Forest Management Plan

Private Native Forestry Code of Practice

|  |  |
| --- | --- |
| Private Native Forestry Plan Number (PNF Plan No.) that this Forest Management Plan relates to: | |
|  | |
| Name of the primary landholder: | |
|  | |
| Contact details of the primary landholder: | |
| Ph: | Email: |
| Name of the landholdings this FMP applies to (if applicable): | |
|  | |
| Property address: | |
|  | |

This template sets out the information you need to record for a Forest Management Plan (FMP) that complies with th*e Private Native Forestry Code of Practice (PNF Code of Practice) r*elevant to your forest.

Throughout this document you will see references to the FMP Guidelines. These Guidelines accompany this FMP Template and contain background information, extra instructions, tips and examples to help you complete the FMP and explains what you have to do with the FMP once it is complete.

If you require further assistance in preparing your Forest Management Plan, contact your local Private Native Forestry Officer (see <https://www.lls.nsw.gov.au/help-and-advice/private-native-forestry/private-native-forestry-officer-contacts>). Alternatively you can contact a member of the team at [pnf.info@lls.nsw.gov.au](mailto:pnf.info@lls.nsw.gov.au) or on 1300 795 299.

Once you have prepared your Forest Management Plan, please email it to [pnf.info@lls.nsw.gov.au](mailto:pnf.info@lls.nsw.gov.au) for approval.

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# 1. Forest Management Plan (FMP) map

## 1.1. FMP map checklist

Refer to the FMP Guidelines – page 10

The FMP map includes the boundaries of the landholding(s), areas where harvest operations and/or forestry operations will occur, and areas adjacent to the area subject to the Forest Management Plan. The FMP map must also record the following features along with any associated buffer or exclusion zones if they are present within the FMP area.

**Features shown on the FMP base map**

1. Check that the FMP base map (supplied by LLS) shows the location of the following features, where they are present in the FMP area:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Forested areas |  | Areas of outstanding biodiversity value |
|  | Recorded locations of any threatened species listed in Appendix A |  | Wetlands and surrounding 20 metre area |
|  | Recorded locations of any threatened populations |  | Rainforest |
|  | Slope angles (where available) |  | Old growth forest |
|  | Areas mapped as PNF Core Koala Habitat (PNF Code for Northern NSW only) |  | Mapped drainage features and associated riparian exclusion zones |
|  | Areas identified as high koala habitat suitability |  | Areas where annual rainfall erosivity is equal to or greater than 6000 (PNF Code for Northern NSW only) |

1. Check that the FMP base map (supplied by LLS) shows the location of the following features, where they are present adjacent to the FMP area:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Forested areas |  | Areas mapped as PNF Core Koala Habitat (PNF Code for Northern NSW only) |
|  | Recorded locations of any threatened species listed in Appendix A |  | Areas of outstanding biodiversity value |
|  | Recorded locations of any threatened populations and communities |  | Wetlands and surrounding 20 metre area |
|  | Areas identified as high koala habitat suitability |  | Mapped drainage features and associated riparian exclusion zones |

Mark the following additional features on the FMP map if they are present in the FMP area (**Attachment 1**).

Before you mark roads or crossings on the FMP map(s) (*\*\**), refer to section 5 of this FMP template. The names and numbers you use on the map should be the same as the names and numbers used in the tables.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Features | Northern NSW | Southern NSW | Cypress/ Western Hardwoods | River Red Gum |
| Threatened ecological communities |  |  |  |  |
| Site evidence of threatened species as listed in Appendix A of the PNF Code of Practice, if you find this during forestry operations |  |  |  |  |
| Wetlands and surrounding 20 metre area |  |  |  |  |
| Heathlands and surrounding 20 metre area |  |  |  |  |
| Rocky outcrops and surrounding 20 metre area |  |  |  |  |
| Cliffs, caves, tunnels and disused mine shafts (excluding open pits less than 3m deep) and surrounding 10 metre area |  |  |  |  |
| Steep slopes |  |  |  |  |
| Aboriginal objects or places and associated protection zones |  |  |  |  |
| Listed heritage items and surrounding 10 metre area |  |  |  |  |
| Areas of existing mass movement |  |  |  |  |
| Dispersible and highly erodible soils |  |  |  |  |
| Location of silvicultural treatments outlined in the Forest Management Plan |  |  |  |  |
| Existing and proposed roads\*\* |  |  |  |  |
| Existing and proposed drainage feature crossings\*\* |  |  |  |  |
| Log landings |  |  |  |  |
| Portable mill sites |  |  |  |  |

**Note**: The PNF Code identifies the parts of the Forest Management Plan that can be amended without LLS approval. As per Clause 4.1(7) of the PNF Code, the landholder can amend the following parts of the Forest Management Plan Map:

* slope angles
* the location of silvicultural treatments outlined in the Forest Management Plan
* the indicative location of existing and proposed roads and drainage feature crossings within the FMP area
* the indicative location of log landings and portable mill sites within the FMP area

Any amendments to other parts of the FMP Map may only occur with the approval of Local Land Services.

# 

# 2. Forest management

The following written section outlines the Forest Management Plan. Sections below can be amended by the landholder, however Local Land Services must be notified as soon as possible after the amendment is made.

## 2.1. Forest management objectives

Refer to the FMP Guidelines – page 11

The landholder(s)’ forest management objectives are as follows:

## 2.2. Pre-harvest forest condition

Refer to the FMP Guidelines – page 11-13

The table below has been completed to provide a current description of the pre-harvest condition of the forest.

|  |  |
| --- | --- |
| **Forest characteristic** | **Description** |
| Overstory species type and composition |  |
| Known disturbance and harvest history (e.g. previous harvests, fire, grazing etc) |  |
| Pre-harvest basal area |  |
| Stand height (if undertaking Australian Group Selection) |  |
| Pests present in the FMP area |  |
| Weeds present in the FMP area |  |

## 

## 2.3. Details of harvesting, silvicultural treatments and forestry operations

An overview of the harvesting and other forestry operations planned to be carried out within the Forest Management Plan is provided below:

Silvicultural techniques to be used within the FMP area:

single tree selection

thinning

Australian group selection

## 2.4. Post-harvest stand basal area objective

The basal area proposed across the FMP area following the harvest activities:

**Note**: single tree selection and thinning operations must not reduce the stand basal area below the limit included in the relevant *PNF Code of Practice*.

## 2.5. Regeneration, stocking and post-harvest management

Refer to the FMP Guidelines – page 14.

Clause 5.4 of the *PNF Code of Practice* (Clause 5.3 in *PNF Code of Practice for Cypress & Western Hardwoods*)sets out the minimum stand stocking that must be achieved following a regeneration event, and the monitoring of the forest regeneration, composition and condition at 2, 6 and 10 years following the regeneration event.

Details of any post-harvest activities that will be undertaken to promote regeneration:

## 2.6. Pest and weed management

Pest and weed management activities proposed in the FMP area are identified below (where applicable).

## 2.7. Fire management

Fire management activities proposed in the FMP area are identified below (where applicable).

## 2.8. Research and monitoring

Details of the research and monitoring plots within the FMP area are identified below (where applicable).

# 3. Flora and fauna management

## 3.2. Listed species

Refer to the FMP Guidelines – page 15-16.

Appendix A of the *PNF Code of Practice* outlines how threatened plants and animals are protected in PNF areas. Protections differ for each species and include management actions such as exclusion zones, buffer zones, and tree retention.

|  |  |  |
| --- | --- | --- |
| Are there any known records of listed species in the FMP area? | Yes | No |
| Is there any site evidence of listed species in the FMP area? | Yes | No |

If there are listed species within your FMP map area, please provide relevant details in the table below. *(Additional rows can be added if necessary).*

**Note:** Where the species is identified as a Bionet record supplied by LLS, and where required a Bionet Atlas Data Agreement has been approved, refer to the Threatened Species Map supplied by LLS for further species information/ identification. Make sure the numbers you use to describe the record sites in the table are also used on the FMP map.

Names of species identified through site evidence can be included in the table.

Table: Threatened species occurring in the FMP area

| **Identifying number (matching the FMP map)** | **Is the species fauna or flora?** | **What protection is this species afforded (i.e. exclusion zone, buffer zone, tree retention etc) - please provide a brief outline** | **Any other management actions undertaken** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

*\* If you find site evidence of a species listed in Appendix A during your forestry operations you need to ensure the protections in Appendix A of the PNF Code of Practice are applied. This may also prompt an update of your FMP.*

# 4. Tree markings

Refer to the FMP Guidelines – page 16-17.

The table below outlines which tree markings will be used in the forestry operations covered by this FMP. *(Additional rows have been provided for you to specify any other markings you will be using.)*

| **Feature being identified** | **Field marking symbol** | **Comment** | **Will this marking be used (Y/N)** |
| --- | --- | --- | --- |
| FMP area boundary | Single pink tape or painted Ring  **\_** | Preference is to use tape for boundary and exclusion/buffer zones etc. However, paint should be used if there is the potential of interference from third parties. |  |
| Exclusion Zones | Single orange tape or three painted lines  **\_**  **\_**  **\_** | This covers all exclusion zones (i.e., Exclusion Zones, Riparian Exclusion Zones, Threatened species Exclusion Zones, Machinery Exclusion Zones) |  |
| Buffer zone | Single blue tape or two painted lines  **\_**  **\_** | This covers all buffer zones (i.e., buffer zones, riparian buffer zones) |  |
| Log landing or portable mill site | **LD** |  |  |
| Stream crossing site | Tape across stream above and below crossing, extended at least to Exclusion Zone marking | Tape identifies the area where vehicles are to cross. Tape must extend from the start of the exclusion zone, across the waterway, to the start of the opposite exclusion zone. |  |
| Trees to be removed (Merchantable) | **M or Dot** |  |  |
| Directional felling mark | **M or Dot with →** | The arrow should point in the direction which the tree should be felled. |  |
| Trees to be retained for growing on | Single pink tape or painted ring |  |  |
| Habitat trees to be retained | **H** |  |  |
| Recruitment trees to be retained | **R** |  |  |
| Other trees to be retained  (including feed, roost, nest and individual species) | Single pink tape or painted ring | Distinguishing between other retained trees is not required, but if you would like to do so, you can also include initials for the tree types, i.e.   * F for Feed Trees * D for dead standing trees * K for Koala trees etc.   If you do choose to use additional letters, it is important to make sure they are not already being used elsewhere or are similar to other symbols which may get mistaken in the field (i.e., N might be mistaken for a M) |  |
| Boundary of Australian Group Selection Canopy opening | Asterix  **\*** |  |  |
| Boundary of listed threatened species buffer area (where threated species requires total exclusion, use exclusion zone marking symbol) | Single pink tape or painted ring with a T  **\_**  **T** | Unless specific purpose for identifying Threatened species buffer is identified, you may choose to use the general buffer zone markings. |  |

**Note:** Clause 8 and Appendix A of the *PNF Code of Practice* specifies exclusion zones, buffer zones and tree retention requirements.

# **5. Forest access, construction and maintenance of roads and drainage feature crossings**

Infrastructure used in the forest operations must comply with Clause 9 and other areas of the *PNF Code of Practice* that include prescriptions for infrastructure.Infrastructure including, roads, drainage crossing features, log landings and portable mill sites must be identified on the FMP map. Snig tracks do not need to be marked on your FMP map.

Further information must also be provided for road and draining crossing features below.

## 5.1. Forest access, construction and maintenance of roads

Refer to the FMP Guidelines – page 19-21.

Infrastructure used in the forestry operations must comply with the *PNF Code of Practice*. Clauses 9.1. and 9.1.1. of the *PNF Code of Practice* relate specifically to the construction and maintenance of roads and their drainage.

The tables below provide details of the existing and new roads required for the forestry operations, with all of these roads identified on the FMP map (Attachment 1).

**Note**:

* Each road referred to on the FMP map must be included and identified the same way (i.e. road name or number).
* More than one existing road can be listed in each column of the table provided that the management actions are the same for these roads.
* Check that the roads are shown on the FMP map using the same names or numbers used in this table.
* The tables can be duplicated where more space is needed.

### 5.1.1. Existing roads

* Use the table below to provide details about how existing roads will be maintained or upgraded so they comply with the Code. Include all existing roads that will be used in the forest operations.

|  |  |  |
| --- | --- | --- |
|  | **(Enter name/number of road)** | **(Enter name/number of road)** |
| Does the current (pre-harvest) road condition comply with the Code? (Y/N).  If no, what maintenance or upgrade work will be required to bring the road up to the standard required? | Yes  No | Yes  No |
| How will soil erosion on roads be prevented? | Maintaining vegetation cover  Establishing grass cover  Crossfall or shaping  Drainage structures | Maintaining vegetation cover  Establishing grass cover  Crossfall or shaping  Drainage structures |
| Is the existing drainage up to standard with the Code? (Y/N) | Yes  No | Yes  No |
| How will drainage be provided (i.e. what types of drainage structures will be used? |  |  |
| Are fill and cut batters currently stable? (Y/N)  If no, what work will be carried out to stabilise them? | Yes  No | Yes  No |
| Will the road be stabilised and allowed to revegetate after this forestry operation? (Y/N) | Yes  No | Yes  No |

### 

### 5.1.2. New roads

* Use the table below to provide details about how new roads will comply with the Code. Include all new roads that will be used in forestry operations.

|  |  |  |
| --- | --- | --- |
|  | **(Enter name/number of road)** | **(Enter name/number of road)** |
| Will the road grade exceed 10 degrees? (Y/N)  If yes, provide the reason for the grade being 10-15 degrees.  *(not applicable to the PNF Code for River Red Gum Forests)* | Yes  No | Yes  No |
| Is any section of the road located with a slope greater than 25 degrees? (Y/N)  *(not applicable to the Code for River Red Gum Forests)* | Yes  No | Yes  No |
| How will fill or cut batters be stabilised? |  |  |
| How will soil erosion on roads be prevented? | Maintaining vegetation cover  Establishing grass cover  Crossfall or shaping  Drainage structures | Maintaining vegetation cover  Establishing grass cover  Crossfall or shaping  Drainage structures |
| How will drainage be provided (i.e. what types of drainage structures will be used? |  |  |
| Will the road be stabilised and allowed to revegetate after this forestry operation? (Y/N) | Yes  No | Yes  No |

## 

## 5.2. Construction and maintenance of crossings

Refer to the FMP Guidelines – page 22.

Infrastructure used in the forestry operations must comply with the *PNF Code of Practice*. Clauses 9.1.2. and 9.2.2 of the *PNF Code of Practice* relate specifically to drainage feature crossings.

The tables below provide details of the existing and new drainage feature crossings required for the forestry operations, with all of these crossing identified on the FMP map (Attachment 1).

**Note**: Each crossing referred to on the FMP basic map must be included and identified the same way (i.e. crossing name or number). If more than three crossings exist in each category, the tables can be duplicated.

### 5.2.1. Existing crossings

|  |  |  |  |
| --- | --- | --- | --- |
|  | **(Enter name/number of crossing)** | **(Enter name/number of crossing)** | **(Enter name/number of crossing)** |
| What type of structure is it (e.g. bridge, causeway, culvert etc)? |  |  |  |
| If an existing gully stuffer is to be used, has it been assessed as being stable?  (Note: It cannot be used if it requires additional construction to stabilise) |  |  |  |
| Does the crossing comply with the requirements of the Code? (Y/N)  If no, what maintenance work or upgrade work will be carried out to bring the crossing up to the Code standard? | Yes  No | Yes  No | Yes  No |
| What sediment and erosion control works will be carried out? |  |  |  |
| How will road drainage on the crossing approaches be provided? |  |  |  |

### 5.2.2. New crossings

|  |  |  |  |
| --- | --- | --- | --- |
|  | **(Enter name/number of crossing)** | **(Enter name/number of crossing)** | **(Enter name/number of crossing)** |
| What type of structure will the crossing be (e.g. bridge, causeway, culvert etc)? |  |  |  |
| What construction work will be carried out to build the crossing? |  |  |  |
| What sediment and erosion control works will be carried out? |  |  |  |
| How will road drainage on the crossing approaches be provided? |  |  |  |

# 6. FMP preparation

## 6.1. FMP preparation

Name/s of landholder or person nominated by the landholder who prepared this FMP:

|  |  |
| --- | --- |
| Name: | Role: |
| Name: | Role: |

# 7. Declarations

## 7.1. FMP requirements

**Note:** If the forestry operation is being conducted by a person(s) other than the landholder, they must be provided with the FMP to ensure that they read, sign and date the FMP and any amendments.

## 7.2. Landowner’s declaration

I/We, the landowner/s, declare that I/we have read and understand all the requirements set out in this Forest Management Plan (FMP).

|  |  |
| --- | --- |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |

**Note:** where there are joint landowners, this declaration may be signed by a single landowner only where that landowner has the authority to sign on behalf of all landowners.

## 7.3. Contractor/ third party declaration

I, the person contracted to carry out the forestry operations set out in this plan, declare that I have read and understand the requirements of this Forest Management Plan (FMP).

I will have a copy of this FMP and the PNF Plan approval on site during the operations.

I will notify the landowner immediately if there are any operational changes that require this FOP to be amended.

|  |  |  |
| --- | --- | --- |
| Name: | Signature: | Date: |
| Forestry Operations Start Date: | End Date: |  |

### 

### 7.3.1. Other workers declaration

I, as an individual who will be carrying out forestry operations on the site subject to the FMP, have read this FMP.

|  |  |
| --- | --- |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |
| Signature: | Date: |

**Note:** Any person who will work on the site during any stage of the forestry operations must read, sign and date this Forest Management Plan (FMP) and any amendments. This includes all new crew members who join the team during the operations, including workers such as haulage contractors.

# 

# 8. Notes and attachments

## 8.1. Amendments to the FMP

Amendments to this FMP are recorded in the table below and read, signed and dated by the landholder and anyone else carrying out forestry operations. Local Land Services must be notified of amendments to Forest Management Plans within 10 days after the amendment is made.

|  |  |  |  |
| --- | --- | --- | --- |
| **Date of amendment** | **Details of amendment** | **Which section of the FMP does this apply to?** | **Landholder/ contractor date and signature** |
|  |  |  |  |
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**Note:** As per Clause 4.1(8) all amendments must be consistent with the relevant provisions of the Code. Under the PNF Codes, the written Forest Management Plan can be amended by the landholder or nominated person except for the details of ownership of the land. Amendments to details of land ownership may only occur with the approval of Local Land Services.

## 8.2. Additional notes and comments (optional)

Any notes and comments you wish to include about the FMP area may be recorded below, for example:

* the recording of any requirements as noted in the *PNF Code of Practice* not covered above. i.e.:
  + If any trees are accidently felled into a riparian exclusion zone (as per Clause 8.4(6))
  + If the grade of a snig track exceeds 25 degrees (see PNF Code Clause 9.2.1(10)) (not applicable to the PNF Code for River Red Gum Forests)
* the recording of any allowable activities carried out in the FMP area
* any other notes or records you wish to include

## Attachment 1 – FMP map(s)

## Attachment 2 – Record of visual assessments for koalas

Note: This requirement only applies where:

* there is a record of a koala within 500m of, or within, the FMP area
* where 10 or more scats are found beneath a primary or secondary koala feed tree (or 1 scat where required by the relevant PNF Code of Practice)
* in areas mapped as high koala habitat suitability

**Table:** Record of visual assessment of each tree prior to being felled for koalas

|  |  |  |  |
| --- | --- | --- | --- |
| Date visual assessments carried out | Person undertaking assessment | Date visual assessments carried out | Person undertaking assessment |
|  |  |  |  |
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