# WOODLOT LICENCE # W0039

# WOODLOT LICENCE PLAN #1

**First Term**
**May 27, 2011 to May 26, 2021**

**W. T. Errico**
**Gambier Forest Resources**
**RR #3**
**Gibsons, B.C.**
**V0N 1V0**
E-mail: gamfor@uniserve.com
Phone: **604-886-2871** Fax: **604-886-2837**

**Authorized Licensee Signature:**

**W.T. Errico**

[Print Name]

for Blair Wrightsmith

[Signature]

**2011-05-27**

## DISCLAIMER

- Recognizing the special nature of management on a woodlot licence, this disclaimer forms part of the Woodlot Licence Plan (WLP) for Woodlot Licence Number W0039 and advises that:
  - the decision to operate under one or more of the Default Performance Requirements provided in the Woodlot Licence Planning and Practices Regulation (WLPPR) is the sole responsibility of the woodlot licence holder, and involved no detailed oversight or advice from the prescribing registered professional forester. This disclaimer is signed on the explicit understanding and information provided by government that, the use and achievement of a Default Performance Requirement, meets the expectations of government with respect to the management of woodlot licences;
  - the undersigned Registered Professional Forester has been retained to provide advice on the practice of professional forestry with regard to items such as alternative performance requirements, applicable results and strategies and other required measures that do not have a default performance requirement provided in the WLPPR.

Signed Blair Wriglesworth

Name (Print) Blair Wriglesworth

RPF # 2691

Contact phone number 604-485-4014

Email overlanres@shaw.ca

Seal:




May. 27th, 2011

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# I. CONTENT FOR A WOODLOT LICENCE PLAN (WLP)

## PLAN AREA

☒ This plan covers the entire Woodlot Licence area.

The holder of Woodlot Licence 0039 is Gambier Forest Resources Ltd., based out of Gambier Island, BC. The Woodlot is an aggregate of crown (Schedule B) and private (Schedule A) lands. The essence of the Woodlot is the crown lands (400ha's) while the Private land is a small parcel to the south (approximately 2 ha's) that has had previous harvesting activities in recent years and will not present near term harvest opportunity. The Licence is located on Gambier Island within the Sunshine Coast Forest District. A map is provided in the attached appendix.

The operable forest cover is primarily age class 4 and 5 second growth, Hemlock & Fir leading stands that were restocked by natural regeneration following turn of the century logging. The terrain is generally gently rolling with pockets of rock outcrops. Two main creek systems traverse the Woodlot, Manion Creek and Whispering Creek.

This Woodlot Licence W0039 Woodlot Plan #1 (WLP) is consistent with the objectives established by government in land use plans. The broad objectives set by government are found in Section 9 of the *Woodlot Licence Planning and Practices Regulation (WLPPR).* In addition, the Sunshine Coast Forest District (SCFD) has provided the Objectives Matrix that is used to determine relevent and current *Forest and Range Practices Act (FRPA)* Values and Elements.

Recent work completed for the submission of this plan included a general mapping update of blocks, roads, and tenure lines, a review of wildlife tree retention areas within the woodlot area and a review of the plans consistency with the objectives stated by the Minister of Environment regarding both the winter survival of specified ungulate species and the survival of a Species at Risk (notice) applicable to the Sunshine Coast Forest District. More detail on these wildlife habitat conservation notices can be found below under the Wildlife Tree Retention Strategy.

# MAP AND INFORMATION

| Information Item | Map | Text | N/A |
|---|---|---|---|
| Forest cover | x | | |
| Topography; (unless exempted by DM) | x | | |
| Location of streams, wetlands and lakes as shown on forest cover maps, terrain resource inventory maps and fish and fish habitat inventory maps. | x | x | |
| Riparian classification of streams, wetlands and lakes if shown on maps | | x | |
| Identification of fish streams | | x | |
| Biogeoclimatic zones and subzones (unless exempted by DM) | x | | |
| Public utilities (transmission lines, gas & oil pipelines, and railways) | | | x |
| Existing roads | x | | |
| **Special Situations that may not Apply to the WL area** | | | |
| Resource Management Zones, Landscape Units or Sensitive Areas | | x | |
| Wildlife Habitat Areas (unless exempted by DM) | | | x |
| Scenic Areas | x | | |
| Ungulate Winter Ranges | | | x |
| Community Watersheds | | | x |
| Fisheries Sensitive Watersheds | | | x |
| Community and domestic water supply intakes that are licensed under the Water Act and any related water supply infrastructures | x | x | |
| Contiguous areas of sensitive soils | | | x |
| Temporary or permanent barricades to restrict vehicle access | | | x |
| Private property within or adjacent to the woodlot licence area | x | | |
| Resource features other than wildlife habitat features and archaeological sites (unless the location of the resource feature is not to be disclosed) | | | x |

The WLP information is captured in the following text and within the WLP maps found in the Appendix. The forest cover of W0039 is illustrated in the maps and generally describes conifer leading stands of Hemlock, Douglas-Fir or Western Red Cedar in the CWHdm and CWHxm biogeoclimactic zones of Gambier Island. Hardwood species such as Alder or Maple represent a minor component of commercial tree species and are usually associated with wetter richer site typically associated with past disturbance activity such as logging or in rare occasion natural slide events.
Two of the main creek systems, Mannion and Whispering Creek, are labelled on the WLP map and are known to be fish bearing systems. As field work progresses, creeks are classified based on fish presence or absence.

The Woodlot License Plan Maps (Maps in Appendix I1) include the following information:

- Forest cover,
- Topography,
- Location of streams and wetlands (i.e. Mannion/Whispering creek-non classified on the map as per available digital data),
- Contiguous areas of sensitive soil (none mapped as of yet),
- Licensed community water supply intakes and infrastructure (Points of Diversion are shown where found in government data records and the Points of Diversion are all located 'outside the Woodlot Boundary'),

- Domestic water supply intakes (One groundwater well was mapped within the Woodlot boundary),
- Existing roads,
- Recreation trails (no official designations),
- Known scenic areas (per Sunshine Coast Forest District May 16, 1997 letter amended June 4, 1999),
- Private property within and adjacent to the woodlot,
- Areas where timber harvesting will be avoided or modified to manage and/or protect resource values. (Map & text)

The following do not apply to the woodlot and are not shown:

- Wildlife habitat areas,
- Ungulate winter ranges,
- Community watersheds or fisheries sensitive watersheds,
- The location of public utilities (none found),

Other information pertaining to the woodlot is described in words (text) as follows:

### Biogeoclimatic zones and subzones:

1. The entire woodlot licence area is within either the *CWHdm or CWHxm* biogeoclimatic subzones.

### Resource Management Zones, Landscape Units or Sensitive Areas:

The entire woodlot licence area is within the draft Howe Landscape Unit. This lansdscape unit is not legally binding at the writing of this plan. It does however have draft Old Growth Management Area (OGMA) delineations that form the basis of its eventual endorsement in ongoing government planning protocols and is worth noting. The draft OGMA analysis forms the basis of landscape planning of old growth amounts and eventual old growth protection. Once approved, it will help guide planners in meeting their strategic resource plans.

For landscape units that do not have legally established landscape unit plans the Order Establishing Provincial Non-Spatial Old Growth Objectives (effective June 30, 2004) is typically applied to licences however WLP are specifically exempt from this government order. Also Section 13(3) of the Forest and Range Practices Act indicates that objectives relating to retention of old growth are not applicable to WLP's.

Where draft OGMA's are spatially delineated, but have not been legally established, the Holder will work with The Ministry of Forests, Lands & Natural Resource Operations (FLNRO) to minimize the amount of road construction or timber harvesting within the draft OGMA's. After checking the line work for draft OGMA's in the Howe Landscape Unit, it was noted that no such area conflicted within the WLP area although these

OGMA's are shown right adjacent to the WLP boundary as seen on the attached maps (see Appendix).

### Wildlife Habitat Areas:

No official Wildlife Habitat Areas (WHA's) were identified in this plan.

### Scenic Areas:

A scenic area has been established within the woodlot licence area as identified on the map in Appendix II.

### Ungulate Winter Ranges:

No ungulate winter ranges have been established over the Woodlot licence area.

### Community Watersheds:

No Community Watersheds have been established over the Woodlot licence area.

### Fisheries Sensitive Watersheds:

No Fish Sensitive Watersheds have been established over the Woodlot licence area.

### Community and domestic water supply intakes that are licensed under the Water Act and any related water supply infrastructures:

Community and domestic water supply intakes that are licensed under the Water Act and any related supply infrastructures that have been established within or near the Woodlot licence area have been searched on the government database.
Points of Diversion (Pods) are shown where found in government data records and the (Pods) are classified as either licensed, inactive, or 'active application'. All the Pods are located outside the Woodlot Boundary however there were some water licenses located imediately adjacent to the woodlot boundary in the SE section near Whispering Creek. One groundwater well was mapped within the Woodlot boundary. All Community and domestic water supply intakes that are licensed under the Water Act are located on the maps in appendix II.

### Contiguous areas of sensitive soils:

There are no contiguous areas of sensitive soils on the woodlot licence area that the woodlot licence holder is aware of. Sensitive soils when encoutered during field operations would be addressed at the block level and documented on appropriate files.

### Temporary or permanent barricades that restrict vehicle access:

At the time of preparing this woodlot licence plan there are no permanent or temporary barricades on the woodlot licence area to restrict vehicle access.

### Private property within or adjacent to the woodlot licence area:

See attached WLP map for adjacent tenure information. Private land is denoted as DL5925 for example and are known as 'District Lots' or Private Lots.

### Resource features other than wildlife habitat features and other features where the location must not be disclosed

At the time of preparing this woodlot licence plan, no resource features had been established within the woodlot licence area under the *Government Actions Regulation* (GAR). There were also no resource features within the woodlot licence area that were made "known" by the district manager under the regulations of the *Forest Practices Code of BC Act.*

Significant Karst Features including Karst Caves were recently defined as a new Resource Features in the GAR order for the Sunshine Coast District. No such Karst features have been documented in the WLP to-date.

## AREAS WHERE TIMBER HARVESTING WILL BE AVOIDED

There are no areas in this woodlot licence where timber harvesting will be strictly avoided, no restrictions have been specified.

## AREAS WHERE TIMBER HARVESTING WILL BE MODIFIED

Sensitive Soils: Careful consideration of the advice of a qualified professional will be completed prior to any harvesting activities on areas with sensitive soils.

Private Land: Harvesting adjacent to private property will be planned in a neighbourly fashion. Consultation with the land owner to discuss concerns will help harvest designs ensure residual stands do not damage private land values. Generally harvest boundary within 50m of private land will initiate a meeting request to discuss concerns and ideas that will influence design variables. Final design plans will be documented on the Harvest Map and/or file records.

Scenic Areas: The task of meeting visual design specifications in part can result in modification of harvest designs depending on the several design criteria needed to remain consistent with visual quality objectives. The strategic placement of retention trees to compliment visual design would be described as a modification to the harvest area in general. Careful consideration of the advice of a qualified professional will be completed prior to any harvesting activities on scenic areas.

Description of trees in riparian management zones: Unless exempted by the District Manager, or the harvesting of a road clearing width is required, or the removal of RMA trees is otherwise prescribed, the woodlot licence holder is committed to retaining a range of post harvest stand structures in riparian management zones. Table #1 below in conjunction with the following text describes the modifications undertaken in the riparian management areas:

The amount of retention to remain in a Riparian Management Zone (RMZ) will be determined at the site level by the prescribing Forester and specified in a plan. The factors that will be considered by the prescribing Forester when determining the amount of retention in the RMZ include:

*(a) The type of management regime that is required for a riparian area, having regard to;*
*(i) the relative need to buffer the aquatic ecosystem of a stream from the introduction of materials that are deleterious to water quality or fish;*
*(ii) the role played by trees and under-story vegetation in conserving water quality, fish habitat, wildlife habitat and biodiversity;*
*(iii) the need to maintain stream bank and stream channel integrity;*
*(iv) the relative importance and sensitivity of different riparian classes of streams, wetlands and lakes in conserving water quality, fish habitat, wildlife habitat and biodiversity.*
*(b) The type, timing or intensity of forest practices that can be carried out within the context of a management regime referred to in paragraph (a).*

Gambier Forest Resources will manage riparian areas to maintain their functions in protecting water quality, fisheries habitat, wildlife habitat, and biodiversity. The largest issue surrounding riparian management will be wind firmness and maintenance of the structural integrity of the reserve zone. The retention of residual trees will be highest for an S2-S4 classed stream. The S5/S6 classed streams will have management applied which will minimize debris transportation to lower reaches of the streams. Table #1 provides a description of the stand structure to be retained within areas where timber harvesting will be modified.

| Table #1: Description of Post Harvest Stand Structure to be Retained in Riparian Management Zones | | | | |
|---|---|---|---|---|
| The riparian management zones contain a diversity of tree species, ages, and heights. The post harvest stand structure will maintain stream bank and channel stability, and the integrity of the riparian reserve zone if present. The wildlife tree and large coarse woody debris that provide wildlife values will be maintained. The age, class, species composition and residual tree height will provide for diversity within different stream reaches. | | | | |
| | | | | |
| | | | | |
| Trees to be retained | Species | Fdc, Cw, Hw, Bg, Ss, Dr, Mb, Act and other misc. species. | | |
| | Characteristics | A diversity of tree characteristics will be maintained, especially where they have wildlife tree values to manage a range of age, height, species classes, and unique attributes. | | |
| | | | | |
| Range of Residual Basal Area ($m^2$/ha) | | 0-100% BA/ha | O R | Range of Residual Trees/ha |

Depending on the present stand structure, terrain, wind-throw risk and block configuration the retention level will be uniform, grouped or spatially distinct. In general, under-story and non-merchantable cedar and other conifers of good form and vigour will be maintained as much as possible to provide cover and stream bank stability.

# CONSERVING AND PROTECTING CULTURAL HERITAGE RESOURCES

The following strategy is proposed to conserve and protect cultural heritage resources that are the focus of a traditional use by an aboriginal people and of continuing importance to them. This strategy applies to cultural heritage resources that are not protected under the ***Heritage Conservation Act***. The woodlot licence holder is committed to carrying out forest practices at a time and in a manner that is unlikely to damage or harmfully alter cultural heritage resources.

A review of literature indicates that an Archaeological Impact Assessment (AIA) for the Woodlot was conducted in 1998 however information specific to the Woodlot has not been conveyed to the holder of the licence from that assessment. At the writing of this WLP, the holder documents no known Cultural Heritage Resource Features within Woodlot W0039.

While planning and implementing proposed harvest and road activities, potential impacts on archaeological resources will be minimized. In order to accomplish this, Gambier Forest Resources will endeavour to identify objects, sites, or locations of traditional aboriginal societal practices during field layout and harvest planning stages.

Bands with Traditional Territory within Woodlot W0039 include the Squamish First Nation (SFN) and the Burrard First Nation (BFN). Consultation with these bands is ongoing during the planning stages to avoid or minimize impacts on archaeological resources.

The following 'results and strategies' (Table 2) for managing cultural heritage values will apply.

Table 2: Protecting and Conserving Cultural Heritage Resources (revised Oct.13th, 2011)

| FDU | Result or Strategy |
|---|---|
| WL 0039 | 1. The holder of this WLP will, when constructing a road or harvesting timber under this WLP, do so in a manner consistent with:<br><br>a) conserving or if necessary, protecting cultural heritage resources that are;<br>i) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and are determined to be important valuable and scarce through;<br>(1) documented information sharing between the Holder of this WLP and the affected First Nation prior to the review and comment period of the WLPPR for this WLP and/or;<br>(2) information received from the effected First Nation in accordance with WLPPR S 17.<br>(3) information received from the effected First Nation in accordance with Section 2 below.<br><br>ii) not regulated under the Heritage Conservation Act or are not conserved and protected by other arrangements and;<br>iii) that are likely to be adversely impacted by the activities of the Holder of this WLP and;<br>iv) is capable of being addressed in the context of this WLP.<br><br>b) the timber harvesting rights in W0039 to which this WLP pertains.<br><br>2. The following process will be used to provide the FN with the opportunity to continue to provide cultural heritage information for resources which proposed road building or timber harvesting activities may impact. This pertains to "new" proposed development areas, where "new" refers to areas not previously forwarded to the FN:<br><br>a) The holder of this FSP will send maps of sufficient scale (i.e. 1:20,000) outlining new proposed development areas to the affected First Nation to request new cultural heritage resource information.<br><br>b) New information received from the FN or MOFR within 30 days will be reviewed in the context to which the proposed harvesting activities will impact upon the cultural heritage resource value.<br><br>c) The holder of this WLP will determine what options, if any, exist to mitigate the impacts from proposed road construction and /or harvesting activities. The FN and MFLNRO will be notified in writing, as to what |

| | |
|---|---|
| | actions, if any, will be taken to conserve and/or protect identified cultural heritage resource values that are applicable under 1 (a) of this section.<br><br>3. To the extent that the criteria in paragraph 1 above have been met, for identified cultural heritage resource values, the following strategies apply:<br><br>(a) Cultural Cedar<br>(i) The holder will ensure that First Nations are provided with assistance in locating cedar which may be suitable for cultural requirements, and<br>(ii)To ensure a long and mid-term supply of cedar, the Holder, will plant cedar where ecologically suited on areas in accordance with the stocking standards specified in this WLP.<br><br>(b) Medicinal Plant Species<br>(i) The Holder, upon request, will provide reasonable assistance to a First Nation in the identification of potential medicinal plant species sites suitable for cultural uses ; and<br><br>(ii) once a site has been identified, and determined to be scarce, the Holder, will not harvest timber, and will not construct a road over the site unless there are no other practicable options. |

# WILDLIFE TREE RETENTION STRATEGY

**Note: the proportion of the Woodlot Licence area that is occupied by wildlife tree retention areas is specified in the "PERFORMANCE REQUIREMENTS" section of this plan.**

Briefly stated, the performance requirement for the requirement for the proportion of Woodlot Licence W0039 that is occupied by Wildlife Tree Retention Areas (WTRA) will not be less that 8 percent of the total woodlot area of 400ha minus the 147.6 ha influenced by the draft OGMA's. The minimum total area of WTRA will be 20.2ha, either as a large patch, clumps or individual stems. This 20.2 ha amount translates to 5% of the entire 400 hectares to be applied onto the entire woodlot tenure.

A specific map of WTRA has not been included as part of this strategy although two areas are described in table 4 below and one block related WTRA is shown on the WLP map. An operations map will be retained on file at the W0039 field office to demonstrate how the WTRA requirements (Sec. 52 WLPPR) are achieved.

## INDIVIDUAL WILDLIFE TREES

**a) Species and Characteristics:**

The following table describes the species and characteristics of individual trees that will guide the selection of wildlife trees to be retained.

Table 3: Wildlife Tree Value and Characteristics (All Species)

| HIGH (at least two of the listed characteristics) | MEDIUM | LOW |
|---|---|---|
| • Internal decay (heartrot or natural/excavated cavities present)<br>• Crevices present (loose bark or cracks suitable for bats)<br>• Large brooms present<br>• Active or recent wildlife use<br>• Current insect infestation<br>• Tree structure suitable for wildlife use (e.g., large nest, hunting perch, bear den, etc.)<br>• Largest trees on site (height and/or diameter) and/or veterans<br>• Locally important wildlife tree species | • Large, stable trees that will likely develop two or more of the above attributes for High. | • Trees not covered by High or Medium categories. |

Woodlot W0039 does have a number of veteran (old growth) trees, mostly Douglas fir, scattered throughout the license area. These trees add structural and biological complexity of the second growth forest and will be retained as wildlife trees (except as itemized in item b) below). In some cases second growth trees will be retained as wildlife trees to supply wildlife and biological diversity values and/or for the recruitment of future vets, to vary the age classes on the Woodlot, to reduce wind fetch in long openings, and/or act as a seed source or visual screen.
Wildlife trees can be retained arranged as singles, clumps or groups either internal or external to the harvest proposal.

**b) Conditions Under Which Individual Wildlife Trees May Be Removed:**

If authorized by a cutting permit or road permit, individual wildlife trees may be removed if they become a safety hazard or they become infested with insects which threaten the health of adjacent trees.
[Enter Details]
If authorized by a cutting permit or road permit, individual wildlife trees may be removed if they become a safety hazard or they become infested with insects which threaten the health of adjacent trees.
Specific conditions that influence the decision of where individual wildlife trees may be removed include:

- ✓ Worker safety
- ✓ The significance of forest health risk to surrounding stands
- ✓ The ability to retain other wildlife trees to perform as suitable wildlife habitat, and
- ✓ The availability of wildlife trees and CWD in adjacent openings.
- ✓ The desire to re-assign the Wildlife tree as part of an amended Harvest Plan.

Alternatives to removal of a wildlife tree will be given priority such as the establishment of a 'no work zone' or widening of a riparian width to protect the feature balanced with tree removal farther away from the feature within the RMA. All workers involved with

the removal of potential wildlife trees will be informed of developed standards prior to fieldwork to help mitigate unnecessary removals.

**c) Replacement of Individual Wildlife Trees:**

Individual trees will be replaced if they are of "high" wildlife value and that option presents itself. Replacement trees will be selected using criteria outlined above with a preference for selecting trees that have two or more high wildlife tree value characteristics. If possible, retain stems within stream side reserves. As assignment and tracking of individual WT's is at the block level, if the block is already harvested, finding an alternate in-block replacement WT may not be an option. Remember that overall, the amounts of Wildlife Tree Retention must still be met and an individual tree will not likely take the WLP below target amounts. The appropriate adjustments will be contemplated at the WLP level using the WTRA office map by a qualified professional.

## WILDLIFE TREE RETENTION AREAS

**a) Forest Cover Attributes:**

As part of the Wildlife Tree retention strategy, the amount of such area needs to be quantified. Under the WLPPR the amount calculated must not be lower than 5% of the area of the Woodlot and it does not have to be mapped as the location of good WTRA's can change over time as field works progress and WTRA's are either assigned or re-assigned based on changing forest management decision making. The following however, helps to quantify the Wildlife Tree Retention planning efforts to date. Wildlife Tree Reserve Areas (WTRA's) presented in Table 4 gives the reserve label, unit size, forest cover, and resource value associated with each area in the comments section. Wildlife tree reserve areas (WTRA's) previously assigned to cut blocks at the stand level, when combined with the future WTRA's to be assigned during future operational planning, will supply a significant area of the Woodlot's biodiversity values (including Wildlife Trees).

Retention areas are planned preferably in fully constrained areas for long term retention and where possible all riparian reserve zones are included if known and able to be accurately mapped.
The presently allocated WTRA's for W0039 are shown on the attached 1:5000 Scale WLP maps. Approximately 8.0 ha is found in the WTRA anchored along Mannion creek riparian reserve zone (S2-class known fish stream) starting at the SW corner of the Woodlot up to the bridge crossing. The addition of WTRA can be added above the bridge feature once field classification is verified as S2 in the future. Another WTRA area is Whispering Creek riparian reserve zone (S2-class known fish stream) forming the Eastern boundary of the Woodlot. A 30m width (the portion in the Woodlot up to the point where the stream enters the Woodlot) comprises an area of approximately 3.1 ha of WTRA. These two WTRA's combine to 11.1ha of the targeted 20.2 ha of WTRA on the Woodlot for a total of 55% of the required amount.

Given the multitude of variables considered in locking down the WTRA's (fish streams, resource features, visual buffers, ocean zones, large trees, recreation features, recruitment areas, unique species/form, wildlife anchors, special places, perching presentation, vistas, bluffs, wetland anchors, productivity evaluation etc.) the WTRA's include some representative larger trees (DBH > average operational cruise) with moderate to high value to wildlife and regenerating stands with future wildlife potential.

The wildlife tree retention areas retain a high number of trees that have existing wildlife use and valuable characteristics. There will be many individual trees that are composed of a variety of species, age and form. Within this wildlife tree population there will be an increasing value for wildlife over time as the majority of the high value trees are Douglas fir and red cedar that are long lived species. The naturally recruitment of wildlife trees can occur over time as trees age and either take on old growth like characteristics (wildlife habitat) or turn into snags and eventual biodiversity value as large woody debris.

Table 4: Forest Cover Attributes of Designated Wildlife Tree Retention Areas

| Wildlife Tree Reserve ID | Size (hectares) | Forest Cover Attributes | Comments |
|---|---|---|---|
| WTRA- 1 | 8.0 Mannion | MbCwHw(Fd)<br>836-0/23 | Mixed species stand. Scattered Vet Fir. RRZ of Mannion Creek. |
| WTRA- 2 | 3.1 Whispering Crk | HwFd<br>657-0/27 | Conifer dominated RRZ associated with West side of Whispering Crk. |
| WTRA- future | Unknown at this time | | Future Planned WTRA possible outside of RRZ of creeks |

The official government notices regarding both the winter survival of specified ungulate species and the survival of a Species at Risk (notice) applicable to the Sunshine Coast Forest District where evaluated for this WLP to ensure consistency and the following comments are offered below to the reader of this plan.
The Notices for wildlife rely on the Identified Wildlife Management Strategy Version 2004 (IWMS) to guide the identification of suitable habitat required for the survival of species at risk and regionally important wildlife.

Notice- Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Winter Survival of Ungulate Species in the Sunshine Coast Timber Supply Area.

*Critical Mountain Goat Winter Habitat is not found within this license.*

Notice- Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Survival of Species at Risk in the Sunshine Coast Timber Supply Area.

**Coastal Tailed Frog:** The Notice amount calls for a maximum of 30ha, not exceeding an impact to the MTHLB of 20 ha.

*Given the relatively small amount of area allocated to the protection of the coastal tailed frog through the notice, the SCFD requirement has been met with the creation of a Frog management area located in the Mt Elphinstone geography managed by BC Timber Sales (BCTS).*

**Marbled Murrelet:**
*No nest of the Marbled Murrelet is known to exist on this plan.*

*The Notice amount calls for:*

1) *All suitable nesting habitat within the non-contributing land base.*
2) *All suitable nesting habitat located within OGMA.*
3) *Suitable nesting habitat to a maximum of 495ha of MTHLB.*

In order to be consistent with the Notice criteria, future harvest areas are to be selected for conservation management in the Howe FDU based on;

a) All suitable nesting habitat within the non-contributing land base,
b) All suitable nesting habitat located within OGMA, and
c) Suitable nesting habitat to a maximum impact of 495ha.

Note 1: For the case of a Wildlife Habitat Area, the spatial delineation is maintained by government as part of the Order that legally establishes the WHA. Since the Notice was given, 11 WHAs have been established in the Howe Landscape Unit and 2 WHAs have been established in the Brittain Landscape Unit. These 13 WHAs account for an impact on the Mature THLB of 428 ha, which leaves only 67 ha available for future WHAs within the THLB in the SCFD.

Note 2: Inventory work completed in 2003, 2004, and 2005 to identify high priority Marbled Murrelet habitat remains in draft and is not shown. Refinements of suitable nesting habitat provided by acceptable inventory methods will be preferred to the habitat algorithm initially proposed by the Habitat Recovery Team until such time as the final WHA amounts are identified in the SCFD.

Note 3: The draft OGMA's located within the Howe Landscape Unit have been shown on the attached WLP map and are located outside the tenure lines of the WLP.

The review of the notice of Marbled Murrelet within the context of this license and the SCFD would indicate that the remaining outstanding habitat will not be allocated from this tenure. To be consistent with the order, if a nest of the Marbled Murrelet is found during the field planning phases of the woodlot, discussion with a qualified professional surrounding the habitat protection needs and possible designation of a formal WHA would be undertaken to ensure adequate protection is afforded and the intent of the order is being met. To allocate the SCFD remaining amounts to a small WLP land base would be inconsistent with maintaining an economically viable supply of commercial timber from the woodlot licence area.

**Grizzly Bear:** *Critical Grizzly Bear Habitat is not found within this license*

**Vananda Creek Sticklebacks:** *The Howe FDU is not known to have any Stickleback populations.*

**"Queen Charlotte" Goshawk:**
*The notice identifies the amount distribution and attributes consistent with the habitat required. The Woodlot holder anticipates that the potential area if set aside be built around active nest sites. There are currently no known active nests within the area to which the Notice applies, managed under this Woodlot License Plan.*

Note 1: To determine suitable Northern Goshawk (Accipiter gentiles laingi) habitat a habitat supply model was developed for the Sunshine Coast Forest District, (shared between major licensees) that could accurately predict amounts of suitable habitat based on available forest cover attributes.

From this model three goshawk management areas located in the Cortes FDU (West Redonda Island) have been spatially identified. The amounts and impacts associated for the three goshawk management areas more than meet the Notice requirement and would fulfil the district (SCFD) requirements until such time as WHA's are declared.

**There currently is no Notice for Survival of Regionally Important Wildlife.**

b) **Conditions Under Which Trees May Be Removed from Wildlife Tree Retention Areas:**

If authorized by a cutting permit or road permit, trees may be removed if they become a safety hazard, if they become infested with insects or diseases which threaten the health of adjacent trees or there is a need to remove the trees to provide access to adjacent stands. If providing access to adjacent stands, the number of quality wildlife trees removed will be no more than reasonably needed to provide the access.

Stand-specific issues that influence the decision of where salvage may be appropriate for WTRA's include:

- ✓ Worker safety
- ✓ The significance of forest health risk to surrounding stands
- ✓ The ability to retain other wildlife trees to perform as suitable wildlife habitat, and
- ✓ The availability of wildlife trees and CWD in adjacent openings.

- ✓ The desire to re-assign the Wildlife Tree Retention Area as part of an amended Harvest Plan.

Salvage of wind thrown timber is permitted within WTRA's when not in a RRZ, if the area loses significant character of the function supplied by the wildlife tree area. This would generally occur in wind-throw impacts of 25% to 50% of the dominant or co-dominant trees. This would focus on removal of downed timber only, protecting the standing green.
If more significant amounts of wildlife trees are lost due to wind-throw or other catastrophic events (exceeds 50% of the dominant or co-dominant trees) in a wildlife tree reserve area then salvage of the damaged and remaining stems is permitted.
The salvage of portions of the WTRA either singles, clumps, or impacted areas created for improved safety to people is good forest management. Salvage of the area will be allowed considering other environmental constraints and the replacement strategy below.

**c) Replacement of Trees Removed from Wildlife Tree Retention Areas:**

Where salvage/harvest is planned and authorized within a non RRZ wildlife tree reserve area, the replacement with another suitable area in size, value and species composition will be assessed by a qualified professional. This area must meet the target amount. When all or part of a WTRA is salvaged, the salvaged area should be replaced with other suitable habitat in the nearest possible location if the qualified professional determines the WTRA function has been reduced to a point where replacement is warranted. If a WTRA suffers blow down, but is not salvaged, it will not be replaced. Replacement areas must have equal or better wildlife values. For non-riparian WTRA's attempts will be made to incorporate important features such as snags, and other significant wildlife features.

# MEASURES TO PREVENT INTRODUCTION OR SPREAD OF INVASIVE PLANTS

☐ Exempted

The holder of this Woodlot will use three complimentary strategies to counter the introduction or spread of invasive plant species likely to be the result of the holder's forest practices.

1) Prevention and Control
2) Detection of invasive plant species that elude prevention
3) Management or elimination of invasive plant species

**PREVENTION and CONTROL**

The holder's foresters will be encouraged to review the relevant alien species web site and review the identification, control and management of invasive plants.

**The goal of this WLP is to annually identify known sites of invasive plants and sites that are at high risk to invasive plant establishment through their forest practices within the area under this plan**

*Prevention through avoidance*

Preventative measures to minimize the occurrence and spread of invasive plants will include grass seeding of exposed soils following soil disturbance where the introduction or spread of invasive plants is likely. Application of grass seed to constructed road cut and fill slopes or recently deactivated roads is timed by compatible weather and season. Re-vegetation of exposed soils following the completion of road construction or deactivation is within two years. Grass seed mixtures will include nitrogen fixing legume species to supplement nutrient availability for trees planted on rehabilitated sites. The grass seed mixes used for re-vegetation are to meet the standards for reclamation set out in Canada's Seeds Regulation.

If moderate to high risk invasive plants are likely to establish in cut blocks harvested during the forest regeneration phase, the Holder of this WLP will through normal reforestation practices:

a) Establish a stand of coniferous and/or deciduous crop trees consistent with the applicable stocking for the area on or before the regeneration date; and
b) Meet Free Growing requirements consistent with the applicable stocking standards on or before the late Free Growing Date so that the stand will form a closed canopy to suppress seed and vegetative production of shade intolerant invasive plants.

**Detection of Invasive Plant Species that Elude Prevention;**

Invasive plants will be detected through company planting surveys, regeneration survival surveys and free-to-grow surveys. Action plans will be developed to combat the spread of invasive plants, if the introduction or spread is likely to be the result of the company's forest practices. When discovered, invasive plants will be mapped and voluntarily reported to the Ministry of Forests.

**Management or Elimination of Invasive Plant Species**

If invasive plants are discovered and if the introduction or spread is likely to be the result of equipment, machinery, or clothing, then prior to transport, the cleaning of tires, tracks, bucket, undercarriage, etc. on machines will be completed and the removal of burrs or plant components from clothing should be normal practice.

# MEASURES TO MITIGATE EFFECT OF REMOVING NATURAL RANGE BARRIERS

☐ Exempted

The woodlot licence holder is committed to carrying out the following measures if the woodlot licence holder's forest practices remove or render ineffective a natural range barrier that was identified by a range tenure holder who is authorized to graze livestock on the woodlot licence area or the Ministry of Forests and Range Agrologist:

There are no range tenures on Gambier Island therefore no measures or activities are required or proposed.

# STOCKING INFORMATION FOR SPECIFIED AREAS

Unless exempted by the district manager, the stocking standards indicated below apply to areas where the establishment of a free growing stand is not required and harvesting is limited to commercial thinning, removal of individual trees, or a similar type of intermediate cutting, and for harvesting special forest products.

☐ For the purposes of section 12 and 34(3) of the WLPPR the Uneven-aged Stocking standards for single-tree selection, as found in the MFR publication "Reference Guide for FDP Stocking Standards", are adopted. A copy of these stocking standards are included in Appendix I.

☒ The stocking standards for the purposes of section 12 and 34(3) of the Woodlot Licence Planning and Practices Regulation are found in the Appendix I.

(See attached text and tables in appendix I)

# PERFORMANCE REQUIREMENTS

## SOIL DISTURBANCE LIMITS

☒ Default WLPPR s.24(1)(b):

- 8% of Net Area to be Reforested

☐ Alternative WLPPR s.24(1)(a):

## PERMANENT ACCESS STRUCTURES

☒ Default: WLPPR s.25:
The maximum area occupied by permanent access structures is as follows:

1. For Cutblocks ≥ 5 ha – 7% of the total cutblock area
2. For Cutblocks < 5 ha – 10% of the total cutblock area
3. For the Total Woodlot Licence Area – 7% of the total Woodlot Licence area

☐ Alternative WLPPR s.25:

## STOCKING STANDARDS

☐ Default: WLPPR s.35(1)(b): Adopt the stocking standards, regeneration dates and free growing dates described in the MFR publication "Reference Guide for Forest Development Plan Stocking Standards", as amended from time to time, that are in place on the commencement date for the area.
See http://www.for.gov.bc.ca/hfp/silviculture/stocking_stds.htm

☐ Option: WLPPR s. 35(1)(a): Use of the current stocking standards, regeneration dates and free growing dates described in the MFR publication "Reference Guide for Forest Development Plan Stocking Standards", the pertinent sections (including footnotes) are shown in Appendix II. [Enter Details]

☒ Alternative WLPPR s. 35(1)(a): The stocking standards, regeneration dates and free growing dates are indicated in Appendix II.

Appropriate rationale is added in text format and to assist in applying the standards to the WLP. The general changes to the stocking standards (rules for modification) are noted as well.

Free Grow Period
Late Free Grow Period is 20 years (tables in appendix I used did not specify this new FRPA specification).

Regen Delay Milestones
The regen delay for all site series was originally set at 3 years (regional standards) but is now extended to 4 years. This edit is requested as an exemption to further allow the holder to out-plant tree stock into his local nursery which is protected behind deer fencing. The stock will achieve advanced tree heights prior to planting into the assigned Standards Units and thereby avoid costly deer browse and associated fill planting or protection apparatus. Keep in mind the holder must still meet Free Growing obligations and while extending the regen delay seems counter productive at first, the stock has been planted in 5 gallon pots and is being tended in the nursery until its out-planting. Once planted, regen delay can be declared with the benefit of knowing the tree has been in the nursery for part of its life healthy and protected with good calliper and tree height.

## WIDTH OF STREAM RIPARIAN AREAS

☒ Default WLPPR s.36(4)(b):

The minimum width of the riparian reserve zone, riparian management zone and riparian management area are as described in WLPPR s.36(4)(b).

☐ Alternative WLPPR s.36(4)(a):

**WIDTH OF WETLAND RIPARIAN AREAS**

☒ Default: WLPPR s.37(3)(b) The minimum width of the riparian reserve zone, riparian management zone and riparian management area are as described in WLPPR s.37(3)(b).

☐ Alternative WLPPR s.37(3)(a):
[Enter Details]

**WIDTH OF LAKE RIPARIAN AREAS**

☒ Default: WLPPR s.38(2)(b) The minimum width of the riparian reserve zone, riparian management zone and riparian management area are as described in WLPPR s.38(2)(b).

☐ Alternative WLPPR s.38(2)(a):

**RESTRICTIONS IN A RIPARIAN RESERVE ZONE**

☒ Default: WLPPR s.39(1) Cutting, modifying or removing trees in a riparian reserve zone is limited to the purposes described in Section 39(1) of the WLPPR.

☐ Alternative WLPPR s.39(1): Additional purposes for cutting, modifying or removing trees in a riparian reserve zone.

☐ WLPPR s.39(2.1): The following road construction is proposed in a riparian reserve zone:

**RESTRICTIONS IN A RIPARIAN MANAGEMENT ZONE**

☐ Default: WLPPR s.40(1)(b)(c) or (d) Construction of a road in a riparian management zone is limited to the conditions described is Section 40(1) of the WLPPR without additional conditions to allow road construction being provided in the woodlot licence plan.

☒ Alternative WLPPR s.40(1)(a): Propose the construction of a road in a riparian management zone which does not appear to satisfy the criteria listed in WLPPR s.40(1)(b)(c) or (d).

Construction of a road in a riparian management zone is limited to the conditions described in Section 40(1) of the WLPPR *or*
For the purposes of Section 40(1)(a) of the WLPPR, roads may be constructed in a riparian management zone if a road grade previously existed in this location and it is practicable to re-establish the road on the old grade.
Restrictions and conditions on road construction, maintenance and deactivation activities and on cutting, modifying or removing trees in a riparian management zone are as described in Section 40(2)(3)(4).

## WILDLIFE TREE RETENTION

Unless exempted by the district manager, the proportion of the Woodlot Licence area that will be occupied by wildlife tree retention is:
☐ Default WLPPR s.52(1)(a): [Enter Details] % specified for the area in a land use objective,

☐ Default WLPPR s.52(1)(c): 8 % of the woodlot licence area

☒ Alternative WLPPR s.52(1)(b): **5 %** of the total Woodlot Licence area

The performance requirements for the requirement for the proportion of Woodlot Licence W0039 that is occupied by Wildlife Tree Retention Areas (WTRA) will not be less that 8 percent of the total woodlot area of 400ha *minus* the 147.6ha influenced by the draft OGMA's. The minimum total area of WTRA will be 20.2ha, either as a large patch, clumps or individual stems.

Mathematically, 400ha -147.6 ha = 252.4ha or rounded to 252ha.
8% applied to 252ha amounts to 20.16 ha.

20.16ha divided by 400 ha x 100% = 5.04% or rounded to 5%.

This 5% amount can be assigned anywhere in the 400 ha Woodlot area including the 500m buffer areas. In essence, the reduced amount is attributable to the high proportion of long term set aside area (draft OGMA) right adjacent to the Woodlot boundary. The set aside is part of the draft Howe Landscape Planning process and ensures that adequate landscape amounts of habitat are set aside to address these targets. The complimentary stand level WTRA amounts provide further habitat at the block or stand level. The combined landscape and stand level amounts all work towards addressing habitat needs within the Woodlot on Gambier Island.

## COARSE WOODY DEBRIS

Unless exempted by the district manager or the WLPPR, the minimum amount of coarse woody debris to be left on areas where there is a requirement to establish a free growing stand is

☒ Default: WLPPR s.54(1)(b)

- Area on Coast – minimum retention of 4 logs per ha ≥ 5 m in length and ≥30 cm in diameter at one end.

☐ Default: WLPPR s.54(1)(b)

- Area in Interior – minimum retention of 4 logs per ha ≥ 2 m in length and ≥ 7.5 cm in diameter at one end.

☐ Alternative WLPPR s.54(1)(a):

## RESOURCE FEATURES

Unless exempted by the district manager, the woodlot licence holder will

☒ Default WLPPR s.56(1)(b): Ensure that forest practices do not damage or render ineffective a resource feature.

☐ Alternative WLPPR s.56(1)(a):

**********

**Note: Only the performance requirements in Part 3 (Practice Requirements) of the WLPPR for which an alternative can be proposed are shown in this Woodlot Licence Plan. The remaining performance requirements in Part 3 are not shown, nor are the performance requirements in Part 4 (Roads).**

# II. SUPPLEMENTAL INFORMATION TO SUPPORT OF THE PROPOSED WOODLOT LICENCE PLAN

## 1. REVIEW AND COMMENT

### a) Advertising

A copy of the advertisement draft was reviewed by B. Kukulies May 18th, 2011 for improved wording. A proof document was signed by May 19th and sent to the Coast Reporter for two issues; May 27th and June 3. PDF tear sheets are attached and an invoice available if requested.
Bill Errico posted Advertisement in Gambier Island for locals.
A copy of the plan was made available at the Gibsons & District Public Library.

### b) Referrals

Meeting of May 12, 2011 with C. Anderson & B. Kukulies creates shortlist for Woodlot referral;
Squamish First Nations (FN):
Squamish Nation Chief Bill Williams
Via electronic submission sent May 26, 2011.

Burrard First Nation Chief Justin George & Council
Via electronic submission sent May 26, 2011.

Islands Trust Gambier Island:
Joyce Clegg, Gambier Island Trustee
Via electronic submission sent May 26, 2011.

Ministry of Forests, Lands and Natural Resource Operations (FLNRO):
Chuck Anderson via electronic submission sent June 2, 2011.

### c) Copy of Written Comments Received

Copies of all letters received from the formal referrals are attached for your review. This includes letter of June 15th, 2011 from Sonja Zupanec of Islands Trust. A submission to MFLNRO was given June 2nd to facilitate initial comments although the final submission to MFLNRO will be sent after the 30 day Review and Comment period.

One comment from Ross Muirhead received from the Gibsons & District Public library as attached.

d) Revisions Made as a Result of Written Comments Received

No revisions were made to the plan as a result of any public comments or written responses received over the review and comment period.

## 2. EFFORTS MADE TO MEET WITH FIRST NATIONS

First Nations applicable to the plan with contact information for Squamish Nation (SFN) and Burrard First Nation (BFN) are attached. The AOA and AIA of 1998 are referenced (see attached email).

**Email submission of plan:**
SFN: email submission of May 26th, 2011, Out of office reply from Lisa Wilcox.
BFN: email submission of May 26th, 2011. No out of office reply.

**Follow up phone calls & email:**
May 30th, 2011;
SFN: phone call to Lisa Wilcox and left message in regard to the referral.
BFN: phone call to Jason Forsyth and left message in regard to the referral.

May 31st, 2011;
SFN: phone call to Lisa Wilcox and left message in regard to the referral and to call back at her convenience.
BFN: phone call but no answer. No message today as just left one yesterday.

June 15th, 2011;
SFN: phone call to Lisa Wilcox and left detailed message in regard to the referral. As per recording I left a return phone number and waited for return call.
BFN: phone call to Jason Forsyth and left detailed message in regard to the referral for information exchange, confirmation of receipt and any questions.

June 16th, 2011;
SFN: phone call to Lisa Wilcox office, receptionist put thru to Lisa as she was in office. However, voice machine came on so I left brief message to return call. Next I drafted an email response (June 16) with further information exchange and awaited response.
BFN: phone call to Jason Forsyth and left brief message again in regard to W0039 Referral on Gambier. Next I drafted an email response (June 16) with further information exchange and awaited response.

June 21st, 2011;
SFN: Lisa Wilcox conversation today, Lisa did forward to Jeff Fischer all email and plans. However, their Legal Group person was currently on holiday and I could expect a letter of response probably next week. Good discussion on the Band procedure and likely need for an AIA. Await letter.
MFLNRO: Spoke to Brian Kukulies on the need for AIA requirements and we reviewed the mechanics of SFN 1998 assessments albeit the details themselves are confidential.

BFN: phone call to Jason Forsyth and left brief message again in regard to W0039 Referral on Gambier. I referenced my previous calls, my recent email (June 16) and left a 'please call' request. Await return call.

July 13th, 2011;
SFN: Received letter dated July 4th, 2011 from SFN.

July 14th, 2011;
SFN: email Brian Kukulies SFN letter. I called Brian Kukulies today to discuss SFN letter of July 4, 2011 to clarify the AOA, and AIA done in 1998. FMLNRO is to forward the AIA and AOA as information exchange to SFN. The 'add on' area was consulted on but not part of AIA and AOA (email of July 14, 2011 attached).
Await next steps stemming from MFLNRO efforts to exchange information. In the mean time, prepare final submission to MFLNRO.

BFN: phone call to Burrard Band, no answer, left message in regard to W0039 consultation and information exchange for Jason Forsyth's voice message recording referencing email of May 26, 2011 etc. I called Brian Kukulies today to discuss BFN referral process. Brian mentioned they were just recently added as a new Band for referral purposes for W0039. I will keep documenting attempts to contact.

Late in the day, Jason Forsyth called! Busy obviously, he acknowledged he got the plan and all my messages and noted he was late in responding but he would try to get to it next week as he is 'off' as of today. He requested a shape file of the tenure to help run an initial screening of their records to facilitate comments. I sent a shape file of the tenure. I await his response.

## 3. EXEMPTIONS

### Free Growing Stand Exemption under s. 78 WLPPR from FPPA s. 29

WLPPR s. 34(1) applies in all situations or circumstances under the WLP where a free growing stand is required to be established under FRPA s. 29. *Except where as follows:* ***In addition to the circumstances established under WLPPR s. 34(1): within areas that will be considered for salvage removal of special forest products (products as described in the Coastal Appraisal Manual) or the removal of endemic wind thrown trees; stocking standards will not be applicable in harvesting areas where trees are completely removed in a contiguous unit of less than 1 ha. Or; where the contiguous area is not applicable (i.e. single tree removal) and the volume in the general area (logical unit) is ≤500m3, no stocking standards will be applicable***

## 4. RATIONALE IN SUPPORT OF PROPOSED ALTERNATIVE PERFORMANCE REQUIREMENTS

**A. PERFORMANCE REQUIREMENTS: Alternate Stocking standards;** the rationale is explained in the text of the document above. For example, the 4yr RG delay specific to the Woodlot and the 20 year Free Grow target are explained above.
Also consider that, the Stocking Standards in Appendix I used for this Woodlot were based on the approved stocking standard for a small Community Forest and its

methodology is well explained in the text and tables of this appendix allowing the reader various options to apply depending on the objective of the harvest proposal. This includes various modifiers to apply to the basic standard (i.e. ELK standards) or how to apply even or un-even stocking standards.

**B. PERFORMANCE REQUIREMENTS: Alternate RMA Standards;** For the purposes of Section 40(1)(a) of the WLPPR, roads may be constructed in a riparian management zone if a road grade previously existed in this location and it is practicable to re-establish the road on the old grade.
This alternate standard allows the holder to utilize old existing road grades that are already established within the RMA. These features have typically already had trees modified in the RMA and if road works are applied can usually add improvements to the old road grades further protecting the existing RMA function if the otherwise 'no works' option was applied. The way the default standard was worded, the test of 'higher risk' and 'practicality' and being a 'stream crossing' needed proving before proposing the road route. This alternative standard is less restrictive and is still intended to add further improvement to the RMA while facilitating the licence holder's access needs.

**C. PERFORMANCE REQUIREMENTS: Alternate WTP amount <8% with adjacent OGMA Standards;**
The specified amounts in Section 52(1) of the WLPPR are documented as follows; It specifies that the proportion of the Woodlot Licence area that is dedicated to wildlife tree retention areas have to be no less than the least of the following:

- The proportion specified for the area in a land use objective, or
- The proportion specified in the WLP, or
- 8% of the Woodlot licence area.

As seen in the PERFORMANCE REQUIREMENT text, the 5% amount is a reduced amount. Given that the Howe LU is in its draft format, that left an 8% amount to be contemplated under the WLPPR. The 5% is the proportion specified in the WLP and the rationale is provided in the stated mathimatical calculation supported by the GIS query found in the appended maps. Simply stated the reduced amount is attributable to the high proportion of long term set aside area (draft OGMA) right adjacent to the Woodlot Boundary.

# APPENDICES

# APPENDIX

# Appendix 1

# Stocking Standards

## 1.0 FORWARD

Pursuant to the Woodlot Planning and Practices Regulation section 35, the following tables are the stocking standards that are to be applied to cut blocks harvested under this Woodlot License Plan (WLP-W0039).

The standards recognize several silviculture systems and regeneration situations that may occur as a result of harvesting or other disturbances.

The tables and standards herein are based on the Provincial publications:

- Tree Species and free Growing Stocking Standards Guidelines (May 2000) for the Vancouver Forest Region;
- Establishment to Free Growing Guidebook (Version 2.2, revised May 2000);
- A Field Guide for Site Identification and Interpretation for the Vancouver Forest region (1994, Land Management Handbook Number 28)

## 2.0 EVEN-AGED MANAGEMENT

The following standards apply to blocks and/or standards units where even aged management is practiced and are applicable to the following silviculture systems:

- Clear-cut;
- Clear-cut with (Group and/or Disbursed) Reserves;
- Retention, where edge influence is less than 100%, within openings only.

The tables cover site series commonly found within the Sunshine Coast Timber Supply Area for the following biogeoclimatic (BEC) variants: CWHxm & CWHdm.

2.1 Stocking Standards for W0039, Sunshine Coast Forest District. The following tables outline the stocking standards that apply to even-aged management and layer 4 of multi-layered stands.

| Table 1 | | | Regeneration Guide | | | | | Min | |
|---|---|---|---|---|---|---|---|---|---|
| ID # Assigned | BGC Classification | | Species | | Stocking | | | Inter-tree Spacing | Regen. Delay |
| | | | Species/Minimum FG Height (m) | | Target | MIN p&a | MIN p | | (Max yrs) |
| | Zone/SZ | Series | Preferred (p) | Acceptable (a) | (well-spaced/ha) | | | (m) | |
| | CWHxm | 01 | Fd/3.0 | Hw[24]/2.0 Cw/1.5 Pw[31]/2.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 02 | Pl/1.25 Fd/2.0 | | 400 | 200 | 200 | 2.0 | 4 |
| | | 03 | Fd/2.0 Pl[6]/1.25 | Cw/1.0 | 800 | 400 | 400 | 2.0 | 4 |
| | | 04 | Fd/3.0 | Cw/1.5 Pw[31]/2.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 05 | Cw/2.0 Fd/4.0 | Hw/1.75 Pw[31]/2.5 Bg[53]/3.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 06 | Cw/1.5 Hw/2.0 Fd[18]/3.0 | | 900 | 500 | 400 | 2.0 | 6 |
| | | 07 | Cw/2.0 Fd/4.0 | Bg/3.5 Hw/1.75 Ss[35,56]/4.0 | 900 | 500 | 400 | 2.0 | 4 |
| | | 08 | Cw/2.0 Ss[35]/4.0 | Bg/3.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 09 | Cw[1]/2.0 | Bg[1]/3.5 Ss[35,56]/3.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 11 | Pl[1]/1.25 | Cw[1]/1.0 | 400 | 200 | 200 | 2.0 | 4 |
| | | 12 | Cw[1]/1.0 | Hw[1]/2.0 Pw[31]/2.5 Ss[35,56]/2.5 | 800 | 400 | 400 | 2.0 | 4 |
| | | 13 | Cw/2.0 Bg/3.5 Fd/4.0 | Ss[35,56]/4.0 | 900 | 500 | 400 | 2.0 | 4 |
| | | 14 | Bg[1]/3.5 Cw[1]/2.0 | Ss[35,56]/3.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 15 | Cw[1]/2.0 | | 800 | 400 | 400 | 2.0 | 4 |
| | | Root Rot Sites All | Cw/1.5 Pw/2.5 | Pl/1.25 | 900 | 500 | 400 | 2.0 | 4 |

| Table 1 | | | Regeneration Guide | | | | | Min | |
|---|---|---|---|---|---|---|---|---|---|
| ID # Assigned | BGC Classification | | Species | | Stocking | | | Inter-tree Spacing | Regen. Delay (Max yrs) |
| | | | Species/Minimum FG Height (m) | | Target | MIN p&a | MIN p | | |
| | Zone/SZ | Series | Preferred (p) | Acceptable (a) | (well-spaced/ha) | | | (m) | |
| | **CWHdm** | 01 | Fd/3.0 Hw[24]/3.0 | Cw/1.5 Pw[31]/2.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 02 | Pl/1.25 Fd/2.0 | | 400 | 200 | 200 | 2.0 | 4 |
| | | 03 | Fd/2.0 | Cw/1.0 Hw/2.0 | 800 | 400 | 400 | 2.0 | 4 |
| | | 04 | Fd/3.0 | Cw/1.5 Pw[31]/2.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 05 | Cw/2.0 Fd/4.0 | Hw/4.0 Pw[31]/2.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 06 | Cw/1.5 Hw/3.0 | Fd[1]/3.0 | 900 | 500 | 400 | 2.0 | 6 |
| | | 07 | Cw/2.0 Fd/4.0 Bg/3.5 | Hw/4.0 Ss[35,56]/4.0 | 900 | 500 | 400 | 2.0 | 4 |
| | | 08 | Bg/3.5 Cw/2.0 | Ss[35,56]/3.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 09 | Cw[1]/2.0 | Bg[1]/3.5 Ss[35,56]/3.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 11 | Pl[1]/1.25 | Cw[1]/1.0 | 400 | 200 | 200 | 2.0 | 4 |
| | | 12 | Cw[1]/1.0 | Hw[1,2]/2.0 Pw[31]/2.5 Ss[35,56]/3.0 | 800 | 400 | 400 | 2.0 | 4 |
| | | 13 | Bg/3.5 Cw/2.0 Fd[1]/4.0 | Ss[35,56]/4.0 | 900 | 500 | 400 | 2.0 | 4 |
| | | 14 | Bg[1]/3.5 Cw[1]/2.0 | Ss[35,56]/3.5 | 900 | 500 | 400 | 2.0 | 4 |
| | | 15 | Cw[1]/1.0 | | 800 | 400 | 400 | 2.0 | 4 |
| | | Root Rot Sites All | Cw/1.5 Pw/2.5 | Pl/1.25 | 900 | 500 | 400 | 2.0 | 4 |
| Riparian Treatment | **CWH** | All | Cw/2.0 Ss/4.0 Hw/4.0 Bg/3.5 Ba/2.5 Fd/4.0 | Act/4.0 Dr/4.0 | 600 | 300 | 200 | 2.0 | 4 |
| | | | | | | | | | |
| Hardwood | **CWH** | See Below* | Dr/4.0 | Mb/4.0 | 1500 | 1000 | 1000 | 2.0 | 4 |
| | | | | | | | | | |
| Hardwood | **CWH** | See Below* | Dr/4.0 | Mb/4.0 | 1100 | 700 | 700 | 2.0 | 4 |
| | | | | | | | | | |

*Sub zones and Site series suitable for alder management
CWH dm 01(non salal) 05, 06 (non salal) 07, 08, 09, 13, 14
CWH xm1/2 05, 06 (non salal) 07, 08, 09, 13, 14. xm2 non salal phase 01 is acceptable for minor inclusions within other mgt.units.

**Conifer Tree Species**
"Ba" means amabilis fir;
"Bg" means grand fir;
"Bl" means subalpine fir;
"Bp" means noble fir;
"Cw" means western red cedar;
"Fd" means Douglas-fir;
"Hm" means mountain hemlock;
"Hw" means western hemlock;
"Lt" means tamarack;
"Lw" means western larch;
"Pa" means whitebark pine;
"Pl" means lodgepole pine;
"Pw" means white pine;
"Py" means ponderosa pine;
"Sb" means black spruce;
"Se" means Engelmann spruce;
"Ss" means Sitka spruce;
"Sw" means white spruce;
"Sx" means hybrid spruce or interior spruce;
"Sxs" means hybrid Sitka spruce;
"Sxw" means hybrid white spruce;
"Yc" means yellow cedar.

**Broadleaf Tree Species**
"Acb" means balsam poplar;
"Act" means black cottonwood;
"At" means trembling aspen;
"Dr" means red alder;
"Ep" means common paper birch;
"Mb" means bigleaf maple;
"Qg" means garry oak;
"Ra" means arbutus;

"**Biogeoclimatic unit**" or "**BGC classification**"

means the zone, subzone, variant and site series described in the most recent field guide published by the Ministry of Forests for the identification and interpretation of ecosystems, as applicable to a harvested area.

"**MIN** or "**Min**" means minimum

| | **Footnote** |
|---|---|
| 1 | elevated micro sites are preferred |
| 2 | suitable on thick forest floors |
| 3 | restricted to coarse-textured soils |
| 4 | restricted to medium-textured soils |
| 5 | footnote retired |
| 6 | restricted to nutrient-very-poor sites |
| 7 | restricted to nutrient-medium sites |
| 8 | restricted to steep slopes |
| 9 | restricted to southerly aspects |
| 10 | restricted to northerly aspects |
| 11 | restricted to crest slope positions |
| 12 | suitable on cold air drainage sites |
| 13 | restricted to upper elevations of biogeoclimatic unit |
| 14 | restricted to lower elevations of biogeoclimatic unit |
| 15 | restricted to northern portion of biogeoclimatic unit in region |
| 16 | restricted to southern portion of biogeoclimatic unit in region |
| 17 | restricted to western portion of biogeoclimatic unit in region |
| 18 | restricted to eastern portion of biogeoclimatic unit in region |
| 19 | restricted, not in Queen Charlotte Islands |
| 20 | restricted, not near outer coast |
| 21 | restricted to mainland |

22 restricted to southern Gardner Canal-Kitlope area
23 restricted to trial use
24 suitable (as a major species) in wetter portion of biogeoclimatic unit
25 suitable on sites lacking salal
26 suitable minor species on salal-dominated sites
27 partial canopy cover required for successful establishment
28 Limited by moisture deficit
29 risk of heavy browsing by moose
30 risk of porcupine damage
31 risk of white pine blister rust
32 limited by growing-season frosts
33 footnote retired and replaced with footnote 'a'
34 risk of snow damage
35 risk of weevil damage
36 suitable major species on salal-dominated sites
37 risk of heart rots
38 footnote retired
39 avoid exposed and windy sites
40 risk of redheart
41 limited by poorly drained soils
42 restricted to fresh soil moisture regimes
43 suitable on mainland coast only (QCI only)
44 suitable in areas with stronger maritime influence
45 suitable in areas with stronger continental influence
46 restricted to area north of the Dean Channel
47 risk of balsam wooly adelgid
48 risk of heavy browsing by deer
49 applies only to rust resistant, planted stock.
50 restricted to sites where the species occurs as a major species in a pre-harvest, natural stand
51 restricted to areas with proven Pl performance
52 restricted to sheltered micro sites with deep soil
53 minor component

| | |
|---|---|
| 54 | risk of unsuccessful release of advance regeneration |
| 55 | acceptable in sx-sm portion of site series<br>Must be present in the pre-harvest stand |
| 56 | and be restricted to weevil resistant stock |
| 61 | acceptable on cold air drainage sites only |
| # | **Broadleaf Management Constraints** |
| a | productive, reliable, and feasible regeneration option |
| B | limited in productivity, reliability and/or feasibility |

## 2.2 Rules for Modifying General Stocking Standards (as modified with new sites under rule 3, and add Rule #5 & #6)

RULE NUMBER ONE - **Site Series Mosaics/Complexes**

Where more than one site series is located within a logical standard unit area the standard that applies will be that of the dominant site series. This standard can be modified with the inclusion of additional species selected from the standard of the subdominant site series for those specific areas of the mosaic or complex. These additional components to the standard will be supported by a rationale, documented and should be incorporated into the Site Plan.

RULE NUMBER TWO - **Transitional Sites**

On transitional sites occurring between two BEC units the standard that applies will be that of the dominant BEC unit. This standard can be modified with the inclusion of components of the standard associated with the sub-dominant BEC unit. These additional components to the standard will be supported by a rationale, documented and should be incorporated into the Site Plan.

RULE NUMBER THREE - **Minimum Inter-tree Distance (MITD)**

The general MITD of 2.0 meters can be reduced down to 1.5 meters for any given site where productive and plantable sites are limited by pre-harvest site characteristics. These can include but are not limited to colluvial sites, wet sites, disturbed roadsides, or other sites where site conditions preclude the attainment of

the target stocking standards. Justification for a reduced MITD will be supported by a rationale, documented and should be incorporated into the Site Plan.

*Colluvial sites* are those with large surface rocks or boulders or sub-surface rocks. On these sites soil is either shallow or limited to gaps between rocks. These sites can be very localized or extensive in nature such as large deposition zones from historic slides, talus slopes, avalanche tracks or boulder veneers.

*Wet sites* are those with high or fluctuating water tables and growing season water surpluses. Productive growing sites are generally less frequent and found mainly on elevated mounds. Under the BEC system the soil moisture rating (SMR) for these sites ranges from very moist (6) to wet (7).

*Disturbed roadside areas* are those within the road prism where productive growing sites are less frequent because of broken rock, talus, heavy slash or other unfavorable soil materials caused by road building and harvesting operations.

*Stream Riparian* areas are areas adjacent to a stream within the RMA zone.

RULE NUMBER FOUR - **Leave Trees**

The minimum characteristics of any leave trees that contribute toward the free growing stand must be of good form, health and vigor and otherwise meet the stocking standards for that site. In situations where leave trees will not contribute to the free growing stand the leave trees within the harvest area must have characteristics appropriate to meet forest management objectives developed for the site. The forest management objectives must be supported by a rationale, documented and should be incorporated into the site plan

RULE NUMBER FIVE – **HEAVY ELK Browse Areas**

In heavy Elk Browse areas the intertree spacing is reduced to 1.5 m and MSS is 50% of normal standards. Heavy Elk Browse areas are defined as units where browse or damage is chronic and ongoing. Elk damage will include; a) groups of >4 damaged trees per hectare, averaged across a SU or b) at least once per standard unit where the number of trees damaged is 10 or more.

RULE NUMBER SIX – **Riparian Management and Wildlife Habitat**

The Woodlot Planning and Practices Regulations allow for flexibility within riparian management areas (RMA). Timber production objectives may be secondary to the protection or enhancement of riparian, biodiversity, wildlife and fisheries values. Accordingly, stocking standards may be modified to meet forest management objectives. Changes to the stocking standards may include adjustments to preferred and acceptable species, the acceptance of broadleaf species, and adjustments to target and minimum densities and minimum inter-tree distance. The forest management objectives and the associated changes to the stocking standards must be supported by a documented rational.

## 2.3 Forest Health Factors

Laminated Root Rot - Alternate stocking standards have been listed for sites infected by laminated root rot and armillaria in the CWH dm and CWHxm subzones of the Sunshine Coast Forest District. These standards will be applied to infected sites when an alternate species management strategy is prescribed.

White Pine Blister Rust - Western White Pine (Pw) occurs naturally within the plan area and is susceptible to White Pine Blister Rust. In order for Pw to be an acceptable crop tree at free growing it must be either grown from resistant stock or first-lift pruned, where pruned means that the lowest live branches have been removed to a height of 1.3m when trees are greater than or equal to 2.5m tall. For trees < 2.5m tall, at least 40% of tree height will remain as live crown.

Spruce Weevil (Pissodes strobi) - Risk for Spruce Weevil is high for most of the plan area below 700m in elevation. For this reason, Sitka spruce and spruce hybrids will be limited to minor components (<20%) of planted and regenerated stands. Planted spruce is to be from seed which has been selected for resistance to spruce weevil.

**Red Alder Management Strategy:**
Regeneration with alder will be targeted to not only root rot pockets but Alder Management will also take place on suitable ecological sites. Regeneration with alder is an ecological suitable species under the stocking standards defined for the management for the total area harvested during the term of the WLP. Regeneration with alder, including root rot pockets, will total not more than 8 percent of the total area harvested during the term of the WLP.

Management Objectives
The primary objective is to provide quality saw logs for processing and sale to the furniture market in rotations of 25 to 40 years. The implementation of an alder management strategy will help avoid a supply deficit in the medium-term (25 to 40 years) and promote a supply of saw logs in the long-term through the establishment of alder plantations.

Stand Establishment
The establishment of red alder plantations will be restricted to suitable sites as outlined in the attached alder stocking standards (Dr Standards 1500 and 1100). The primary focus will be on sites under 300 m in elevation which are nutrient-rich and do not suffer from moisture deficits. Preferred sites are rich and moist (05 and 07) sites and richer zonal sites although alder can be established in root rot centers on other suitable sites.

Stand Density Management
To establish a *more valuable* Free Growing stand of red alder, where the number of alder trees per hectare greater than 4m tall exceeds the upper density maximum of 1500 sph at survey time, a spacing treatment *can* be carried out on the area before the late free growing date to reduce the number of alder trees per hectare to within the range of 500-900sph. Spacing, *although not mandatory,* is recommended to ensure that target rotations

and product objectives are *optimized*. *Ideally*, spacing should occur at about 10m in top height and before the live crown has dropped below 40%.
Red Alder Stand Management regimes (i.e. Spacing) currently being administered under the government's Land Based Investment (LBI) account are meeting the investment criteria for spacing of alder plantations after meeting Free to Grow status. It is the intention of the Holder of this WLP as a general rule to contemplate spacing treatments under the LBI stand tending programs rather than a basic re-forestation requirement prior to declaring a Free Growing stand.

## 3.0 UNEVEN-AGED MANAGEMENT

The following standards apply to blocks and/or standards units where uneven-aged management is practiced and are applicable to the following silviculture systems:

- Single Tree Selection;
- Retention (group and/or dispersed), where edge influence is 100%; and
- Group Selection.

The stocking standards table covers site series commonly found within the Sunshine Coast Timber Supply Areas for the following biogeoclimatic (BEC) variants: CWHxm & CWHdm in the Woodlot License Plan.

**Table 2 – Stocking Standards for Multi-storied Stands**

| Target | Layer* | Stocking (well spaced/Ha) | | |
|---|---|---|---|---|
| | | Target p & a | Minimum p & a | Minimum p |
| 900 | 1 | 400 | 200 | 200 |
| | 2 | 500 | 300 | 250 |
| | 3 | 700 | 400 | 300 |
| | 4 | 900 | 500 | 400 |
| | | | | |
| 800 | 1 | 300 | 150 | 150 |
| | 2 | 400 | 200 | 200 |
| | 3 | 600 | 300 | 300 |
| | 4 | 800 | 400 | 400 |
| | | | | |
| 600 | 1 | 300 | 150 | 150 |
| | 2 | 400 | 200 | 200 |
| | 3 | 500 | 300 | 300 |
| | 4 | 600 | 400 | 400 |
| | | | | |
| 400 | 1 | 200 | 100 | 100 |
| | 2 | 300 | 125 | 125 |
| | 3 | 300 | 150 | 150 |
| | 4 | 400 | 200 | 200 |

## 3.1 Applying Uneven-Aged (Multi-layered) Stocking Standards

The multi-storied stocking standards may be applied, where ecologically suitable, to partial harvesting silviculture systems that include single or multiple entry harvesting designated to create multi-storied stands. Multi-storied stands generally have two or more dominant age classes or layers that are created by partial cutting silviculture systems in both even and uneven aged stands. The purpose of these standards is to allow retention trees from different layers to contribute towards the stocking and to avoid additional stocking in the under-story that will never attain acceptable growth and vigor. The "Standards for Retained Trees" section outlines the criteria for trees that count towards stocking.

To apply the multi-layered stocking standards, first select the appropriate site from the biogeoclimatic ecosystem classification (BEC) site series (Table 1) to determine the preferred and acceptable tree species (p & a) and applicable free growing heights. Then select the set of target and minimum stocking densities from the Stocking Standards for Uneven-Aged Stands (Table 2) that correspond to the target density in Table 1. Where standards units (SU) are comprised of more than one site series, the practice will be to manage the stocking standards of the dominant site series provided that the tree species are suitable for all the site series contained in the SU.

Uneven-aged stocking standards may be applied in partial harvesting plans that are designed to meet specific management objectives. Some examples where these standards are appropriate include:

- when operating in visually constrained areas;
- partial harvesting of an area to remove a percentage of the stand volume while meeting non-timber forest management objectives (e.g. recreational trails, riparian buffers (sensitive streams), retention patches, buffering of wildlife habitats, etc.);
- wildlife enhancement areas where the removal of some stand volume is appropriate;
- partial cutting in stands with a naturally occurring multi-storied stand structure; and
- feathering of cut-block edges to meet wind-throw or riparian management objectives.

Openings created using partial cutting silviculture systems will generally not exceed one hectare and generally involve discussion with the local *Ministry of Forests and Range* staff prior to implementation. The establishment and growth of the regeneration layer occurs under the influence of existing leave trees of one or more additional age classes.

***Stand Layer Definition**

Layer 1 Mature trees ≥ 12.5 cm dbh
Layer 2 Pole trees 7.5 cm to 12.4 cm dbh
Layer 3 Sapling trees >= 1.3 height to 7.4 cm dbh
Layer 4 Regeneration trees < 1.3 m height

### 3.2 Regeneration Date / Free Growing Height

Maximum regeneration delay is seven years. The free growing heights where applicable are as listed in the even-aged stocking standards. Regeneration delay can be met immediately following harvest if the residual stand has no significant damage or pest problems and meets the minimum stocking standards. If regeneration is achieved immediately following harvest, earliest free growing date is five years post harvest and late free growing assessment is at 15 years.

### 3.4 Standards for Retained Trees:

Leave trees retained through various silviculture systems may contribute to the stocking of the future stand and/or provide biodiversity value.

For mature (layer 1), pole size (layer 2), sapling (layer 3), and regeneration (layer 4) trees to contribute to stocking in the future stand and be considered free growing they must have the following minimum characteristics:

- Minimum inter-tree distance (layers 2,3,4): 2.0m
- Have good form, health, and vigor and otherwise meet the stocking requirements for the site.
- Scars and damage should be minimal and there should be no stem infection caused by dwarf mistletoe; no other externally visible pathological indicators should be present including broken tops, frost cracks, conk, extreme basal sweep, or unacceptable forks and crooks.
- Continuous live crown must be greater than 20% for layers 1 and 2 and 30% for layer 3 trees.
- Layer 3 trees will be free of significant disease or insect damage, have potential for post harvest release, and no open injuries (scars) with a horizontal width greater than 25% of the circumference of the tree at that point.
- A higher percentage of stem defect, scars, and rot are acceptable for layer 1 and layer 2 western red cedar and yellow cedar leave trees. The forest products derived from Cw and Yc are unique and these trees will likely provide economic value to the next stand entry.

### 3.5 Trees Retained for Biodiversity

Trees left for biodiversity, that will not contribute to the free growing stand, may include very old dominant trees (veteran trees), trees with broken tops, candelabras, heart rot, as well as under-story trees and advanced regeneration if deemed safe to do so. These trees will add structural value, potential wildlife habitats, and coarse woody debris inputs to the next stand. Leave trees infected with dwarf mistletoe or root rot should not be retained for biodiversity.

When significant levels of western hemlock are expected to contribute to the future crop, a sanitation treatment at the time of harvest in multi-storied stands or in leave areas within a block may be considered in stands with moderate or high incidence of hemlock dwarf mistletoe. Alternately, non-host species (Fd, Cw, Yc) or less susceptible species (Hm, Ba, Ss) will be planted and/or targeted to mitigate the effects of DMH on the regenerating stand.

## 4.0 STOCKING STANDARDS FOR HIGH RETENTION HARVESTING (DISPERSED RETENTION / SMALL OPENINGS)

### 4.1 Dispersed Retention

The minimum acceptable stocking level of layer 1 and layer 2 for dispersed retention when a stocking standard for established regeneration is not required is;

- Second Growth Stands: Trees are well distributed (with no gaps exceeding twice the normal spacing for a given density), healthy and be >150-200 stems /ha; or

- Old growth Stands: Trees are well distributed (with no gaps exceeding twice the normal spacing for a given density), healthy and be >200 stems /ha.

Species composition of the retained trees in layers 1 and 2 are similar as or comprised of, or will promote, a greater proportion of species more ecologically suitable to the *standards unit* than, the species composition on the *standards unit* immediately prior to the harvesting.

### 4.2 Small Openings

The following minimum opening size or situation applies to small openings;

- When opening size or gap size is > 0.1 ha. then even age stocking standards apply.

- Small openings or gaps ≤ 0.1 ha do not require stocking standards.

## 5.0 Intermediate Cutting - Single Stem Harvesting

Single Stem Harvest is the removal of individual stems or small groups of trees using either "standing stem" harvest by helicopter, or conventional falling and yarding by helicopter or other equipment. The residual stand that remains following an intermediate cut (even-aged management) does not have a free growing requirement. There are no reforestation requirements for intermediate cutting.

This type of silviculture system may be used in constrained areas to address cut-block adjacency, terrain stability, wildlife, riparian and visual management issues.

## 5.1 Stocking Standards for Intermediate Cutting

The regular WLP stocking standards do not apply to Intermediate Cutting.
Stocking standards for the retained trees in an intermediate cut stand are as follows:

For intermediate cuts, the following criteria for application and stocking standards will be met:

1. This type of harvesting will be limited to ≤ 10% of the total timber volume harvested under this WLP over a 5 year period.
2. There will be a maximum ≤50% reduction in preharvest stand basal area (m2/ha), and/or a maximum 50% reduction in pre-harvest merchantable stand volume (m3/ha). Residual stand composition will be listed in the Site Plan for each Standards Unit.
3. Preferred and acceptable species will be consistent with the corresponding site classification listed in Table 1 and be based on the species composition substantially the same as or comprised of, or will promote, a greater proportion of species more ecologically suitable to the *standards unit* than, the species composition on the *standards unit* immediately prior to the harvesting.
4. Leave tree form, health, and vigor will be representative of the original stand condition.
5. Openings <= 0.25 ha will not require a stocking standard.
6. To meet the requirement for Wildlife Trees, a component of stand structures suitable for wildlife habitat (snags, broke tops, LOD, veteran trees,) will be left in the stand. Only those snags and danger trees determined to be hazardous to crews will be felled.
7. Justification for intermediate cuts will be based on site limitations (visual, terrain, operability, plantability, Salvage rules etc…) and specific management objectives (high value timber, maintenance of wildlife habitat, etc…) will be listed in the Site Plans.

The quantity and distribution of trees retained must be to a level that will ensure the area will remain adequately stocked for a period of 12 months after completion of harvest (FPPR s.44(4)) such that a stand has future growth potential considering the objectives for the site and the health and vigor of the existing stand.

## 5.2 Standards for Retained Trees:

The preferred and acceptable species listed in the even-aged stocking standards by biogeoclimatic zone, variant and site series are to be considered "preferred" and be based on the pre-harvest stand composition.

Leave tree form, health and vigor will be representative of the original stand condition.

Excessively scared and/or damaged trees caused by harvesting should also be removed.

## 6.0 Free Growing Stand Exemption under s. 78 WLPPR from FPPA s. 29

WLPPR s. 34(1) applies in all situations or circumstances under the WLP where a free growing stand is required to be established under FRPA s. 29. *Except where as follows:*

*In addition to the circumstances established under* WLPPR s. 34(1)*: within areas that will be considered for salvage removal of special forest products (products as described in the Coastal Appraisal Manual) or the removal of endemic wind thrown trees; stocking standards will not be applicable in harvesting areas where trees are completely removed in a contiguous unit of less than 1 ha. Or; where the contiguous area is not applicable (i.e. single tree removal) and the volume in the general area (logical unit) is* $\leq$*500m3, no stocking standards will be applicable.*

## Appendix II: The Woodlot Licence Plan Map

# WLP MAP

# GAMBIER FOREST RESOURCES LTD.
# W0039 - WOODLOT LICENCE PLAN

1:5,000

THORNBOROUGH CHANNEL

Andys Bay

MANSON Creek

Whispering Creek

W0039 A
SCHEDULE_B

WTRA 7.57 ha.

WTRA 2.53 ha.

WTRA 3.1 ha.

1297 PR M - - - 3

1354 PR H - - - 3

1357 R L - - - 2

1296 R L - - - 2

CWHxm1

CWHdm

LOG DUMP

**Managed Licence**
- Managed Licence

**Cutting Permits - Active**
- Cutting Permits - Active

**District Lot Bdy c/w label**
- District Lot Bdy c/w label

**Lakes**
- other sources
- Lake - Definite
- Lake - Indefinite
- Lake - Intermittent
- Reservoir - Definite
- Reservoir - Indefinite

**Rivers**
- other sources
- River - Definite
- River - Indefinite
- River - Left Bank
- River - Right Bank

**Hydrography - non-TRIM**
- Hydrography - non-TRIM

**Road - Status**
**tenure holder**
- Forest Service Road
- Road Permit

**Roads (GPS 2011)**
- Roads (GPS 2011)

**Ground Water Wells**
- Ground Water Wells

**Points of Diversion**
**STATUS**
- Active Application
- Inactive
- Licensed

**Symbol description**
- Arrowhead
- Cut Block Regenerating Symbol
- Cut Block Symbol
- Log Landing Symbol
- Marsh Symbol
- No Join Symbol
- Sand or Gravel Bar Symbol
- Swamp Symbol

**Spot_Hgts**
- Spot_Hgts

**Contours - TRIM, 20m**
**type**
- Area of Exclusion
- Contour Index Def.
- Contour Index Def. Depre
- Contour Interm. Def.
- Contour Interm. Def. Dep

**Visual Landscape Inventory**
**VQO Code**
- Partial Retention
- Retention

**VRI Layer 1**
- VRI Layer 1

**BEC Zone**
**Label**
- CWH dm

**Permit, Special Use**
**Description**
- Gravel Pit, Rock Quarry
- Millsite

**RESULTS Opening**
- Other
- Approved
- Free to Grow

**Standard Units**
**LABEL**
- WTRA

**OGMA (non-legal)**
- OGMA (non-legal)

**Recreation Site**
- Recreation Site


Gambier Forest Resources Ltd
833 Andy's Bay Rd
Gibsons, BC V0N 1V0, Canada

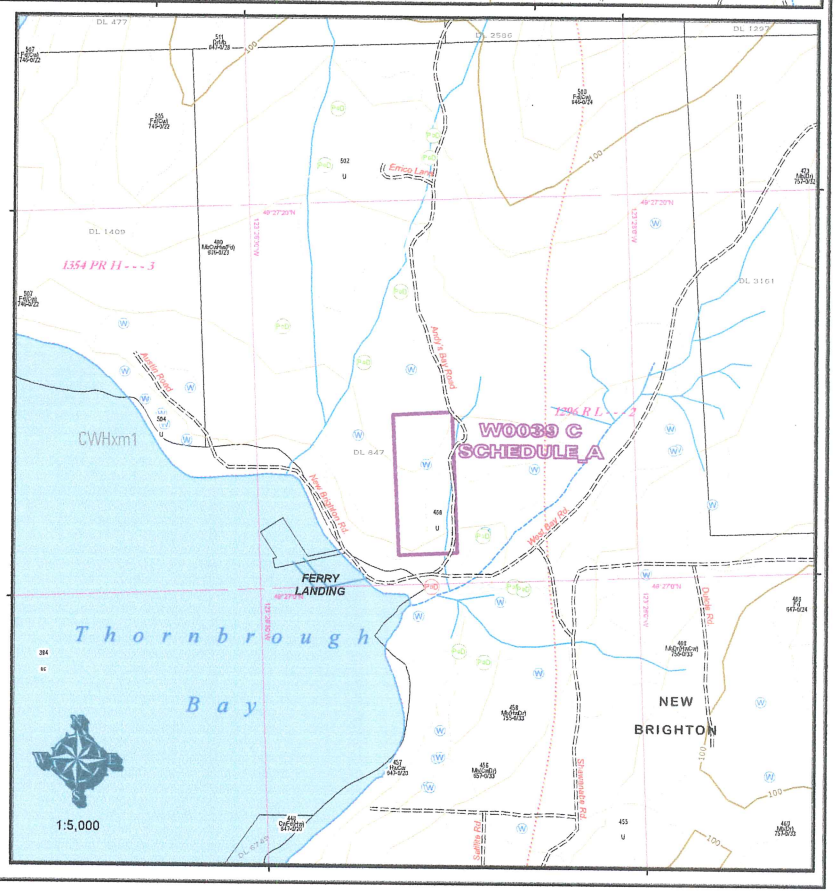
Phone: (604) 886-2871


This woodlot license plan for WL0039 was prepared using the latest data available from the LRD Warehouse as of May 2011.

Compiled for OVERLANDER RESOURCES Ltd.
on behalf of GAMBIER FOREST RESOURCES Ltd.
by SUNSHINE COAST MAPPING & GIS Services

| | |
|---|---|
| Projection: | BC ALBERS |
| Datum: | NAD 83 |
| Scale: | AS SHOWN |
| Date: | MAY 2011 |

OVERLANDER RESOURCES LTD



# GAMBIER FOREST RESOURCES LTD.
# W0039 - WOODLOT LICENCE PLAN

1:5,000

**Managed Licence**
- Managed Licence

**Cutting Permits - Active**
- Cutting Permits - Active

**District Lot Bdy c/w label**
- District Lot Bdy c/w label

**Lakes**
- other sources
- Lake - Definite
- Lake - Indefinite
- Lake - Intermittent
- Reservoir - Definite
- Reservoir - Indefinite

**Rivers**
- other sources
- River - Definite
- River - Indefinite
- River - Left Bank
- River - Right Bank

**Hydrography - non-TRIM**
- Hydrography - non-TRIM

**Road - Status tenure holder**
- Forest Service Road
- Road Permit

**Roads (GPS 2011)**
- Roads (GPS 2011)

**Ground Water Wells**
- Ground Water Wells

**Points of Diversion STATUS**
- Active Application
- Inactive
- Licensed

**Symbol description**
- Arrowhead
- Cut Block Regenerating Symbol
- Cut Block Symbol
- Log Landing Symbol
- Marsh Symbol
- No Join Symbol
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- Swamp Symbol

**Spot_Hgts**
- Spot_Hgts

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- Area of Exclusion
- Contour Index Def.
- Contour Index Def. Depre
- Contour Interm. Def.
- Contour Interm. Def. Dep

**Visual Landscape Inventory VQO Code**
- Partial Retention
- Retention

**VRI Layer 1**
- VRI Layer 1

**BEC Zone Label**
- CWH dm

**Permit, Special Use Description**
- Gravel Pit, Rock Quarry
- Millsite

**RESULTS Opening**
- Other
- Approved
- Free to Grow

**Standard Units LABEL**
- WTRA

**OGMA (non-legal)**
- OGMA (non-legal)

**Recreation Site**
- Recreation Site


Gambier Forest Resources Ltd
833 Andy's Bay Rd
Gibsons, BC V0N 1V0, Canada

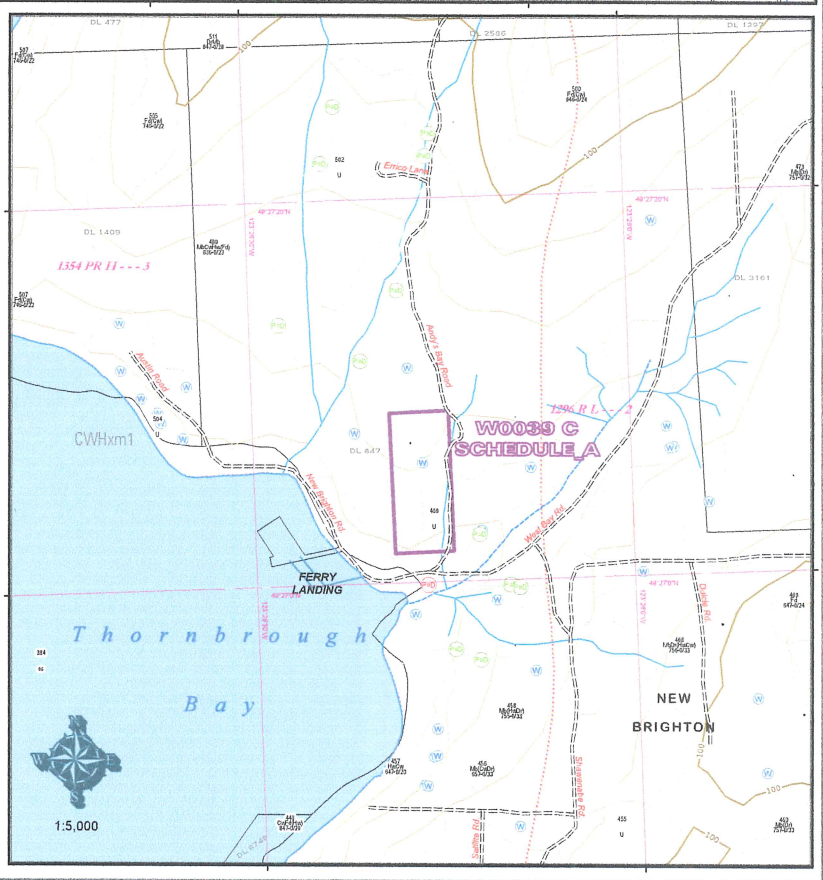
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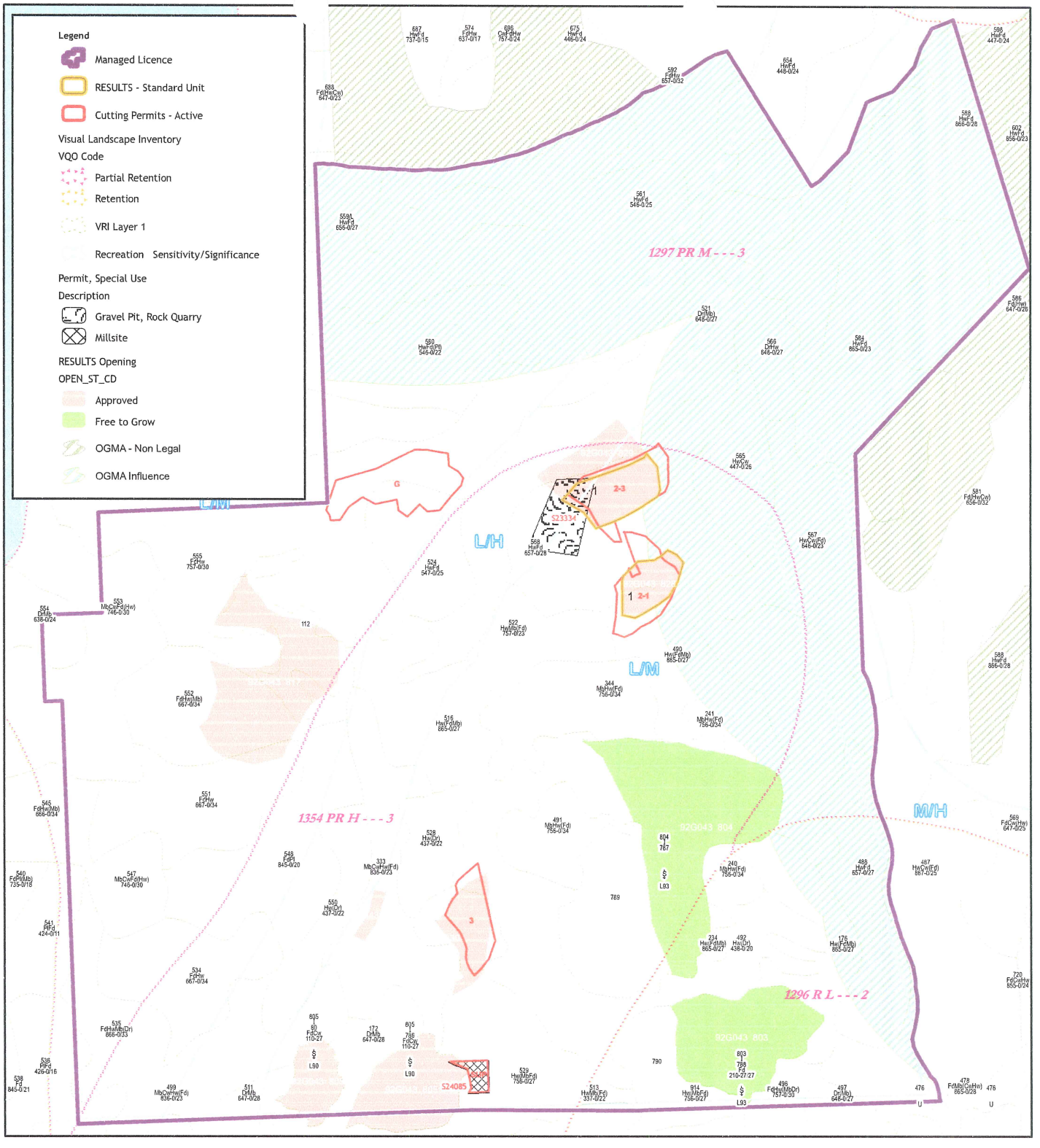

This woodlot license plan for WL0039 was prepared using the latest data available from the LRD Warehouse as of May 2011.

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| Projection: | BC ALBERS |
| Datum: | NAD 83 |
| Scale: | AS SHOWN |
| Date: | May 2011 |

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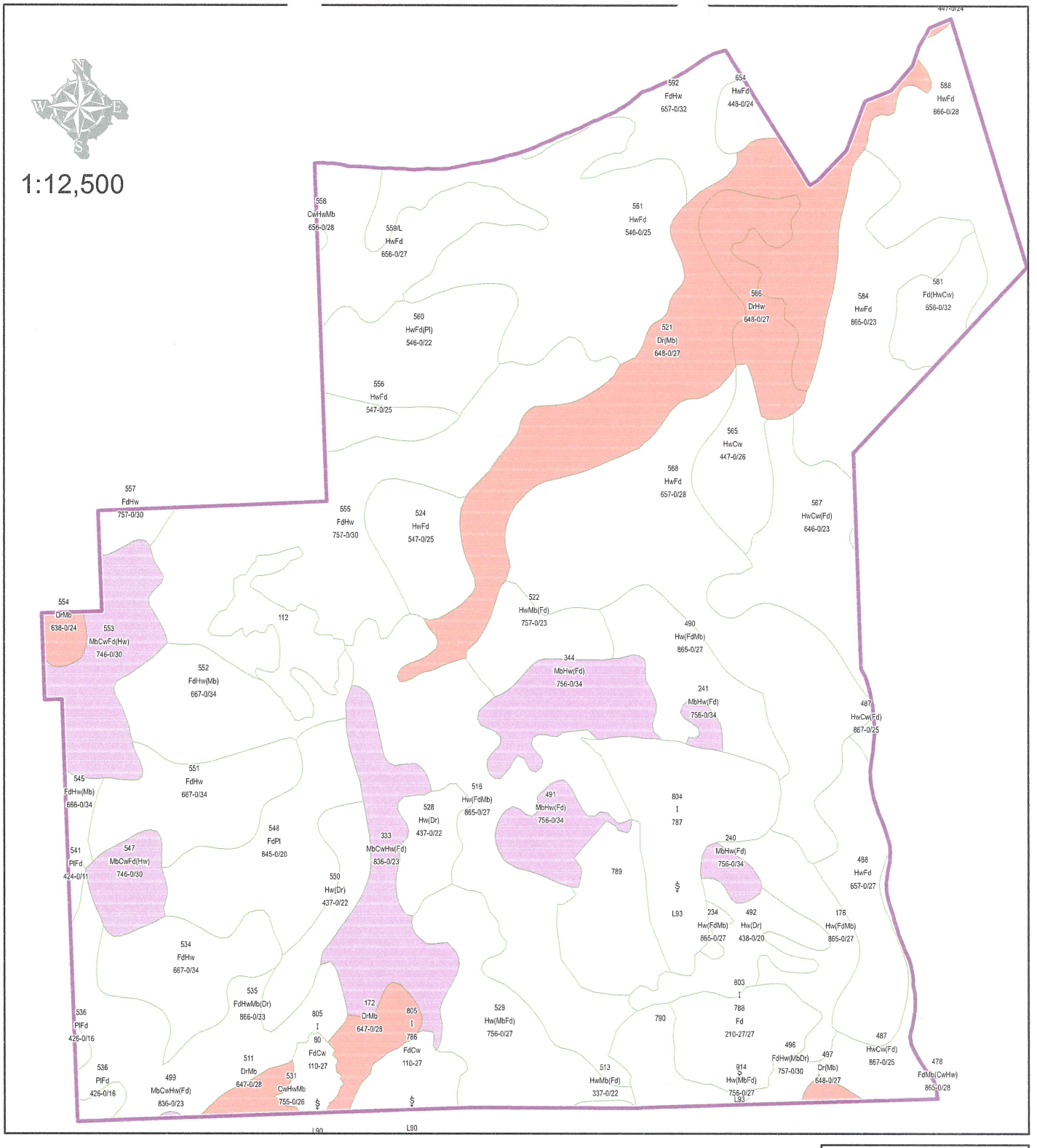



# GAMBIER FOREST RESOURCES LTD.
# W0039 - WOODLOT LICENCE PLAN

1:12,500

## *Identify all area within W0039 lying within 500m of NON LEGAL OGMA*

Total Productive Area W0039 = 397.7 ha
Area of OGMA influence 147.6 ha




# GAMBIER FOREST RESOURCES LTD.
# W0039 - WOODLOT LICENCE PLAN

## HIGHLIGHT STANDS with LEADING SPECIES HARDWOOD

Please refer to companion Excel Spread sheet Forest_Cover_Leading_Hardwood.xls

**Legend**

Managed Licence

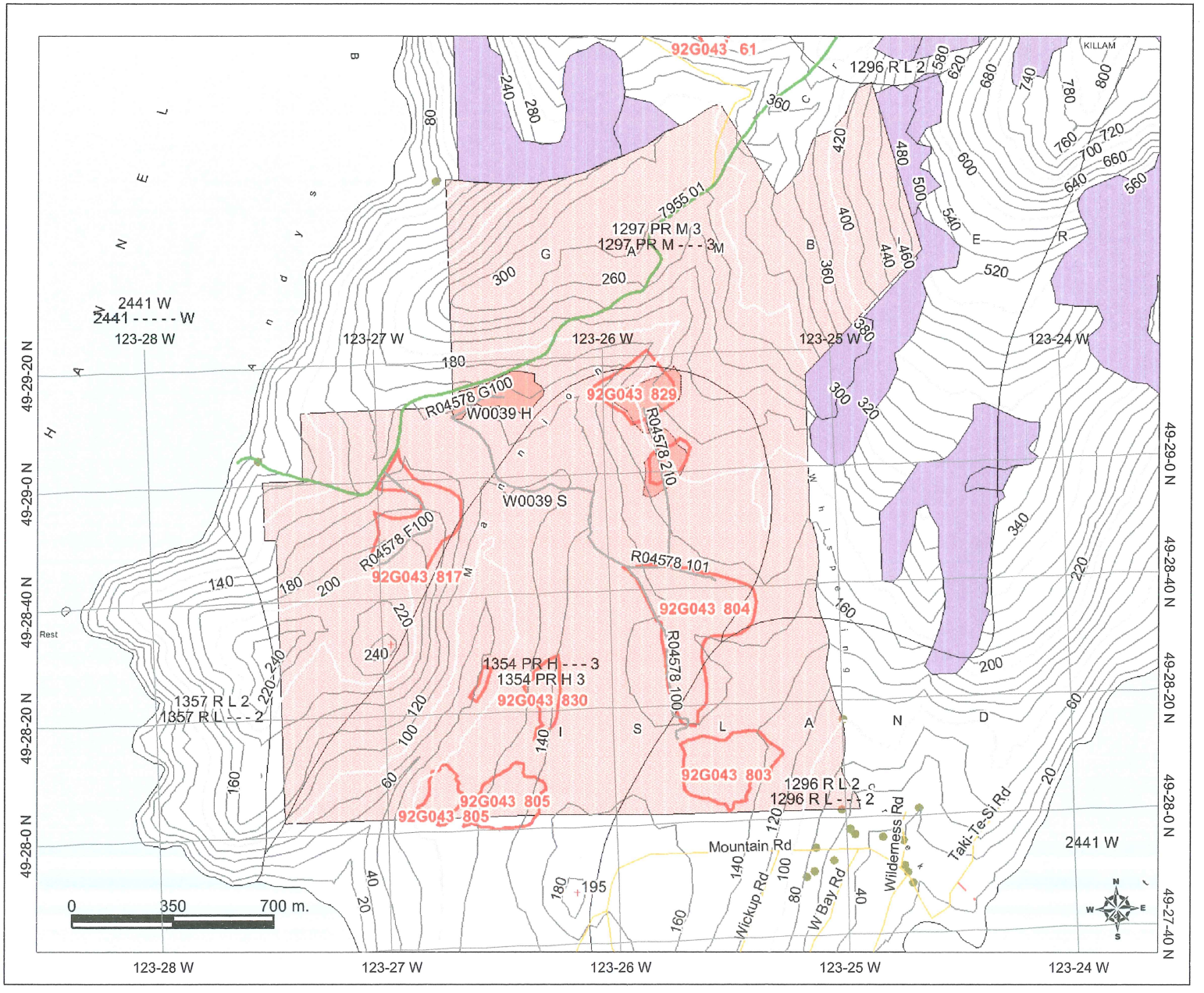
**W0039_forestcover**

<all other values>

**SPECIES/AGE**

- DR, 101
- DR, 103
- MB, 123
- MB, 151

# Gambier WLP




## Legend

- Major Cities
- Transportation - Airfield (EBM)
  - Air Facility
  - Airport
  - Airstrip
  - Abandoned Airfield
  - Helipad
- Transportation - Points (TRIM)
  - Helipad
- Recreation Sites
- Recreation Trails
- Pending Tenure Roads
- Active Tenure Roads
  - Forest Service Road
  - Road Permit
  - SUP Road
- Retired Tenure Roads
- VLI - Established Visual Quality Objectives Label
- Rec VIMS Visual Landscape Inventory
- Viewpoint Directions
  - Large Landscape Arrow
  - Small Landscape Arrow
- Viewpoints
  - Major
  - Minor

Scale: 1: 20,000


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CAUTION: Maps obtained using this site are not designed to assist in navigation. These maps may be generalized and may not reflect current conditions. Uncharted hazards may exist. DO NOT USE THESE MAPS FOR NAVIGATIONAL PURPOSES.


Datum/Projection: NAD83, Albers Equal Area Conic
Created using Mapview 6.0.0 on: 25/04/11

Key Map of British Columbia



REVIEW

&

COMMENT

**Gambier Island Woodlot**
**Woodlot License Plan (WLP)**
**For Woodlot W0039**

The holder of Woodlot Licence W0039 is notifying the public that there will be an opportunity to review and provide comments on the above noted Draft Woodlot License Plan (WLP). The proposed WLP covers the following geographic area: **SW Gambier Island near Mannion Bay**.

The draft WLP outlines the licensee's strategies for managing and protecting Forest Values including soils, timber, fish, wildlife, biodiversity, water, resource features, visual quality, and cultural heritage resources. The WLP when approved will form the basis for future development of roads and cut-blocks on Woodlot W0039.

The WLP may be changed as a result of written comments received during the public review and comment period running from May 27 to June 27, 2011.

The proposed WLP will be available for review at the following locations and on the following dates. To ensure a representative from the Licensee is available to discuss the WLP, any interested parties should phone in advance to arrange an appointment (contact information provided below).

| | | |
|---|---|---|
| Gibson's Public Library<br>Gibson's, B.C. | May 27 – June 27, 2011 | During library operating hours<br>(Copy of plan available to view) |
| Gambier Forest Resources Office<br>c/o Bill Errico<br>Andy's Bay Road<br>Gambier Island, B.C.<br>E-mail: gamfor@uniserve.com or Phone: 604-886-2871 | May 27 – June 27, 2011 | Monday to Friday 8:30 am to 4:30 pm |

If any interested parties are unable to review the proposed plan during these times, arrangements can be made to view the plan at a time convenient to both. Alternatively, a plan can be emailed if requested for review purposes.

Written comments must be received no later than June 27, 2011.
Please send to the attention of:

Gambier Forest Resources Inc.
Attention: Bill Errico
RR#3
Gibsons, BC
V0N 1V0

# Woodlot License Plan
# Public Comment & Review
# Licence W0039- Gambier Island

| Name | Phone | Address | COMMENTS |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |

## Blair Wriglesworth

**From:** Blair Wriglesworth [overlanres@shaw.ca]
**Sent:** June 2, 2011 3:27 PM
**To:** 'chuck.Anderson@gov.bc.ca'
**Subject:** Gambier Island Woodlot W0039

Hello Chuck,

On behalf of Gambier Forest Resources, I would like to submit a Woodlot Licence Plan (WLP) for you viewing. I have attached a cover letter in the package of documents above. This is Woodlot Licence Plan #1 for Woodlot W0039.
We are currently undergoing a 30 day comment and review period from May 27th to June 27th as advertised in the Coast Reporter Newspaper for the public. I will contact you shortly to ensure you received Woodlot Licence Plan #1 and update you on First Nations consultation and Islands Trust consultation.

I also went down to Gambier Island last weekend and dropped a copy of the plan at the Gibsons Public Library before meeting Bill at the Woodlot. I provided a copy of the plan to Bill for his consultation efforts on Gambier Island and he posted a public notice at the Gambier hall for more exposure to the plan.

Talk to you soon.

Regards,

Blair Wriglesworth, RPF
Forest Consultant
Overlander Resources Ltd.
Email: overlanres@shaw.ca
Ph: 604-485-4014

# CLASSIFIEDS 604-885-4811 WWW.COASTREPORTER.NET

## 5520 Legal/Public Notices

## Gambier Island Woodlot

### Woodlot Licence Plan (WLP) ~ For Woodlot W0039

The holder of Woodlot Licence W0039 is notifying the public that there will be an opportunity to review and provide comments on the above noted Draft Woodlot Licence Plan (WLP). The proposed WLP covers the following geographic area: SW Gambier Island near Mannion Bay.

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|---|---|
| **Gibsons Public Library, Gibsons, BC** *(Copy of plan available to view)* | May 27 - June 27, 2011 During library operating hours |
| **Gambier Forest Resources Office** c/o Bill Errico, Andy's Bay Road Gambier Island, B.C. | May 27 – June 27, 2011 Monday to Friday 8:30 am to 4:30 pm |

E-mail: gamfor@uniserve.com or Phone: 604-886-2871

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*Written comments must be received no later than June 27, 2011.*

**Please send to the attention of:**

**Gambier Forest Resources Inc.**
**Attention: Bill Errico, RR#3, Gibsons, BC V0N 1V0**

## SUNSHINE COAST REGIONAL DISTRICT

### REQUEST FOR PROPOSAL

### GRAPHIC DESIGNER

**For the Project Titled:**

### ONLINE RECREATION PROGRAM GUIDE ~ No. 11 160

The Sunshine Coast Regional District is seeking a graphic designer to prepare a web-enabled, full-colour navigational PDF recreation program guide. The scope of work is presented in the document listed below.

Proposals will be received by Thursday, June 16, 2011, up to 3:00 p.m. local time, at the main offices of the Regional District, 1975 Field Road, Sechelt, BC V0N 3A1.

Request for Proposal No: 11 160 documents can be obtained from the Sunshine Coast Regional District website www.scrd.ca, its regional office or on BC Bid at www.bcbid.gov.bc.ca .

**Sunshine Coast Regional District**
**Robert McKee, Purchasing Officer**
**1975 Field Road, Sechelt, BC V0N 3A1**
**Email: Robert.McKee@scrd.ca • Phone: 604-885-6824**

## 6025 For Sale By Owner

Sell your house and pay yourself the commission. We help you keep your money.

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Sell Your House. Pay Yourself. PropertyGuys.com

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Salvation Army Food Bank 604-886-3665
Sechelt Food Bank 604-885-5881, ext. #240

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14' x 66' ~ 2 bdrm
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Choose Joe Walker
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Re/Max Oceanview Realty

## 6070 Real Estate Wanted

WANTED TO PURCHASE house with waterview in Gibsons, Sechelt, Davis Bay. Ali 1-604-833-2103.

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Quiet • Clean Secure
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## 6515 Commercial

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**2 OFFICE** rooms for rent in Gibsons. Private entrance and use of reception. Avail. July 1. 604-886-7255 Eves.

## 6515 Commercial

**AVAILABLE IMMEDIATELY,** commercial spaces for rent, one area or both. For more details, view at 5604 Wharf Rd., Sechelt (above South Coast Ford). Call Brad for more info 604-885-3281.

**GIBSONS LANDING RETAIL/COMMERCIAL GREAT OPPORTUNITY 2200 sq.ft. on Marine Dr., Prime location,flexible terms. Available now. Call Patricia Hetherington at Prudential Sussex Real Estate 604-886-2277.**

**GIBSONS WORKSHOP:** 1500 sq.ft., light industrial zoning permits: workshop/warehouse, wholesale/retail, live/work. 12' ceiling, 3 phase power. Peter 604-886-8615.

**SECHELT: AVAILABLE** immediately, commercial / office / retail space, 1,000 sq. ft. and 800 sq. ft. (could be combined). Ground Floor, good parking, near Cap. University. Excellent rates. 604-885-0184.

## 6515 Commercial

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**Commercial Space**
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$13 / sq. ft.
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*Two bays, reception, fenced compound.*
Call for details.
RE/MAX Oceanview Realty
**Gord Clayton**
604-740-6302

# ADOPT-A-PET



SPCA 604-740-0301 www.spca.bc.ca/sunshinecoast • Happy Cat Haven 604-886-2407

**SPCA • 604-740-0301**



Teeka is very affectionate and loves to cuddle, but is also happy lounging in the sun watching the birds or keeping herself entertained with her toy mouse. Playful, spunky, social and chatty, Teeka tells us she's ready to find her forever home!

Sponsored by
CASTLE ROCK KENNELS Boarding & Grooming
Roberts Creek 604-885-9840

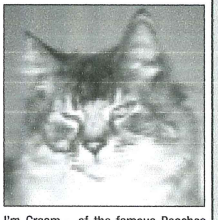
**SPCA • 604-740-0301**



Peaches excels in clicker training, is very attentive and learns quickly. She is also always ready to head out for long walks, play fetch or just chill out on her bed with a kong. If you're looking for an active lifetime companion, come and meet this striking puppy!

Sponsored by
CUSTOM CROWN & MOULDINGS
604-885-3582

**HAPPY CAT • 604-886-2407**



I'm Cream – of the famous Peaches and Cream duo. We live in the Haven's kitchen (as close to the food as possible) and I particularly like to hang out on Violet's desk. She's become quite adept at working around, over and under me – she doesn't have any choice! We have foster parents who help with our care for $10 a month. Please consider becoming one of these good people!

Sponsored by
Sechelt Animal Hospital
604-885-2309

## THE PET COLUMN

### BASIC CAT TRAINING - PART TWO

Reprimands simply do not work when training your cat. If you catch kitty in the act, he will only misbehave when you are not around. If you punish the cat later, he will not associate the reprimand with the crime. In either case, the misbehaviour continues. Some cats misbehave just to get attention and the attention is enough of a reward to cause kitty to continue his ways. So what to do?

If you want to prevent problems from occurring, or reform kitty of his bad habits, the answers are the same. Here's a three point training plan:

First: Stop all reprimands and punishment, no matter what your cat is doing.

Second: Set kitty up to succeed in performing those behaviours you want her to learn so she can be rewarded.

Third: Set up kitty's environment so that those behaviours you don't want him to learn are not rewarding.

***— Submitted by All for Pets, Sechelt***

**HAPPY CAT • 604-886-2407**

**Happy Cat Haven**

### GUARD CAT

If you want a guard cat, come for Figaro. He's a very big, chunky, long-haired black and won't allow any other animals on your property! Young, tough and neutered, of course. Still waiting patiently for adoption is Carmena, who's very good with dogs. She a pretty tabby with white.

***760 School Road • Gibsons Open 1-4, Fri, Sat & Sun • 604-886-2407 •***

**All for Pets**

**Healthier Pets Through Better Nutrition**

*Distributor of low waste, wild bird seed.*

**Visit: www.allforpets.ca to see our monthly specials.**

*ANIMAL TRIVIA: The oldest cat lived in Austin, Texas. He died at the age of 34.*

**5641 Cowrie St • 604-885-8843**

## 5050 Legal Services

**DIAL-A**-Law offers general information on a variety of topics on law in BC. 604-687-4680 (Lower Mainland) or 1-800-565-5297 (outside LM); www.dialalaw.org (audio available). Lawyer referral service matches people with legal concerns to a lawyer in their area. Participating lawyers offer a 30 minute consultation for $25 plus tax. Regular fees follow once both parties agree to proceed with services. 1-604-687-3221 (Lower Mainland) or 1-800-663-1919 (outside LM).


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Contact Shelley or Nora

604-885-4811

classified@coastreporter.net

Coast Reporter


## 5520 Legal/Public Notices

**NOTICE TO CREDITORS AND OTHERS**

**NOTICE** is hereby given that creditors and others having claims against the Estate of **EVELYN MARIE ROBERTS,** deceased, who died on the 12th day of March, 2011, are hereby required to send them to the undersigned Executor at P.O. Box 392, Madeira Park, BC, V0N 2H0 before the 8th day of July, 2011, after which date the Executor will distribute the said Estate among the parties entitled thereto, having regard to the claims of which she has notice.

Tracy Dawn Parker,
Executor
P.O. Box 392
Madeira Park, BC V0N 2HO
604-740-2757


FAX your classified ad 604-885-4818

Coast Reporter


## 5520 Legal/Public Notices

## SUNSHINE COAST REGIONAL DISTRICT

### REQUEST FOR PROPOSAL

### GRAPHIC DESIGNER

**For the Project Titled:**

### ONLINE RECREATION PROGRAM GUIDE ~ No. 11 160

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Request for Proposal No: 11 160 documents can be obtained from the Sunshine Coast Regional District website www.scrd.ca, its regional office or on BC Bid at www.bcbid.gov.bc.ca .

**Sunshine Coast Regional District**
**Robert McKee, Purchasing Officer**
**1975 Field Road, Sechelt, BC V0N 3A1**
**Email: Robert.McKee@scrd.ca • Phone: 604-885-6824**

## 5520 Legal/Public Notices

District of Sechelt

### REQUESTING PROPOSALS

### Provision of Municipal Fleet Maintenance Services

For a three (3) year term, commencing August 1, 2011. Complete information packages are available at 5797 Cowrie Street, 2nd Floor, Sechelt, BC, and at the District of Sechelt website: www.sechelt.ca.

Proposals, sealed in an opaque envelope, clearly marked with the proponent's name and project name will be received by Mr. Phil Strain, Public Works Superintendent, P. O. Box 129, 5797 Cowrie Street, 2nd Floor, Sechelt, BC V0N 3A0 and will be accepted until 2pm (local time) June 17, 2011.

Questions regarding specifications can be directed to Emanuel Machado, Manager of Sustainability and Special Projects, at 604-740-8476 or emachado@sechelt.ca.

Proposals will be evaluated on the basis of quality of the proposal, price and other factors, as determined by the District of Sechelt. No contractual obligations will arise between the District of Sechelt and any proponent until and unless the District of Sechelt and a proponent enter into a formal, written contract respecting this project. The District reserves the right to accept or reject any or all proposals and will not be responsible for any costs incurred by the proponents in preparing a response.

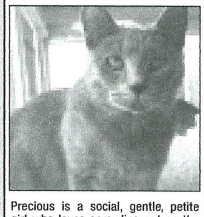
**Phone 604-885-1986 • Fax 604-885-7591**
**Email info@sechelt.ca**

# ADOPT-A-PET

SPCA 604-740-0301 www.spca.bc.ca/sunshinecoast • Happy Cat Haven 604-886-2407

BE KIND TO THE EARTH
DO YOUR PART...✓ REDUCE ✓ REUSE ✓ RECYCLE

**SPCA • 604-740-0301**



Precious is a social, gentle, petite girl who loves sprawling out on the floor for belly rubs. With her sleek grey coat and exotic face, she's hard to miss! Laid back, curious and playful, Precious is looking for a quiet, affectionate home.

Sponsored by

STEPHANSON BULK FUELS
604-885-9621

**SPCA • 604-740-0301**

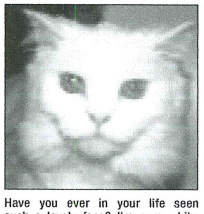


A social boy, Jack is looking for an active home where he can be part of the action! Great with cats, other dogs, livestock and different people, Jack should fit into almost any home. If you're looking for a hiking and cuddles buddy, come meet Jack!

Sponsored by

CASTLE ROCK KENNELS
Boarding & Grooming
Roberts Creek 604-885-9840

**HAPPY CAT • 604-886-2407**



Have you ever in your life seen such a lovely face? I'm pure white, green-eyed and long-coated – a very glamorous combination indeed. Please come visit me – you'll be enthralled! And maybe you'll appreciate the wonderful work the Haven does in saving our lives!)

Sponsored by

Coast Reporter
604-885-4811

## THE PET COLUMN

### BASIC CAT TRAINING - PART ONE

Before training our cats to do something or to stop doing something, we need to look at how cats learn. They don't understand English. They learn by experience. If the experience is good, they will try to repeat it. If the experience is unpleasant, they will try to avoid it in the future. They enjoy raking the furniture with their claws, so they continue to do it. But it's quite a shock when they stick their nose in a candle flame, so they won't do that again.

The key to training is to make sure that whatever you want your cat to do is exceedingly rewarding and pleasurable. Whatever you don't want your cat to indulge in must never be rewarding or fun, in fact, it must be unpleasant.

Sometimes we unintentionally reward our cats for obnoxious behavior. A common complaint is that the cat pounces on the owner at five in the morning, meowing up a storm and generally being a pest. What do the owners do? They get up and feed the cat, play with him or let him outside. Kitty has learned that his behavior gets him exactly what he wants. Many owners become frustrated because they can't catch the cat in the act of the crime, so instead they show the cat the evidence (usually a wet spot on the carpet or pieces of shredded drapery) and discipline the cat at that time. A common training (mal)practice is grabbing the cat, pointing out the wet spot, then dragging him to the litter box and forcing him to dig in the litter. What a cat is learning is that being reached for by the owner is a bad experience and that the litter box is a torture chamber. It is usually difficult if not impossible to catch the cat in the act because most cats have already learned that being caught is bad news.

***— Submitted by All for Pets, Sechelt***

**HAPPY CAT • 604-886-2407**

**Happy Cat Haven**

### YARD SALES

**Every Saturday**
**10 am to 2 pm**
*weather permitting*

**Self-Storage Unit**
**Hwy. 101, Gibsons**

*New stuff comes in regularly so be sure not to miss it!*

PS: The Haven's cats would love it if you would donate your recyclable cans and bottles to us. Call us and we'll pick up! **604-886-7590**


*All for Pets*

**Healthier Pets Through Better Nutrition**

*Distributor of low waste, wild bird seed.*

**Visit: www.allforpets.ca to see our monthly specials.**

*ANIMAL TRIVIA: The world's oldest recorded horse was Old Billy, who was foaled in1760 and died in 1822 at the age of 62.*

**5641 Cowrie St • 604-885-8843**


## Gambier Island Woodlot

### Woodlot Licence Plan (WLP) ~ For Woodlot W0039

The holder of Woodlot Licence W0039 is notifying the public that there will be an opportunity to review and provide comments on the above noted Draft Woodlot Licence Plan (WLP). The proposed WLP covers the following geographic area: SW Gambier Island near Mannion Bay.

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| | |
|---|---|
| **Gibsons Public Library, Gibsons, BC** *(Copy of plan available to view)* | May 27 - June 27, 2011 During library operating hours |
| **Gambier Forest Resources Office** c/o Bill Errico, Andy's Bay Road Gambier Island, B.C. E-mail: gamfor@uniserve.com or Phone: 604-886-2871 | May 27 – June 27, 2011 Monday to Friday 8:30 am to 4:30 pm |

If any interested parties are unable to review the proposed plan during these times, arrangements can be made to view the plan at a time convenient to both. Alternatively, a plan can be emailed if requested for review purposes.

*Written comments must be received no later than June 27, 2011.*

**Please send to the attention of:**
**Gambier Forest Resources Inc.**
**Attention: Bill Errico, RR#3, Gibsons, BC V0N 1V0**

**NOTICE TO CREDITORS AND OTHERS**
Re: Estate of
**LOIS IRENE SMITH**
deceased,
formerly of
216-1585 Field Road,
Sechelt, BC V0N 3A1

Creditors and others having claims against the Estate of **LOIS IRENE SMITH,** deceased, are hereby notified under section 38 of the *Trustee Act* that particulars of their claims should be sent to the Executor, Russell F. Crum, c/o Russell F. Crum Law Office, Suite 100-938 Gibsons Way, Gibsons, B.C. V0N 1V7 on or before May 31, 2011, after which date the Executor will distribute the estate among the parties entitled to it, having regard to the claims of which the Executor then has notice.

## 6025 For Sale By Owner


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We help you keep your money.

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www.PropertyGuys.com
604.741.5706

Sell Your House. Pay Yourself. PropertyGuys.com


## 6030 Houses For Sale

**1 YR** old, 2 bdrm apt., West First & Cambie, for part trade/land or cottage. 604-885-2521.


Please give to the FOOD BANK
Salvation Army Food Bank 604-886-3665
Sechelt Food Bank 604-885-5881, ext. #240


## 6030 Houses For Sale

**DO YOU** have bare land? 1,350 sq.ft. 2 bdrm, 2 bath bungalow available to move onto your land. Excellent condition, incls. appliances. www.nickelbros.com/0914311

# Attention: Stu Young

**Gibsons & District Public Library**

**470 South Fletcher Road**
**Box 109, Gibsons, BC**
**Canada V0N 1V0**

**Phone: 604-886-2130**
**Fax: 604-886-2689**

# Attached please find a copy of Woodlot Licence Plan #1

**This document is to be available to the public during Library hours as a reference document from May 27 to June 27, 2011.**

**Stu, please call me @ 1-604-485-4014 for any questions you may have. I or a designated person will pick up the plan and any comments shortly after June 27th.**

**Thanks,**

**Blair Wriglesworth**

# Woodlot License Plan
# Public Comment & Review
# Licence W0039- Gambier Island

| Name | Phone | Address | COMMENTS |
|---|---|---|---|
| Ross Muirhead logging focus@gmail.com | 740-5654 | Roberts Creek BC | Is the CW4 block proposed in 6 seperate parcels? What is the total area to be logged? |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

# Gambier Forest Resources Ltd.

Gambier Forest Resources Limited
RR3
Gibsons, British Columbia
Canada V0N 1V0
Tel (604) 886-2871
Fax (604) 886-2837

July 16, 2011

Ross Muirhead
Elphinstone Logging Focus
PO Box 85
Roberts Creek, BC

Attention: Ross Muirhead

Dear Sir,

**Re: Woodlot Licence Plan #1 (WLP) - Review and Comment - Woodlot License W0039**

Gambier Forest Resources is pleased to respond to your comments left at the Gibson's & District Public Library during the recent public Review and Comment Period. I was just reviewing the public comments today and noted your questions. I received them on July 14, 2011 and as the review period has drawn to a close, I am now responding to all public comments.

**Question #1: Is the cut-block(s) proposed in 6 separate parcels?**

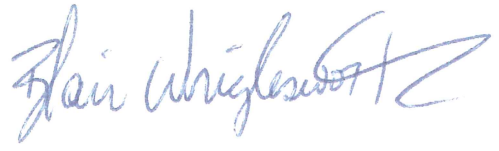
The plan shows the 400 hectare woodlot boundary with features like contours and forest cover, streams, roads, adjacent private land holders, and Wildlife Tree Retention Areas (WTRA) anchored on Whispering and Mannion Creek. There are 6 polygons that I believe you are referring to in your question above that represent previous cut-blocks harvested since 1990 when the woodlot was first created. For example, there are 2 polygons now showing a forest cover label as Fir and Cedar lead at site index 27. These stands were the first two harvested in 1990 and are 20+ years old, healthy and fully stocked with fir and cedar trees. The remaining 4 polygons depict other cut-blocks harvested as recently as 2010. There are no proposed blocks on the current WLP as no future harvest blocks have been created as of yet until the WLP is approved. The WLP outlines the licensee's strategies for managing and protecting Forest Values into the future and formulate the essential plan as blocks are formulated for future timber harvesting.

**Question #2: What is the total area to be logged?**

The woodlot is approximately 400ha in size and is managed in a sustainable manner. The allowable annual cut is set by the government. It is currently set at 2675m3 per annum or 13,375m3 in any 5 year period. The design of cut-blocks and their forward planning is guided by these amounts and must follow the approved planning principles in the WLP. This ensures a well planned and efficient woodlot that allows for forest products and protection of a range of forest values.

The concerns you express is noted and I thank you for your comments. If you have any questions regarding this letter or require further information, please call Blair Wriglesworth, Forest Consultant at (604)-485-4014.

Sincerely,



Overlander Resources Ltd.
3390 Mackenzie Ave.
Powell River, B.C.
V8A 5G2

Email: overlanres@shaw.ca Ph: (604) 485-4014 Office

REFERRAL

OVERLANDER
RESOURCES LTD

3390 Mackenzie Avenue, Powell River, B.C. V8A 5G2
Phone / Fax: (604) 485-4014 Cell: (604) 223-1718
E-mail: overlanres@shaw.ca

May 26, 2011

Ministry of Forests, Lands and Natural Resource Operations
Sunshine Coast Forest District
7077 Duncan Street
Powell River, B.C.
V8A 1W1

Attention: Chuck Anderson, RPF

Dear Mr. Anderson

**RE: Proposed Woodlot Licence Plan – W0039**

A copy of the proposed Woodlot Licence Plan Forest covering Woodlot W0039 is being submitted with this letter. The plan is within the Howe draft Landscape Unit and is located on the SW side of Gambier Island next to Thornbrough Channel. The plan was prepared in accordance with the *Forest Planning Practices Act* and *Woodlot Planning and Practices Regulations*.

On behalf of Gambier Forest Resources Ltd, enclosed is the WLP plan including maps. I can be reached at (604) 485-4014.

Yours truly,

Blair Wriglesworth, RPF
Forest Consultant (for Gambier Forest Resources Ltd.)

Encl. WLP

## Blair Wriglesworth

**From:** Blair Wriglesworth [overlanres@shaw.ca]
**Sent:** June 2, 2011 3:27 PM
**To:** 'chuck.Anderson@gov.bc.ca'
**Subject:** Gambier Island Woodlot W0039

Hello Chuck,

On behalf of Gambier Forest Resources, I would like to submit a Woodlot Licence Plan (WLP) for you viewing. I have attached a cover letter in the package of documents above. This is Woodlot Licence Plan #1 for Woodlot W0039.
We are currently undergoing a 30 day comment and review period from May 27th to June 27th as advertised in the Coast Reporter Newspaper for the public. I will contact you shortly to ensure you received Woodlot Licence Plan #1 and update you on First Nations consultation and Islands Trust consultation.

I also went down to Gambier Island last weekend and dropped a copy of the plan at the Gibsons Public Library before meeting Bill at the Woodlot. I provided a copy of the plan to Bill for his consultation efforts on Gambier Island and he posted a public notice at the Gambier hall for more exposure to the plan.

Talk to you soon.

Regards,

Blair Wriglesworth, RPF
Forest Consultant
Overlander Resources Ltd.
Email: overlanres@shaw.ca
Ph: 604-485-4014

OVERLANDER
RESOURCES LTD

3390 Mackenzie Avenue, Powell River, B.C. V8A 5G2
Phone / Fax: (604) 485-4014 Cell: (604) 223-1718
E-mail: overlanres@shaw.ca

May 26, 2011

Mailing Address:
Islands Trust
700 North Rd
Gabriola Island, BC
V0R 1X3

Attention: Joyce Clegg, Gambier Island Trustee

Dear Mrs. Clegg

**RE: Proposed Woodlot Licence Plan – W0039**

A copy of the proposed Woodlot Licence Plan Forest covering Woodlot W0039 is being submitted with this letter. The plan is within the Howe draft Landscape Unit and is located on the SW side of Gambier Island next to Thornbrough Channel. The plan was prepared in accordance with the *Forest Planning Practices Act* and *Woodlot Planning and Practices Regulations*.

On behalf of Gambier Forest Resources Ltd, enclosed is the WLP plan including maps. I can be reached at (604) 485-4014.

Yours truly,

Blair Wriglesworth, RPF
Forest Consultant (for Gambier Forest Resources Ltd.)

Encl. WLP

## Blair Wriglesworth

**From:** Joyce Clegg [jclegg@islandstrust.bc.ca]
**Sent:** May 26, 2011 9:38 PM
**To:** Blair Wriglesworth
**Subject:** RE: Gambier Island Woodlot W0039

Hello Blair -

Thanks for sending me the information on the Licence Plan for Bill Errico's woodlot. I will forward it to Sonja Zupanec, our Gambier Island Planner.

Regards
Joyce Clegg
Gambier Island Local Trustee
604-886-2763

---

**From:** Blair Wriglesworth [overlanres@shaw.ca]
**Sent:** May 26, 2011 6:14 PM
**To:** Joyce Clegg
**Subject:** Gambier Island Woodlot W0039

Hello Joyce,

Further to our conversation earlier today, on behalf of Gambier Forest Resources, I would like to submit a Woodlot Licence Plan (WLP) for you viewing. I have attached a cover letter in the package of documents above. This is Woodlot Licence Plan #1 for Woodlot W0039.

We are currently undergoing a 30 day comment and review period from May 27th to June 27th as advertised in the Coast Reporter Newspaper for the public and would gladly answer any questions you may have in regard to this plan.

I will contact you shortly to ensure you received Woodlot Licence Plan #1 for this referral.

Regards,

Blair Wriglesworth, RPF
Forest Consultant
Overlander Resources Ltd.
Email: overlanres@shaw.ca
Ph: 604-485-4014

## Blair Wriglesworth

**From:** Sonja Zupanec [szupanec@islandstrust.bc.ca]
**Sent:** June 17, 2011 2:15 PM
**To:** overlanres@shaw.ca
**Cc:** Joyce Clegg; Jan Hagedorn; Louise Bell; Chris Jackson
**Subject:** RE: Gambier Island Woodlot W0039

Hi Blair,

Please find attached referral response comments from Islands Trust planning staff regarding woodlot plan W0039 on Gambier Island. If you have any questions please contact me directly.

Sonja Zupanec, M.C.I.P.
Island Planner (Gambier and Hornby Island Local Trust Committees)
Islands Trust
700 North Road, Gabriola Island, B.C. V0R 1X3
Ph: 250.247.2211 or toll free 1.800.663.7867
Fx: 250.247.7514
www.islandstrust.bc.ca

*Preserving Island communities, culture and environment*

Please consider the environment before printing this email

---

**From:** Blair Wriglesworth [overlanres@shaw.ca]
**Sent:** May 26, 2011 6:14 PM
**To:** Joyce Clegg
**Subject:** Gambier Island Woodlot W0039

Hello Joyce,

Further to our conversation earlier today, on behalf of Gambier Forest Resources, I would like to submit a Woodlot Licence Plan (WLP) for you viewing. I have attached a cover letter in the package of documents above. This is Woodlot Licence Plan #1 for Woodlot W0039.

We are currently undergoing a 30 day comment and review period from May 27th to June 27th as advertised in the Coast Reporter Newspaper for the public and would gladly answer any questions you may have in regard to this plan.

I will contact you shortly to ensure you received Woodlot Licence Plan #1 for this referral.

Regards,

Blair Wriglesworth, RPF
Forest Consultant
Overlander Resources Ltd.
Email: overlanres@shaw.ca
Ph: 604-485-4014

Islands Trust

700 North Road, Gabriola Island, BC, BC V0R 1X3
Telephone **250 247-2063** Fax 250 247-7514
Toll Free via Enquiry BC in Vancouver 660-2421. Elsewhere in BC **1.800.663.7867**
Email northinfo@islandstrust.bc.ca
Web www.islandstrust.bc.ca

June 15, 2011

File Number: GM/14
Your File: W0039

Blair Wriglesworth, RFP
Overlander Resources
3390 Mackenzie Avenue
Powell River, BC V8A 5G2

Dear Blair Wriglesworth:

**Re: Woodlot Licence #W0039 Plan #1**

We offer you with the following comments on the woodlot licence proposal on Gambier Island.

Land use regulations in effect and adopted by the Gambier Island Local Trust Committee (LTC) do not apply to forestry activities on Crown land, as these areas are under the jurisdiction of the Ministry of Forests and Range woodlot licensing program jurisdiction. The following comments are for your consideration.

**Gambier Island Land Use Bylaw No. 86, 2004**

*Gambier Island Land Use Bylaw No. 86, 2004* is a bylaw to establish regulations and requirements respecting the use of land, including the surface of water, the use, siting and size of buildings and structures and subdivision of land within the Gambier Island Local Trust Area. The woodlot license proposal is consistent with the Gambier Island Land Use Bylaw.

**Forest (F) Zone**

The permitted uses in the F Zone include woodlot use and timber harvesting. A copy of the F Zone excerpt from the Land Use Bylaw is attached for your reference.

**Gambier Island Official Community Plan Bylaw No. 73, 2001**
*Gambier Island Official Community Plan No. 73, 2002* is a bylaw to adopt the official community plan for Gambier Island. The proposed woodlot licence area is designated 'Forestry' on Schedule B – Land Use Designation Map (attached), and falls within 'Development Permit Area Number 1 – Watershed and Streamside Protection and Enhancement Areas'. The Development Permit Area designation has no effect at this time as a zoning bylaw containing guidelines for development has not been adopted.

Schedule C – Environmentally Sensitive Areas (attached) indicates that old growth forest is present in the woodlot license area The OCP policies encourage woodlot licensing on Crown lands in cases where this would create locally based economic opportunities for small scale sustainable forestry, including providing logs for local processing. The OCP policies also encourage the retention and preservation of old growth trees and forests on Gambier Island.

Thank you for the opportunity to comment on the woodlot licence plan for Gambier Island.

Sincerely,

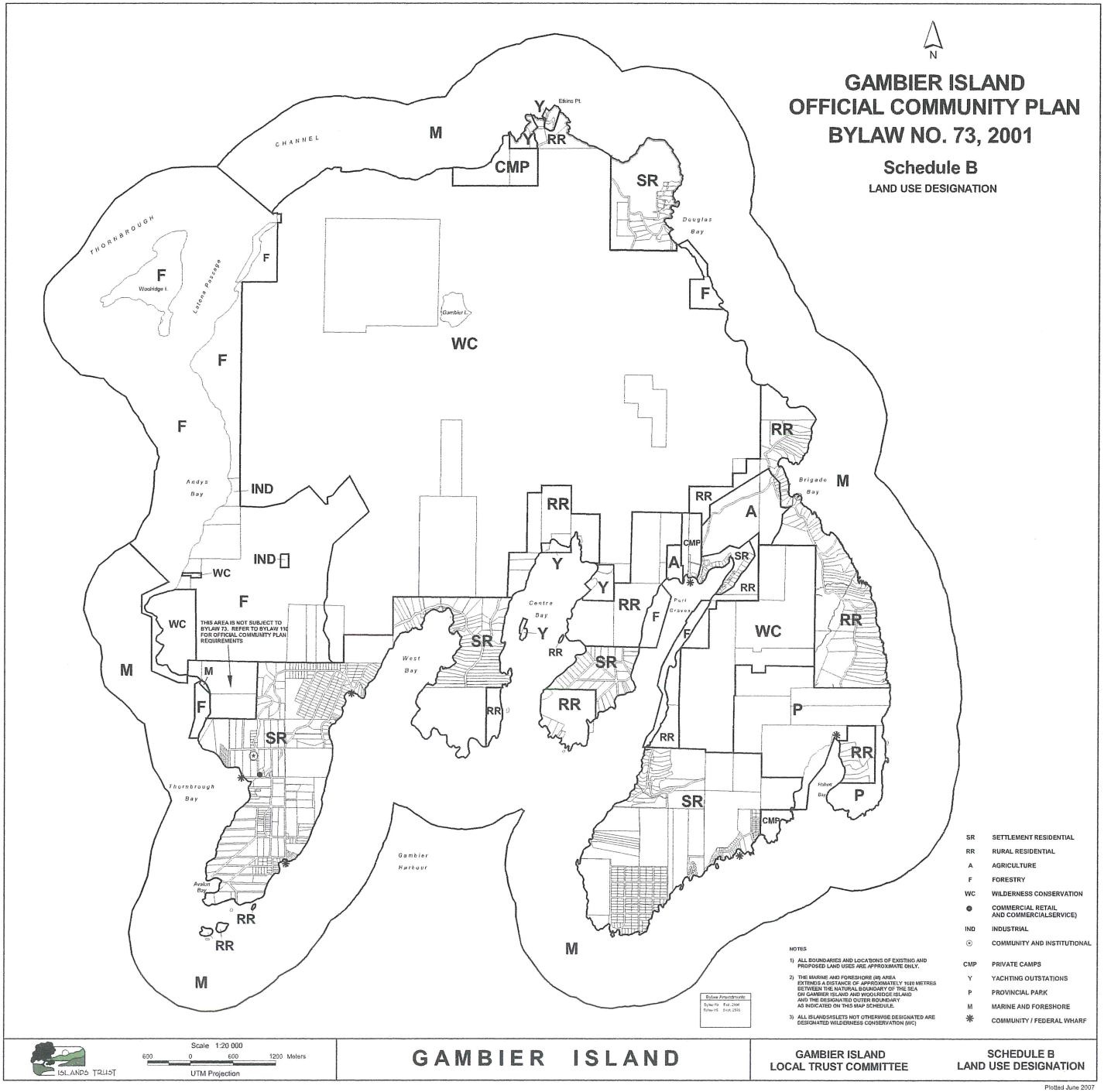
S Zupanec

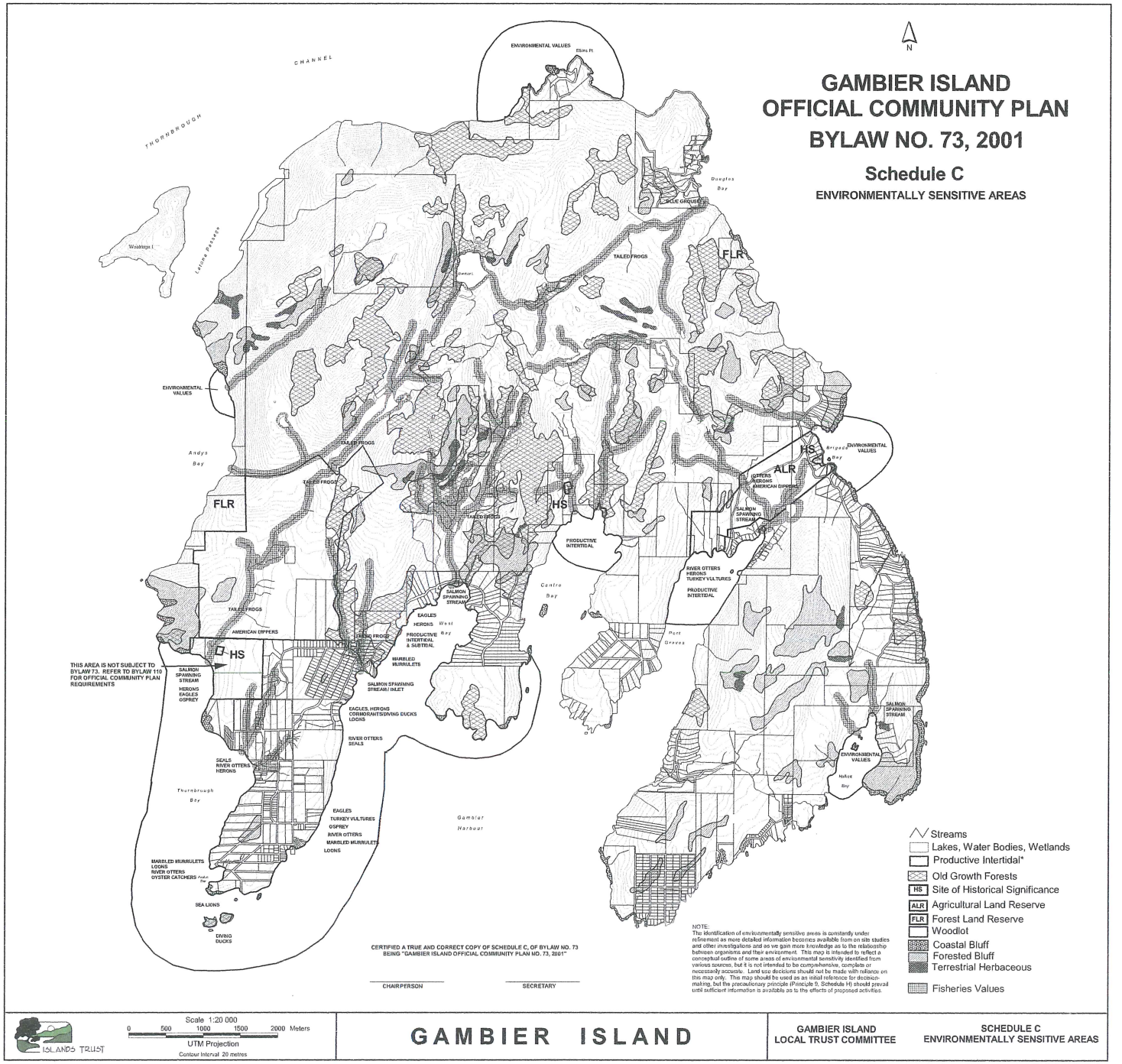
Sonja Zupanec, M.C.I.P.
Island Planner
Local Planning Services
szupanec@islandstrust.bc.ca
250. 247.2211

Attachment(s)

pc: Gambier Island Local Trust Committee
Chris Jackson, Regional Planning Manager, Northern Office

k:\ltc\northern gambier\applications & referrals\crown referrals\2011\woodlot licence w0039\referral letter.doc


N
GAMBIER ISLAND
OFFICIAL COMMUNITY PLAN
BYLAW NO. 73, 2001
Schedule B
LAND USE DESIGNATION
CHANNEL
THORNBROUGH
Laconia Passage
Woodridge I.
Elkins Pt.
Douglas Bay
Gambier L.
Andys Bay
Brigade Bay
Centre Bay
Port Graves
West Bay
Thornbrough Bay
Avalon Bay
Gambier Harbour
Halkett Bay
THIS AREA IS NOT SUBJECT TO BYLAW 73. REFER TO BYLAW 110 FOR OFFICIAL COMMUNITY PLAN REQUIREMENTS
SR SETTLEMENT RESIDENTIAL
RR RURAL RESIDENTIAL
A AGRICULTURE
F FORESTRY
WC WILDERNESS CONSERVATION
COMMERCIAL RETAIL AND COMMERCIALSERVICE)
IND INDUSTRIAL
COMMUNITY AND INSTITUTIONAL
CMP PRIVATE CAMPS
Y YACHTING OUTSTATIONS
P PROVINCIAL PARK
M MARINE AND FORESHORE
COMMUNITY / FEDERAL WHARF
NOTES
1) ALL BOUNDARIES AND LOCATIONS OF EXISTING AND PROPOSED LAND USES ARE APPROXIMATE ONLY.
2) THE MARINE AND FORESHORE (M) AREA EXTENDS A DISTANCE OF APPROXIMATELY 1620 METRES BETWEEN THE NATURAL BOUNDARY OF THE SEA ON GAMBIER ISLAND AND WOODRIDGE ISLAND AND THE DESIGNATED OUTER BOUNDARY AS INDICATED ON THIS MAP SCHEDULE.
3) ALL ISLANDS/ISLETS NOT OTHERWISE DESIGNATED ARE DESIGNATED WILDERNESS CONSERVATION (WC)
Bylaw Amendments
Scale 1:20 000
600 0 600 1200 Meters
UTM Projection
ISLANDS TRUST
GAMBIER ISLAND
GAMBIER ISLAND
LOCAL TRUST COMMITTEE
SCHEDULE B
LAND USE DESIGNATION
Plotted June 2007


GAMBIER ISLAND
OFFICIAL COMMUNITY PLAN
BYLAW NO. 73, 2001
Schedule C
ENVIRONMENTALLY SENSITIVE AREAS
N
CHANNEL
THORNBOROUGH
ENVIRONMENTAL VALUES
Ellins Pt
Douglas Bay
ROCK GROUSE
TAILED FROGS
FLR
Woodlands I
Lasqueti Passage
Andys Bay
ENVIRONMENTAL VALUES
TAILED FROGS
HS
ALR
Brigade Bay
ENVIRONMENTAL VALUES
OTTERS
HERONS
AMERICAN DIPPERS
SALMON SPAWNING STREAM
PRODUCTIVE INTERTIDAL
RIVER OTTERS
HERONS
TURKEY VULTURES
PRODUCTIVE INTERTIDAL
Centre Bay
SALMON SPAWNING STREAM
EAGLES
HERONS
West Bay
PRODUCTIVE INTERTIDAL & SUBTIDAL
MARBLED MURRULETS
AMERICAN DIPPERS
TAILED FROGS
THIS AREA IS NOT SUBJECT TO BYLAW 73. REFER TO BYLAW 110 FOR OFFICIAL COMMUNITY PLAN REQUIREMENTS
SALMON SPAWNING STREAM
HERONS
EAGLES
OSPREY
SALMON SPAWNING STREAM / INLET
EAGLES, HERONS
CORMORANTS/DIVING DUCKS
LOONS
RIVER OTTERS
SEALS
SEALS
RIVER OTTERS
HERONS
Thornbrough Bay
EAGLES
TURKEY VULTURES
OSPREY
RIVER OTTERS
MARBLED MURRULETS
LOONS
Gambier Harbour
MARBLED MURRULETS
LOONS
RIVER OTTERS
OYSTER CATCHERS
SEA LIONS
DIVING DUCKS
Port Graves
SALMON SPAWNING STREAM
ENVIRONMENTAL VALUES
Halkett Bay
Streams
Lakes, Water Bodies, Wetlands
Productive Intertidal*
Old Growth Forests
HS Site of Historical Significance
ALR Agricultural Land Reserve
FLR Forest Land Reserve
Woodlot
Coastal Bluff
Forested Bluff
Terrestrial Herbaceous
Fisheries Values
NOTE:
The identification of environmentally sensitive areas is constantly under refinement as more detailed information becomes available from on site studies and other investigations and as we gain more knowledge as to the relationship between organisms and their environment. This map is intended to reflect a conceptual outline of some areas of environmental sensitivity identified from various sources, but it is not intended to be comprehensive, complete or necessarily accurate. Land use decisions should not be made with reliance on this map only. This map should be used as an initial reference for decision-making, but the precautionary principle (Principle 5, Schedule H) should prevail until sufficient information is available as to the effects of proposed activities.
CERTIFIED A TRUE AND CORRECT COPY OF SCHEDULE C, OF BYLAW NO. 73 BEING "GAMBIER ISLAND OFFICIAL COMMUNITY PLAN NO. 73, 2001"
CHAIRPERSON
SECRETARY
ISLANDS TRUST
Scale 1:20 000
0 500 1000 1500 2000 Meters
UTM Projection
Contour Interval 20 metres
GAMBIER ISLAND
GAMBIER ISLAND LOCAL TRUST COMMITTEE
SCHEDULE C ENVIRONMENTALLY SENSITIVE AREAS
PLOTTED JAN 31/02

## 5.4 Forest (F) Zone

*The purpose of the Forest Zone is to provide regulations to support small-scale forestry such as community forestry and woodlot use, and coastal log storage and handling use in the marine area adjacent to upland Forest zoned lots.*

**Permitted Uses**

(1) The following uses are permitted, subject to the regulations set out in this Section and Part 3, and all other uses are prohibited:

- (a) Forestry;
- (b) Single family residential use;
- (c) Wilderness outdoor recreation;
- (d) Nature and heritage appreciation;
- (e) Fish and wildlife habitat protection;
- (f) Research and education;
- (g) Accessory uses to forestry including but not limited to log dumping, log storage and fire suppression.

**Permitted Buildings, Structures and Density**

(2) One single family dwelling is permitted.

(3) Buildings and structures accessory to permitted uses are permitted.

(4) The maximum total lot coverage for all buildings and structures is 5% of the total lot area.

**Siting and Size**

(5) The minimum setback for any building or structure is:

- (a) 7.5 metres from any front or rear lot line;
- (b) 6 metres from any interior side lot line;
- (c) 6 metres from any exterior side lot line;

(6) Despite regulation 3.3(1), the minimum setback for any building or structure from a lake or stream is 40 metres.

(7) The maximum height of accessory buildings and structures is 7 metres.

**Conditions of Use**

(8) Accessory log booming and log storage use is limited to the marine area of the Forest Zone.

(9) Forest use in the marine area, including accessory log booming and storage, shall not use the natural rock face of the adjacent upland as a sign.

*Information Note: Some words and phrases are defined in Part 1.*

*A chart at the end of the Bylaw provides approximate imperial equivalents.*

**Subdivision Lot Area Requirements**

(10) The minimum lot area is 20 hectares in the upland area.

(11) The minimum average lot area is 20 hectares in the upland area.