

LANDSCAPE PLAN

Pavilion Farms Broiler Farms

290 Baringhup – Havelock Road, Baringhup West

Permit No. PA013 – 2014, PA014 – 2014 & PA015 - 2014 Mount Alexander Shire

SUMMARY

Each of Farm 1, Farm 2 and Farm 3 of the proposed development at 290 Baringhup – Havelock Road, Baringhup West will contain approximately two thousand four hundred (2,400) trees totaling four thousand eight hundred (7,200), mostly local indigenous seedlings, to be planted in four rows around the chicken sheds on each farm.

The overall length of windbreaks / vegetative screenings around sheds and boundary fences etc. will be approximately as approximately 3.6 kilometres consisting of 4 rows, (total approx. 14.4 kilometres) Species mix will comprise approx. 45% trees and 55% shrubs. All seedlings will sourced from local nurseries. All seedlings will be protected with milk carton/bamboo stake tree guards and watered in during planting.

SITE LOCATION

Shed screening vegetation approx. 12 metres wide consisting of 4 rows with evenly mixed species will be planted on the perimeters of the sheds and amenities areas. Refer to farm landscaping plan map at Attachment A showing tree plantings around each of the 3 planned farms.

SITE PREPARATION

All vegetation/tree sites will be sprayed with Glyphosate for weed control prior to planting, then deep ripped and rotary hoed to achieve suitable soil tilth and moisture retention in this relatively low rainfall area. (450-550 mm.)

SITE DESCRIPTION

The site consists of clay soils and clay loams overlying basalt rock.

Screw augers will be used to plant seedlings and to avoid glazing in these tight clay soils.

SPECIES LIST AND SPECIFICATIONS

All sites will be planted with mostly (70%) local indigenous species with trees and shrubs planted at approx. 2 metre spacings in rows approx. 3 metres wide, in an alternating pattern to ensure under storey and upper storey structure, to screen sheds and provide effective windbreaks with habitat value.

Scrub plantings will be slightly more than trees (55%/45%) to produce dense vegetation, especially to ensure adequate screening of sheds and amenity structures.

Baringhup West Chicken Farm plant list

Botanical Name	Common Name
<i>Acacia dealbata</i>	Silver Wattle
<i>A. mearnsii</i>	Black Wattle
<i>A. retinodes</i>	Wirilda
<i>A. verticillata</i>	Prickly Moses
<i>Allocasuarina littoralis</i>	Black Sheoak
<i>A. verticillata</i>	Drooping Sheoak
<i>Casuarina glauca</i>	Swamp Sheoak
<i>Callistemon violacea</i>	Violet Bottlebrush
<i>C. pallidus</i>	Yellow Bottlebrush
<i>Corymbia maculate</i>	Spotted Gum
<i>Dodonaea viscosa</i>	Giant Hop Bush
<i>Eucalyptus cladocalyx</i>	Sugar Gum
<i>E. cosmophylla</i>	Cup Gum
<i>E. leucoxydon rosea</i>	Red Flowering Yellow Gum
<i>E. melliodora</i>	Yellow Box
<i>E. macrocarpa</i>	Grey Box
<i>E. occidentalis</i>	Swamp Yate
<i>E. ovate</i>	Swamp Gum
<i>E. sideroxylon</i>	Ironbark
<i>E. viminalis</i>	Manna Gum
<i>E. yarraensis</i>	Yarra Gum
<i>Melaleuca decussate</i>	Cross-leaf Honey myrtle
<i>M. diosmafolia</i>	Green Flowering Honey myrtle
<i>M. ericifolia</i>	Swamp Paperbark
<i>M. helmatuorum</i>	Kangaroo Island Paperbark
<i>M. lanceolata</i>	Moonah
<i>Prostanthera nivea</i>	Snowy Mint-bush

Tree height and width for most species refer to third column below – note lower number should be used for lower rainfall areas. The plant species below refer to an existing Pavilion Partners farm at Anakie, Victoria. The land at that farm represents very similar characteristics to Baringhup Site

Indigenous plants of the Geelong Region

TREE SPECIES			Zone 17 Anakie East / Lovely Banks / Corio Basalt Plains	
Common name	Botanical name	Size (H x W m)	Well drained slopes/crests	Wetter areas
Lightwood	<i>Acacia implexa</i>	5-15 x 4-7	◆	
Black Wattle	<i>Acacia mearnsii</i>	8-25 x 6-10	◆	◆
Blackwood	<i>Acacia melanoxylon</i>	5-30 x 4-15		◆
Golden Wattle	<i>Acacia pycnantha</i>	3-10 x 2-5	◆	
Buloke	<i>Allocasuarina luehmannii</i>	5-15 x 5-10	◆	
Drooping Sheoke	<i>Allocasuarina verticillata</i>	4-11 x 3-6	◆	
River Red Gum	<i>Eucalyptus camaldulensis</i>	15-35 x 15-35		◆
Yellow Gum	<i>Eucalyptus leucoxylon ssp connata</i>	10-20 x 6-20		◆ uncommon
Yellow Box	<i>Eucalyptus melliodora</i>	10-30 x 8-25		◆
Grey Box	<i>Eucalyptus microcarpa</i>	10-25 x 10-15	◆ uncommon	
Red Box	<i>Eucalyptus polyanthemus</i>	7-25 x 5-15	◆ uncommon	
SHRUB SPECIES			Zone 17 Anakie East / Lovely Banks / Corio Basalt Plains	
Common name	Botanical name	Size (H x W m)	Well drained slopes/crests	Wetter areas
Hedge Wattle	<i>Acacia paradoxa</i>	2-4 x 2-5	◆	◆
Varnish Wattle	<i>Acacia verniciflua</i>	3-5 x 3-5	◆	◆
Silver Banksia	<i>Banksia marginata</i>	1-10 x 1-5	◆	◆
Sweet Bursaria	<i>Bursaria spinosa var macrophylla</i>	2-6 x 2-3	◆	◆
Turkey-bush	<i>Eremophila deserti</i>	1-4 x 2	◆	◆
Shrub Violet	<i>Hymenanthera dentata</i>	2-4 x 1-2.5	◆ stony rises	◆
Leafless Bluebush	<i>Maireana aphylla</i>	1 x 1	◆ uncommon (atypical)	
Tangled Lignum	<i>Muehlenbeckia florulenta</i>	2 x 2	◆	
Kangaroo Apple	<i>Solanum laciniatum</i>	1-3 x 1-3	◆	◆
GROUNDCOVER AND TUSSOCK SPECIES			Zone 17 Anakie East / Lovely Banks / Corio Basalt Plains	
Common name	Botanical name	Size (H x W m)	Well drained slopes/crests	Wetter areas
Red-leg Grass	<i>Bothriochloa macro</i>	0.2 x 0.8	◆	
Wallaby Grass	<i>Danthonia species</i>	0.2 x 0.4-1	◆	◆
Common Everlasting	<i>Chrysocephalum apiculatum</i>	0.3 x 1-2	◆	
Tussock Grass	<i>Poa labillardieri</i>	0.8 x 0.8		◆
Spear Grass	<i>Stipa species</i>	0.3 x 1-2	◆	◆
Kangaroo Grass	<i>Themeda triandra</i>	0.3 x 0.3	◆	

◆ - species is present in areas of remnant vegetation ◆ - species once occurred in this area

Local Indigenous Nurseries

Geelong Indigenous Nursery Ph. 5229 8087
 Greybox and Grasslands Indigenous Nursery Ph. 5369 5221

Further Contacts

City of Greater Geelong Environment Unit Ph. 5227 0270
 Department of Natural Resources & Environment Ph. 5226 4667
 Geelong Field Naturalists Club Inc. Ph. 5255 4291
 Corio Landcare Group Ph. 5283 1202
 Brisbane Ranges Landcare Group Ph. 5241 3660
 Anakie Tree Group Ph. 5284 1370

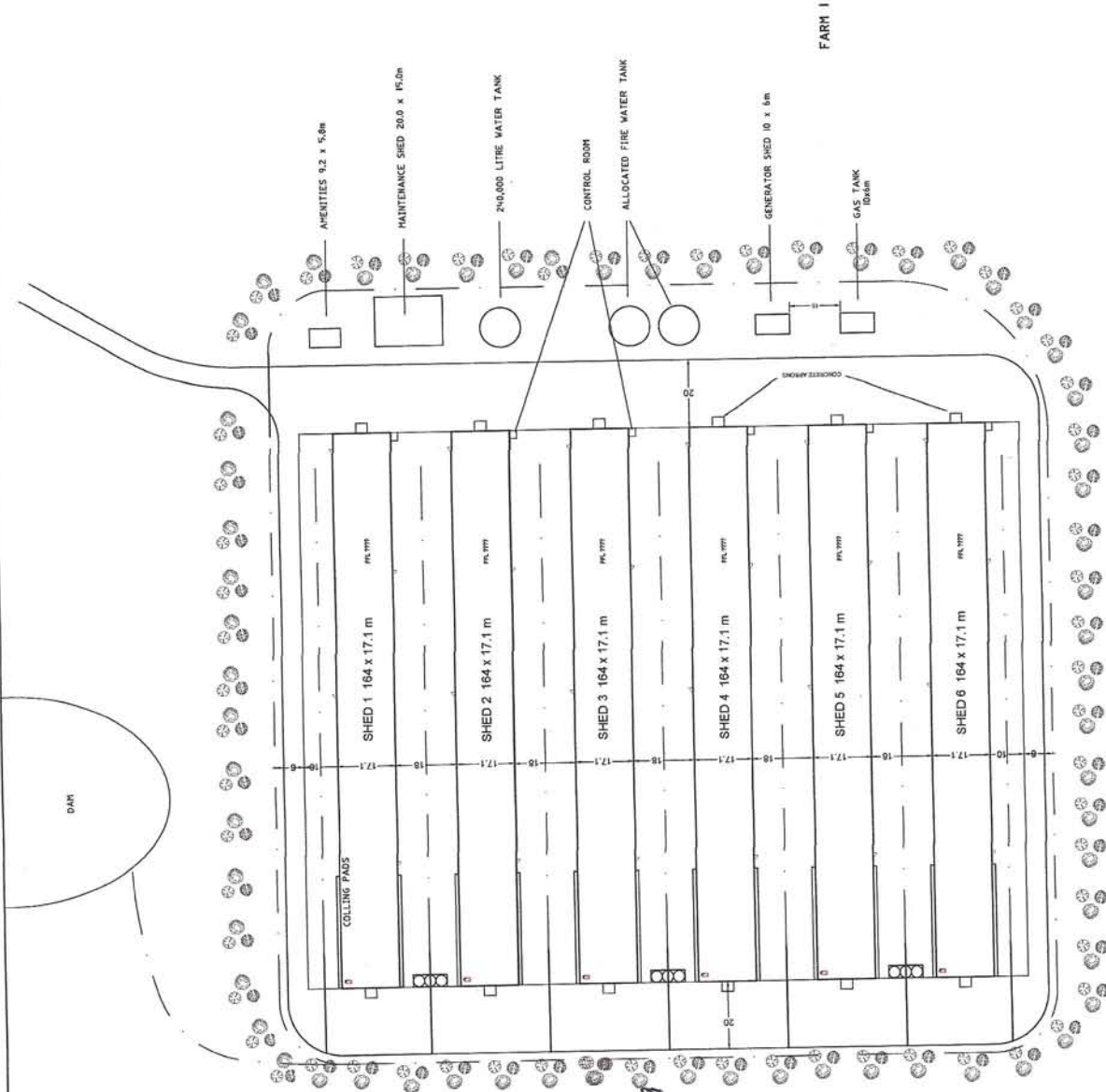
Acknowledgements: David Perry NRE & Mark Trengove Geelong Indigenous Nursery

May 1999

MAINTENANCE PLAN

- **Watering** seedlings 4-10 L/seedling every 2-3 weeks in the first summer after planting for to achieve good subsoil moisture. In hot windy weather water will be performed more often to avoid plant defoliation and to maintain subsoil moisture. Best watering times are late afternoon/evening or mornings. Watering is critical for seedling survival due to the risk of hot windy weather, exposed sites, hard setting clay soils and rock, especially near sheds in rocky areas.
- Weed control – Glyphosate at 1 metre diameter circle of spray around each tree guard especially shed area for first 6 months to enable best plant growth and to maximize available moisture for seedlings. Hand weed inside tree guard if needed.
- Rabbits and hares – tree guards will provide protection for first 6 months but rabbit control will also be applied if they damage or eat seedlings – local DPI/Landcare groups will be consulted for local knowledge and best methods for controlling rabbits and hares. No hares or rabbits have been sighted during multiple site visits.
- Tree guards and stakes will be replaced as required.
- Six monthly trees that have died will be replaced with new seedlings for 2 years.

ATTACHMENT A: TREE PLANTING MAP

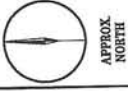


Four Rows
OF TREES AROUND
FARM PERIMETER

SCALE A1:1750
REF. NO. 10795
SHEET 2 OF 6

BROILER FARM DEVELOPMENT
FARM 1
290 BARINGHUP-HAVELOCK ROAD
BARINGHUP WEST

LAND MANAGEMENT SURVEYS (MELBOURNE)
BUSINESS PLANNERS
34 BALCOMBE ROAD MENTONE 3194
Ph: (03) 9553 0688 Fax: (03) 9553 5858
DESIGNED: B.A.M. DRAWN: J.C. APPROVED:
CHECKED: B.A.M. DATE: NOV/2012



LEVELS SHOWN ARE TO AN ARBITRARY DATUM
CONTOUR INTERVAL: 0.25m
DIMENSIONS SHOWN TAKEN FROM TITLE AND ARE NOT A RESULT
OF THIS SURVEY.

NO.	REVISION	BY	DATE

FILE NAME: 10795BROILERS_BK-049