 16176.4 | 20%TS@90% | CC - R / SEL | GB |
| 093G040 | 557 | 35.7  | 13264.6 | 10611.7 | 80%PR@75% | CC - R / SEL | GB |

|         |     |      |         |         |         |        |    |
|---------|-----|------|---------|---------|---------|--------|----|
| 093G028 | 573 | 60.7 | 16455.7 | 16455.7 | 100%IRM | CC - R | GB |
|---------|-----|------|---------|---------|---------|--------|----|

|         |     |      |         |         |           |              |    |
|---------|-----|------|---------|---------|-----------|--------------|----|
| 093G029 | 568 | 43.0 | 14351.1 | 14351.1 | 100%IRM   | CC - R       | GB |
| 093G029 | 605 | 4.4  | 1742.9  | 1708.0  | 20%TS@90% | CC - R / SEL | GB |
| 093G029 | 628 | 61.2 | 21750.8 | 21750.8 | 100%IRM   | CC - R       | GB |
| 093G029 | 687 | 37.5 | 11414.2 | 11414.2 | 100%IRM   | CC - R       | GB |
| 093G029 | 744 | 43.0 | 471.7   | 3227.1  | 100%IRM   | SEL          | GB |
| 093G029 | 746 | 20.8 | 7888.1  | 7493.7  | 20%PR@75% | CC - R / SEL | GB |
| 093G029 | 748 | 12.3 | 4346.5  | 3585.9  | 70%PR@75% | CC - R / SEL | GB |
| 093G029 | 758 | 34.1 | 9469.4  | 9469.4  | 100%IRM   | CC - R       | GB |
| 093G029 | 760 | 43.4 | 14651.8 | 14651.8 | 100%IRM   | CC - R       | GB |

43.0 ha Balsam IU @ 75m3/ha

|         |     |      |         |         |         |        |    |
|---------|-----|------|---------|---------|---------|--------|----|
| 093G030 | 586 | 27.9 | 13025.9 | 13025.9 | 100%IRM | CC - R | GB |
|---------|-----|------|---------|---------|---------|--------|----|

|  |  |        |           |           |  |  |                       |
|--|--|--------|-----------|-----------|--|--|-----------------------|
|  |  | 4127.2 | 1320793.4 | 1306228.1 |  |  |                       |
|  |  |        |           | 1280103.6 |  |  | 2% Reduction for WTPs |

Note: CC - R = Clearcut with Reserves, CC = Clearcut, SEL = Selection, Com Thin = Commercial thinning  
GB = Ground Based Skidding, Cable = Cable logging, Heli = Helicopter logging  
IRM = Integrated Resource Management, TS= Terrain Stability classes IV and V, PR = Partial Retention  
Operability Zone Adjustment (%) describes factors that were used to reduce block volumes for TS and PR concerns. For example:  
(i) 80%TS@90% indicates that 80% of the blocks has TS features and 90% of the volume is removed in that part of the block  
(ii) 20%PR@75% indicates that 20% of the block has PR features and 75% of the volume is removed in that part of the block

**T.F.L. 53 20-Year Plan**

**APPENDIX II**

**Map 2 - Net Operable Landbase (1:50,000 scale)**

*(See Map Appended to the M.P. # 3 Report)*

**T.F.L. 53 20-Year Plan**

**APPENDIX III**

**Map 3 - 20 Year Development Plan (1:50,000 scale)**

*(See Map Appended to the M.P. # 3 Report)*

**T.F.L. 53 20-Year Plan**

**APPENDIX IV**

**Map 4 - Timber Quality (1:50,000 scale)**

*(See Map Appended to the M.P. # 3 Report)*

**T.F.L. 53 20-Year Plan**

**APPENDIX V**

**Map 5 - Harvest Methods (1:50,000 scale)**

*(See Map Appended to the M.P. # 3 Report)*