

ENTERED ON GIS

Name: System Six Update Programme – Flora Survey Information
Date: 03/05/2006
Capture Author: Thomas Leong / Ian Steward

Comments:

Polygon

Created to match documented study area with high acceptable level of accuracy

Accuracy Levels:

- High = Document contained visual and or described spatial references easily copied, resulting in little or no polygon boundary errors
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- Low = Document contained little or no visual and or described spatial references, resulting in polygon boundary errors

Attributes

Report Info – author unclear/not listed, entered as unknown

Custodial/Contact – Captured without problems

Content – Captured without problems



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Mr Graeme Sunderland
Landcorp
'Joondalup House'
8 Davidson Terrace
JOONDALUP WA 6027

Your Ref

Our Ref

Enquiries

67/91

N Thorning

Dear Mr Sunderland

SYSTEM SIX UPDATE PROGRAMME - FLORA SURVEY INFORMATION

Thank you for providing permission for our botanical team to survey the bushland on your property. As arranged between yourself and Miss Natalie Thorning of this Department, the bushland on Lot 4 Location 41 Australind was visited on 19 October 1995.

The botanical survey provides us with information on the natural plant communities found in the area, and their condition. This information is needed to assist the Department of Environmental Protection in its programme to update the conservation recommendations for System 6 and the coastal plain portion of System 1. The main objective of the programme is to ensure that the proposed conservation estate is representative of the ecological communities extant in the region.

As part of this programme the Department has advertised for the public to submit areas of bushland that they consider to be of regional significance. Our botanical team is surveying these submitted areas as well as those it considers may be important based on other factors such as their location and soil type etc. The botanical survey provides us with information on the natural plant communities found in the area, and their condition. Please note that the area is one of many sites that we have surveyed. The fact that we visited and surveyed the site does not indicate that it will necessarily be included in the updated System Six Recommendations.

The update programme has employed the botanical survey methodology used in Gibson et al. (1994), 'A Floristic Survey of the Southern Swan Coastal Plain', to provide the main information base upon which to review the adequacy of the existing System recommendations and to assess other bushland areas.

One survey site was located on the property and wooden survey pegs were left in each corner of the 10 metres by 10 metres square survey site. We may wish to revisit this site at a later date, if so, we will contact you prior to our visit. A general description of the vegetation and an assessment of its condition was also completed.

The information collected during the visits will be used to assess the relative conservation values of the bushland areas. The final selections for inclusion in the updated System Six Recommendations will be the best possible examples of bushland containing plant community types that are either unrepresented or poorly represented in the current and proposed conservation system.

If you are interested in the information we have collected, the location of the survey sites or any other additional information on the System Six Update Programme please don't hesitate to contact Miss Natalie Thorning (222 7051) or Mr Kevin McAlpine (222 7055).

Once again, thank you very much for your support for this programme.

Yours sincerely

A handwritten signature in black ink, appearing to be 'CS', written in a cursive style.

Colin Sanders
DIRECTOR
POLICY AND STRATEGIC STUDIES

14 November 1995

SYSTEM 6 BUSHLAND SUBMISSION FORM FOR CONSIDERATION IN THE UPDATE PROGRAMME

If you wish to submit more than one area for consideration in the System 6 update, please use a separate form for each area.

Please fill in each section giving as much information as possible.

LOCATION, OWNERSHIP AND ZONING OF THE AREA

1. Location

Please give as accurate and detailed a description as possible of the site location

Please include either a hand drawn or copied map showing the area of the area

a) Bordering Roads: Old Coast Rd.

b) Nearest Corner: Laura Ave + Old Coast Rd.

c) Lot Number: 4 Street Number:

d) Town/Suburb/Location: Australind

e) Local Council: Harvey Shire Council

f) Site Name (if any): Location 31 (Lot 4)

g) Approximate size of the area (ha): 54.4 ha

h) Please locate the area on a map and give us map references if possible:

Wellington 2000 BG 30 Maps 0535, 0536, 0635, 0636
(Valuer Generals Maps)

i) Map: Streetsmart / UBD / Other:

THE LINK 94-95 (Bunbury Region)

j) Map no.: 2 (page 153), (see attachment).

k) Grid Ref: A-F, 12-15

l) Please give any other information that may help us to find the location:

Adjacent to Bunbury Golf Course, bordered by Collie River and Marangarel Reserve, and Reschenault Estuary.

m) Are you aware of any development proposals that are likely to affect the area?

Nil

NOTE: Areas that have already been given development APPROVAL should not be nominated

Please fill out those questions that you can answer

2. Who owns the area? (If owned by the person/s making the nomination please indicate) Landcorp.

3. If you own the area, and may be interested in participating in conservation on private land initiatives please indicate (and leave your name and address at the end of this submission form)

4. What is the area zoned? (please indicate whether zoning is Town Planning Scheme or Metropolitan Region Scheme) General Farming (T.P.S.)
Recreation (T.P.S.)

CAN YOU TELL US A LITTLE ABOUT THE PHYSICAL CHARACTERISTICS OF THE AREA

5. Why do you consider this area important? (Refer to Guiding Issues paper)
It is the largest remaining bushland area providing linkages to existing System 6 Reserves and other remnant bushland in Australia.

6. What is/are the soil type/s and colours ?
Type: Sand/Clay/Gravel/Loam/Silt
Colour: White/Grey/Brown/Orange/Yellow/Red/Black

7. Does the area have any special features such as unusual landforms / landscapes that still retain their natural vegetation? Yes/No
If yes, what are they?

8. Is the area a wetland or does it include a wetland?

- If yes, what kind of a wetlands is it?
- a) lake
 - b) river (borders Collie River).
 - c) stream
 - d) swamp (Marangarel Reserve Adjacent).
 - e) estuary (bordered by Leschenault Estuary).
 - f) seasonally wet
 - g) other

9. What percentage of the wetland is open water in summer?

CAN YOU TELL US A LITTLE ABOUT THE VEGETATION /FAUNA ON THE NOMINATED AREA.

10. What percentage of the area is indigenous vegetation? *80 - 100%*.....

11. If the area includes regions cleared of native bushland please indicate reasons for the inclusion. *In area degraded for industrial purposes is in the centre of the bushland, with strong potential for regeneration. (Regeneration is in progress).*

12. Has any previous flora or fauna survey work been done on the area? *Nil....., however over 36 different species have been noted by local artists.*
If yes, please give details of the work

13. How would you rate the condition of the native bushland? (see attached table)

a) pristine

b) excellent ✓

c) very good ✓

d) good

e) degraded

f) completely degraded

g) don't know

} variety of conditions throughout

14. Please indicate the disturbances affecting the area and where appropriate the percentage of the area disturbed.

a) Partial clearing

b) fragmentation

c) Selective removal of species: timber cutting, wildflower picking, mowing dieback and other plant diseases

d) Fire regime, including intensity, season and frequency

e) 'Enrichment plantings' that is plantings of species not found in that community

f) Weed invasion *minimal*

g) Animal impact: horses, foxes, rabbits, cats, dogs, camels, goats etc

h) Soil movement, both removal and dumping

i) Changes in water regimes; flooding, drainage and watering

j) Salinity

k) Fertiliser drift and along waterways nutrient influx

l) Mining, including that for road works

- m) Grazing: stock, overgrazing by feral or native mammals
- n) Proliferation of tracks, fire breaks and walk trails - some access tracks and firebreaks.
- o) Off-road vehicle use
- p) Use as service corridors by the SEC, Main Roads, Water Authority.

(Source: B Keighery. Bushland Plant Survey, September 1994)

15. Does the area contain any plant species of special interest that you know of? (eg. declared rare flora, priority taxa, outlier populations)

As part of the overcleared Swan Coastal plain, the property Do you know what they are? lies within the range of several rare and priority species and has the potential to have populations of them.

16. Do you know of any native animals that use the area? Kangaroos, black faced wallaby, diverse variety of parrot, possums, reptiles, amphibians. Can you list those you know of? (birds, mammals, reptiles, amphibians etc)

insects, Nankeen Night Heron, variety of wading birds.....

17. Is the area used by any native animals of special interest? (eg. endangered species, large/important populations)..... unknown.....

If yes, please name them and indicate source of information

.....

CAN YOU TELL US A LITTLE ABOUT THE SURROUNDING AREA

18. Are there any bushland areas (including wetlands) near to this area? Yes.....

If yes, how close are they? Collic River, System 6 foreshore floodplain reserves border eastern boundary, and the Leschenault Estuary borders the western boundary. Some remnant bushland also exists in the adjacent Bunbury Golf Club. Are they already conservation reserves?

The System 6 reserves are for conservation, and Marangarel. What is their approximate size? Reserve is an A Class Reserve..

19. Does the submitted area link other bushland areas? Yes, to existing remnant bushland contained in Collic River foreshore areas, and to the Marangarel Reserve.

Please attach any additional information about the area which may be of use when assessing it.

In addition to the information already presented in this submission, we felt it important to add the following points for additional consideration;

1. At present there is no significant bushland protected within System 6 conservation areas. The land covered by current System 6 consists of floodplain, river and estuary bank reserves. The inclusion of this area at Location 31 would enable the Australind community to retain an important area of Urban Bushland for use in education, relaxation, recreation, and most importantly, conservation of indigenous flora and fauna.

2. This bushland at Location 31 is the only remaining natural corridor between the Leschenault Estuary and the Collic River System.

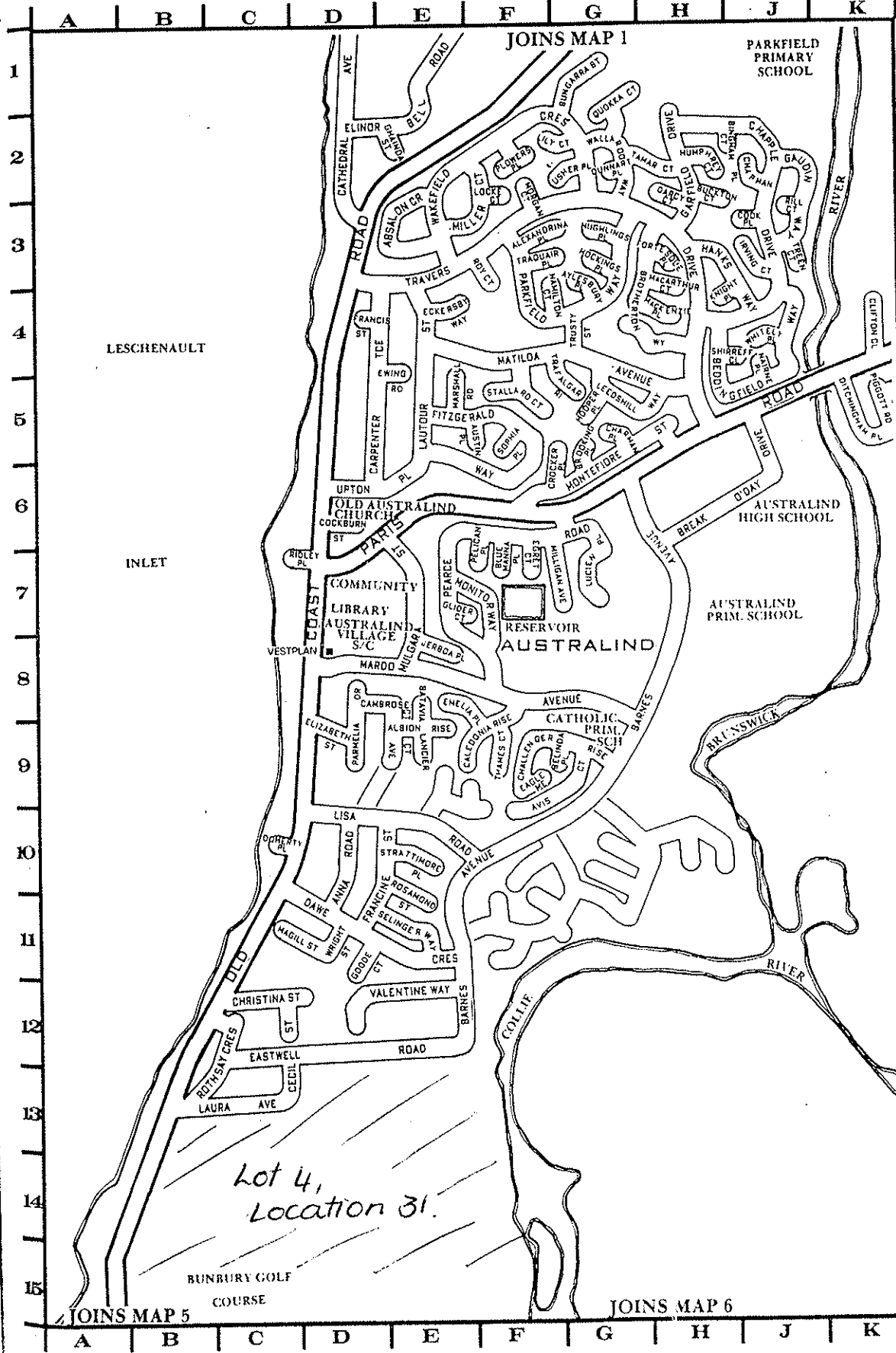
Thankyou for this opportunity to try to preserve some of Australinds natural heritage. This issue is extremely important to our local community.

Yours sincerely

Kylie Truss

Convenor - Australind Bushland Council.

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MAP 2 PAGE 15

J K

A B C D E F G H J K

Department of Environmental Protection System 6 Update: Site Based Flora List for Lot 4 Location 31 Australind (Subm no. 182)
(59 taxa, colriv01, B.J. Keighery, 11/6/96)

Anthericaceae

Caesia micrantha
Sowerbaea laxiflora
Thysanotus arenarius
Thysanotus sp. manglesianus/patersonii scps

Apiaceae

Homalosciadium homalocarpum
Trachymene pilosa

Asteraceae

- * Arctotheca calendula
- * Hypochaeris glabra
- * Sonchus oleraceus
- * Ursinia anthemoides

Caryophyllaceae

- * Petrorhagia velutina
- * Silene gallica

Colchicaceae

Burchardia congesta

Cyperaceae

Isolepis marginata
Lepidosperma angustatum
Lepidosperma squamatum

Dasyogonaceae

Dasyogon bromeliifolius
Lomandra caespitosa
Lomandra hermaphrodita

Dilleniaceae

Hibbertia hypericoides
Hibbertia racemosa

Epacridaceae

Leucopogon propinquus

Euphorbiaceae

Poranthera microphylla

Haemodoraceae

Conostylis aculeata
Phlebocarya ciliata

Iridaceae

* Romulea rosea

Lamiaceae

Hemiandra pungens

Mimosaceae

Acacia huegelii

Myrtaceae

Agonis flexuosa
Eucalyptus marginata

Orchidaceae

Caladenia flava
Lyperanthus nigricans

Oxalidaceae

Oxalis perennans

Papilionaceae

Bossiaea eriocarpa
Gompholobium polymorphum
Gompholobium tomentosum
Jacksonia furcellata
Jacksonia sp. Busselton (G.J. Keighery 4482) PN
Kennedia prostrata
* Trifolium campestre

Poaceae

* Avena fatua
* Briza maxima
Danthonia occidentalis
Danthonia pilosa
Dichelachne crinita
* Ehrharta calycina
* Ehrharta longiflora

Stipa flavescens
* *Vulpia bromoides*

Proteaceae

Banksia attenuata
Banksia grandis
Persoonia saccata
Petrophile linearis
Synaphea spinulosa

Restionaceae

Lyginia barbata

Rubiaceae

Opercularia hispidula

Sterculiaceae

Lasiopetalum membranaceum

Stylidiaceae

Stylidium schoenoides

Xanthorrhoeaceae

Xanthorrhoea brunonis

LIFE FORM/HEIGHT CLASS	CANOPY COVER			
	DENSE 70-100%	MID-DENSE 30-70%	SPARSE 10-30%	VERY SPARSE 2-10%
Trees >30m Trees 15-30m Trees 5-15m Trees <5m	Dense Tall Forest Dense Forest Dense Low Forest A Dense Low Forest B	Tall Forest Forest Low Forest A Low Forest B	Tall Woodland Woodland Low Woodland A Low Woodland B	Open Tall Woodland Open Woodland Open Low Woodland A Open Low Woodland B
Mallee tree form Mallee shrub form	Dense Tree Mallee Dense Shrub Mallee	Tree Mallee Shrub Mallee	Open Tree Mallee Open Shrub Mallee	Very Open Tree Mallee Very Open Shrub Mallee
Shrubs >2m Shrubs 1.5-2.0m Shrubs 1.0-1.5m Shrubs 0.5-1.0m Shrubs 0.0-0.5m	Dense Thicket Dense Heath A Dense Heath B Dense Low Heath C Dense Low Heath D	Thicket Heath A Heath B Low Heath C Low Heath D	Scrub Low Scrub A Low Scrub B Dwarf Scrub C Dwarf Scrub D	Open Scrub Open Low Scrub A Open Low Scrub B Open Dwarf Scrub C Open Dwarf Scrub D
Mat plants Hummock Grass Bunch grass >0.5m Bunch grass <0.5m Herbaceous spp.	Dense Mat Plants Dense Hummock Grass Dense Tall Grass Dense Low Grass Dense Herbs	Mat Plants Mid-Dense Hummock Grass Tall Grass Low Grass Herbs	Open Mat Plants Hummock Grass Open Tall Grass Open Low Grass Open Herbs	Very Open Mat Plants Open Hummock Grass Very Open Tall Grass Very Open Low Grass Very Open Herbs
Sedges >0.5m Sedges <0.5m	Dense Tall Sedges Dense Low Sedges	Tall Sedges Low Sedges	Open Tall Sedges Open Low Sedges	Very Open Tall Sedges Very Open Low Sedges
Ferns Mosses, liverwort	Dense Ferns Dense Mosses	Ferns Mosses	Open Ferns Open Mosses	Very Open Ferns Very Open Mosses

Parking area on river toilets, grass, planted non-local (Mac pod) amongst local trees (Peppermints / Merric / Hooded Gum / Cas. obovata)

Roscherault Inlet Side
Scattered trees / Tall shrubs in exotics (Ehr. caly / Avena / Turnip / Lupinus) occ. Hibb. con.
Agon hex / Accl salig / Euc radis / Bank RA
jams Forest Euc radis plus various
'rust plantings'

ADJ block to N
Dry sess (Plains), Para top, Vim. juncea
VSP Cecil St / Laura Ave corner

Flora comments

Fauna comments Kangaroos (droppings)

Adjacent bushland

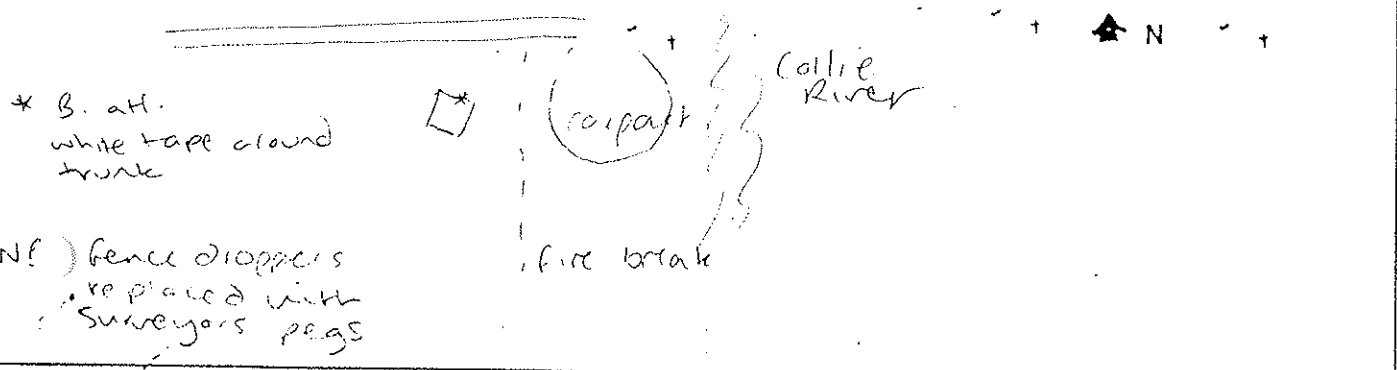
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA COLLIE RIVER, AUSTRALIA SITE NUMBER COLRIN 01
 DATE TRIP 19-10-95 RECORDERS STK, NCT
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

From 'Bushtand Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 12, Nedlands WA 6008.

LOCATION of the QUADRAT

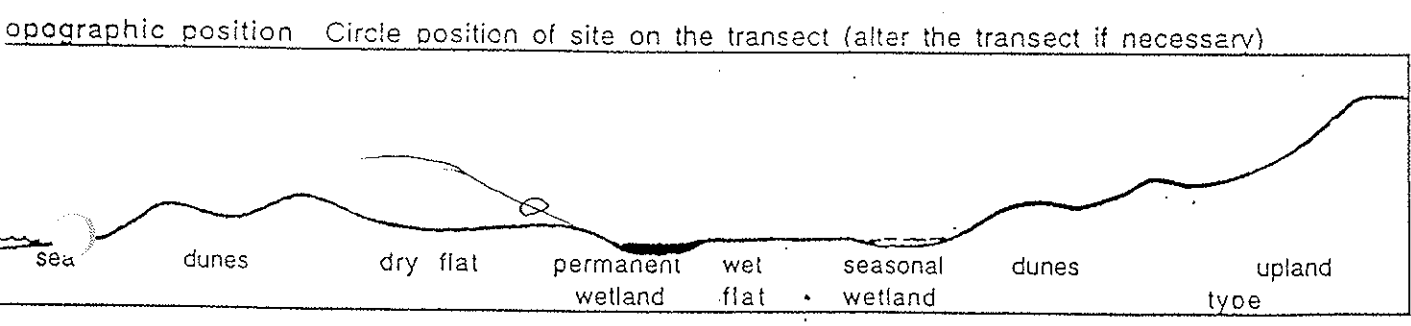
Field Map Draw a sketch of the location of the site below.



Road Location _____

Geographic Location Latitude 33° 17.569 S Longitude 115° 43.088 E Altitude _____
 Reference Map EPE ± 38 m

Photograph _____ Photographer's Name NCT Photo No 16



SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE SE S SW W NW

Surface Soil type Sand Colour brown
 Exposed rock type _____ % surface _____

Sub-surface Soil type Sand Colour yellow
 Rock depth to rock _____

Drainage wet mod poor depth water _____ cm Wet all year winter/spring

litter	<u>10-30</u> % cover	Bare Ground	<u>2-10</u> % cover
Depth	<u>up to 2</u> cm		














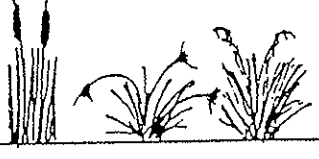
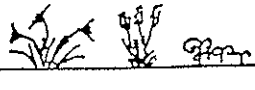
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA Inc., PO Box 64 Nedlands WA 6008.

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

Cover Class 2-10% 10-30% 30 - 70% over 70%

TREES			MALLEES		
over 30m	15 - 30m	5-15m under 5m	over 8m	under 8m	
		 Low Woodland A			30m 10m
COVER CLASS (%)		10-30			
DOMINANT SPECIES		Bark art.			
SHRUBS			SHRUBS		
over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m	
 	 open low scrub A		 open dwarf scrub C		2m 1m
COVER CLASS (%)	2-10		2-10		
DOMINANT SPECIES	Jacks. Curr		Jacks sp yell. Hibb hyp?		
GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m	
 open Grasses	 Very open Herbs			 Flora	1m
COVER CLASS (%)	10-30	2-10			
DOMINANT SPECIES	Briza naya	Conosty acul. Phleb cul			

4. VEGETATION CONDITION

1	'PRISTINE'	COMMENTS
2	EXCELLENT	
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

BUSHLAND AREA Australind Site 1 West SITES YES/NO

DATE 12/2/00 RECORDERS RWH

Observations edge transects

Geographic Location	Latitude	S Longitude	E
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Photograph	Photographer's Name <u>RWH</u>	Photo No <u>1+2 50m from Old Coast Rd</u> <u>3+4 100m from Old Coast Rd</u> <u>5+6 Old Coast Rd from page</u>
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Transect of landscape units (draw in transect incorporating features listed and any other relevant unit)

dunes
dry/wet flats
sumplands
uplands
type Almost flat open grassed sands

Soil - surface	sub -soil
Exposed rock type	% area

FLORA/VEGETATION (list dominant and significant plants below, see over for vege association descriptions)

Eucalypts	<u>E. calophylla</u>	<i>E. wandoo</i>	<i>E. marginata</i>	<i>E. todtiana</i>	<i>E. rudis</i>
	<i>E. decipiens</i>	<i>E. drummondii</i>	<i>E. haematoxylon</i>	<i>E. lanepolei</i>	<i>E. gomphocephala</i>
	<i>E. accedens</i>	<i>E. patens</i>	<i>E. laeliae</i>	<i>E. megacarpa</i>	
Sheoaks	<i>Allocasuarina fraserana</i>		<i>Casuarina obesa</i>		
Banksia	<u>B. attenuata</u>	<i>B. menziesii</i>	<i>B. prionotes</i>	<i>B. illicifolia</i>	<u>B. grandis</u> <i>B. littoralis</i>
Melaleuca	<i>M. preissii</i>	<i>M. raphiophylla</i>	<i>M. lanceolata</i>	<i>M. cuticularis</i>	
Others	<i>Callitris preissii</i>				
Mallees	Eucalypts	<i>E. argutifolia</i>	<i>E. petrensis</i>	<i>E. decurva</i>	<i>E. foecunda</i> <i>E. latens</i>

SIGNIFICANT SPECIES
Agonis flexilis, Acacia deliqua, Tetrarrhena Hamamelis
some planted Euc. sp not local

(see over for vegetation descriptions)

Vegetation Condition - Keighery 1994 (Trudgen 1993) (show range and indicate predominant class)

1 = 'Pristine' (Excellent)
2 = Excellent (Very Good)
3 = Very Good (Good)
4 = Good (Poor)
<u>5 = Degraded (Very Poor)</u> <u>with over 50% crown canopy disturbance</u>
6 = Completely Degraded

Specific aspects of disturbance

partial clearing	<u>✓ regenerating following previous clearing, likely</u>
weeds (list):	<u>grows down to creek boundary</u> <u>Very species poor</u>
selective removal of species:	timber cutting mowing fire <u>grazing</u> dieback %area
fire frequency:	
'enrichment plantings' (list)	<u>none</u>
animal impact:	horse foxes <u>rabbits</u> cats dogs goats pigs overgrazing by native mammals
soil movement:	mining <u>dumping</u> <u> rubbish dumping</u> roadworks
changes in water regimes:	flooding drainage watering nutrient influx
Tracks:	<u>Pumping to remove contaminated groundwater with attached</u> <u>fire breaks</u> walk trails <u>off road vehicle use</u> animal tracks
Service corridors:	SEC Main Roads <u>Water Authority</u> Telecom
Other	<u>reservoir</u>

mostly on tracks.

LIFE FORM/HEIGHT CLASS	CANOPY COVER			
	DENSE 70-100%	MID-DENSE 30-70%	SPARSE 10-30%	VERY SPARSE 2-10%
Trees >30m Trees 15-30m Trees 5-15m Trees <5m	Dense Tall Forest Dense Forest Dense Low Forest A Dense Low Forest B	Tall Forest Forest Low Forest A Low Forest B	Tall Woodland Woodland Low Woodland A Low Woodland B	Open Tall Woodland Open Woodland Open Low Woodland A Open Low Woodland B
Mallee tree form Mallee shrub form	Dense Tree Mallee Dense Shrub Mallee	Tree Mallee Shrub Mallee	Open Tree Mallee Open Shrub Mallee	Very Open Tree Mallee Very Open Shrub Mallee
Shrubs >2m Shrubs 1.5-2.0m Shrubs 1.0-1.5m Shrubs 0.5-1.0m Shrubs 0.0-0.5m	Dense Thicket Dense Heath A Dense Heath B Dense Low Heath C Dense Low Heath D	Thicket Heath A Heath B Low Heath C Low Heath D	Scrub Low Scrub A Low Scrub B Dwarf Scrub C Dwarf Scrub D	Open Scrub Open Low Scrub A Open Low Scrub B Open Dwarf Scrub C Open Dwarf Scrub D
Mat plants Hummock Grass Bunch grass >0.5m Bunch grass <0.5m Herbaceous spp.	Dense Mat Plants Dense Hummock Grass Dense Tall Grass Dense Low Grass Dense Herbs	Mat Plants Mid-Dense Hummock Grass Tall Grass Low Grass Herbs	Open Mat Plants Hummock Grass Open Tall Grass Open Low Grass Open Herbs	Very Open Mat Plants Open Hummock Grass Very Open Tall Grass Very Open Low Grass Very Open Herbs
Sedges >0.5m Sedges <0.5m	Dense Tall Sedges Dense Low Sedges	Tall Sedges Low Sedges	Open Tall Sedges Open Low Sedges	Very Open Tall Sedges Very Open Low Sedges
Ferns Mosses, Liverwort	Dense Ferns Dense Mosses	Ferns Mosses	Open Ferns Open Mosses	Very Open Ferns Very Open Mosses

VEGETATION (describe each unit of vegetation using dominants and life form/height class and canopy cover according to the Muir codes above)

Canopy *Agave* *h. low woodland* - forest with
B. grandis, *B. obtusifolia*, *Agave* *h. low woodland*

Fauna comments

Adjacent bushland (refer to aerial photograph)

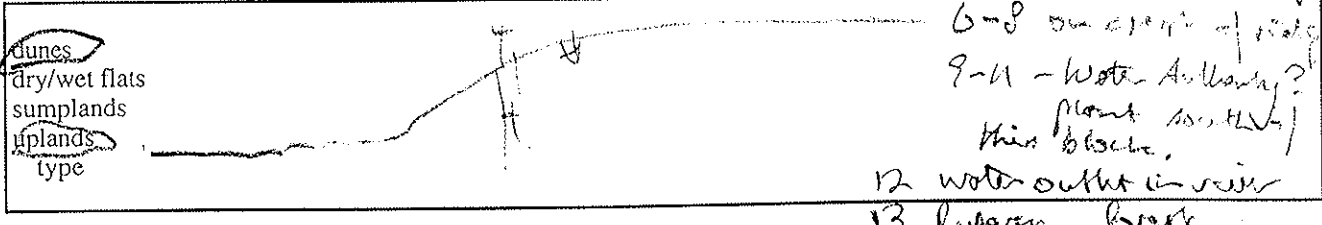
BUSHLAND AREA Antarctic East 2nd SITES YES/NO
 DATE 12/2/00 RECORDERS J.L.H.

Observations edge transects

Geographic Location Latitude S Longitude E
 Reference Map

Photograph Photographer's Name Photo No 3-5 50m west of Bushline

Transect of landscape units (draw in transect incorporating features listed and any other relevant unit) near high point



Soil - surface yellow sparrenod sub-soil
 Exposed rock type % area

FLORA/VEGETATION (list dominant and significant plants below, see over for vege association descriptions)

Eucalypts	<i>E. calophylla</i>	<i>E. wandoo</i>	<i>E. marginata</i>	<i>E. todtiana</i>	<i>E. rudis</i>
	<i>E. decipiens</i>	<i>E. drummondii</i>	<i>E. haematoxylon</i>	<i>E. lanepolei</i>	<i>E. gomphocephala</i>
	<i>E. accedens</i>	<i>E. patens</i>	<i>E. laeliae</i>	<i>E. megacarpa</i>	
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Melaleuca	<i>M. preissii</i>	<i>M. raphiophylla</i>	<i>M. lanceolata</i>		<i>M. cuticularis</i>
Others	<i>Callitris preissii</i> <i>Agonis flexuosa</i>				
Mallees	Eucalypts	<i>E. argutifolia</i>	<i>E. petrensis</i>	<i>E. decurva</i>	<i>E. foecunda</i> <i>E. latens</i>
SIGNIFICANT SPECIES					
<i>B. attenuata</i> <i>Agonis flexuosa</i>					
(see over for vegetation descriptions)					

Vegetation Condition - Keighery 1994 (Trudgen 1993) (show range and indicate predominant class)

- 1 = 'Pristine' (Excellent)
- 2 = Excellent (Very Good)
- 3 = Very Good (Good) — August forest test volume getting/over 1000?
- 4 = Good (Poor)
- 5 = Degraded (Very Poor)
- 6 = Completely Degraded

Specific aspects of disturbance

partial clearing

weeds (list): Briza maxima abundant

selective removal of species: timber cutting mowing fire grazing dieback %area

fire frequency:

'enrichment plantings' (list) —

animal impact: horse foxes rabbits cats dogs goats pigs overgrazing by native mammals

soil movement: mining dumping rubbish dumping roadworks

changes in water regimes: flooding drainage watering nutrient influx

Tracks: fire breaks walk trails off road vehicle use animal tracks

Service corridors: SBC Main Roads Water Authority. Telecom

Other

LIFE FORM/HEIGHT CLASS	CANOPY COVER			
	DENSE 70-100%	MID-DENSE 30-70%	SPARSE 10-30%	VERY SPARSE 2-10%
Trees >30m Trees 15-30m Trees 5-15m Trees <5m	Dense Tall Forest Dense Forest Dense Low Forest A Dense Low Forest B	Tall Forest Forest Low Forest A Low Forest B	Tall Woodland Woodland Low Woodland A Low Woodland B	Open Tall Woodland Open Woodland Open Low Woodland A Open Low Woodland B
Mallee tree form Mallee shrub form	Dense Tree Mallee Dense Shrub Mallee	Tree Mallee Shrub Mallee	Open Tree Mallee Open Shrub Mallee	Very Open Tree Mallee Very Open Shrub Mallee
Shrubs >2m Shrubs 1.5-2.0m Shrubs 1.0-1.5m Shrubs 0.5-1.0m Shrubs 0.0-0.5m	Dense Thicket Dense Heath A Dense Heath B Dense Low Heath C Dense Low Heath D	Thicket Heath A Heath B Low Heath C Low Heath D	Scrub Low Scrub A Low Scrub B Dwarf Scrub C Dwarf Scrub D	Open Scrub Open Low Scrub A Open Low Scrub B Open Dwarf Scrub C Open Dwarf Scrub D
Mat plants Hummock Grass Bunch grass >0.5m Bunch grass <0.5m Herbaceous spp.	Dense Mat Plants Dense Hummock Grass Dense Tall Grass Dense Low Grass Dense Herbs	Mat Plants Mid-Dense Hummock Grass Tall Grass Low Grass Herbs	Open Mat Plants Hummock Grass Open Tall Grass Open Low Grass Open Herbs	Very Open Mat Plants Open Hummock Grass Very Open Tall Grass Very Open Low Grass Very Open Herbs
Sedges >0.5m Sedges <0.5m	Dense Tall Sedges Dense Low Sedges	Tall Sedges Low Sedges	Open Tall Sedges Open Low Sedges	Very Open Tall Sedges Very Open Low Sedges
Ferns Mosses, Liverwort	Dense Ferns Dense Mosses	Ferns Mosses	Open Ferns Open Mosses	Very Open Ferns Very Open Mosses

VEGETATION (describe each unit of vegetation using dominants and life form/height class and canopy cover according to the Muir codes above)

to alternate A Mallee woodland with scattered
mallee shrubs.

Some old banksia ~~stems~~ + dead logs about to rot.

Woodland dominated by young regenerating banksia
+ again to the

Further in on west of hill ^{low} woodland / 12 m of alternate
with scattered A mallee.
Some evidence of timber cutting

Hummock grass throughout is disturbed with abundant *Bryonia*
grass and reduced sp. richness - no native *Trifolium* evident

Hedyotis corymbosa, *Dasylirion* ^{Trifolium} *canadense*, *Woodsia*

Thymelicum, *Lepidosperma* sp + other sedges. *Macroglossa* +

North of Dept. building / River spot woodland adjacent to the river
Woody Pear also in woodland east of power line to the river
this area in ~~the~~ ^{the} ~~same~~ ^{same} ~~area~~ ^{area} ~~as~~ ^{as} ~~the~~ ^{the} ~~river~~ ^{river} ~~bank~~ ^{bank} ~~is~~ ^{is} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~same~~ ^{same} ~~area~~ ^{area} ~~as~~ ^{as} ~~the~~ ^{the} ~~river~~ ^{river} ~~bank~~ ^{bank} ~~is~~ ^{is} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~same~~ ^{same} ~~area~~ ^{area} ~~as~~ ^{as} ~~the~~ ^{the} ~~river~~ ^{river} ~~bank~~ ^{bank} ~~is~~ ^{is} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~same~~ ^{same} ~~area~~ ^{area} ~~as~~ ^{as} ~~the~~ ^{the} ~~river~~ ^{river} ~~bank~~ ^{bank} ~~is~~ ^{is} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~same~~ ^{same} ~~area~~ ^{area} ~~as~~ ^{as} ~~the~~ ^{the} ~~river~~ ^{river} ~~bank~~ ^{bank} ~~is~~ ^{is} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~same~~ ^{same} ~~area~~ ^{area} ~~as~~ ^{as} ~~the~~ ^{the} ~~river~~ ^{river} ~~bank~~ ^{bank} ~~is~~ ^{is} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~same~~ ^{same} ~~area~~ ^{area} ~~as~~ ^{as} ~~the~~ ^{the} ~~river~~ ^{river} ~~bank~~ ^{bank} ~~is~~ ^{is} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~same~~ ^{same} 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Site Tracks. (Budget on file).

Site Description - Data sheets

Site will be same as veg in plot
even if off the site Est River

Community 25 Subsum 182 old wood
Red (Blending dominians
in Brown Run. (Box) (Pepitza)
32 File 2 Card.

F. B. N. (Nick) HODGES BCom, MBA, ASA

Principal

also Landcorp. Enter 428

24 Porlock Way
Karrinyup WA 6018

9351 3705
Tel. (09) 341 4475
Fax. (09) 386 7197



Telephone: (08) 9482 7499

Facsimile: (08) 9481 0861

www.landcorp.com.au

Email: landcorp@landcorp.com.au

FACSIMILE HEADER

To: Gary Whisson
Company: Dept of Environmental Protection
Phone:
Fax: 9485 1187

From: Nick Hodges
File No.:
Phone: 9482 7428
Fax: 9481 3315
Email:

Date: 08/12/99
Pages including this cover page: 2

Disclaimer: This facsimile is confidential. If you are not the intended recipient, you must not disclose or use the information contained in it. If you have received this facsimile in error, please advise us by telephone and dispose of the document.

Comments:

Pt Loc 31 Old Coast Rd, Australind

Gary : Confirming our phone discussion, attached is a copy of the C/T for the above LandCorp land. Lot 600 (highest elevation on the land) was recently sold to the Water Corporation for a high level water tank site.

I look forward to our discussion on Monday 13th at 9.30 am.

*Need site visit + report back to Landcorp
by end January ~~1999~~ 2000 on values + construction needs.
(Check if any plots from Gibbon et al.)*

Application G542903
Volume 1637 Folio 691

WESTERN



AUSTRALIA

REGISTER BOOK
VOL. 2110 FOL. 466

CERTIFICATE OF TITLE

UNDER THE "TRANSFER OF LAND ACT, 1893" AS AMENDED.

I certify that the person described in the First Schedule hereto is the registered proprietor of the undermentioned estate in the undermentioned land subject to the easements and encumbrances shown in the Second Schedule hereto.

Dated 30th July, 1997

John Platt
REGISTRAR OF TITLES

ESTATE AND LAND REFERRED TO

Estate in fee simple in portion of Leschenault Location 31, delineated on the map in the Third Schedule hereto.

FIRST SCHEDULE (continued overleaf)

Western Australian Land Authority of 8 Davidson Terrace, Joondalup.

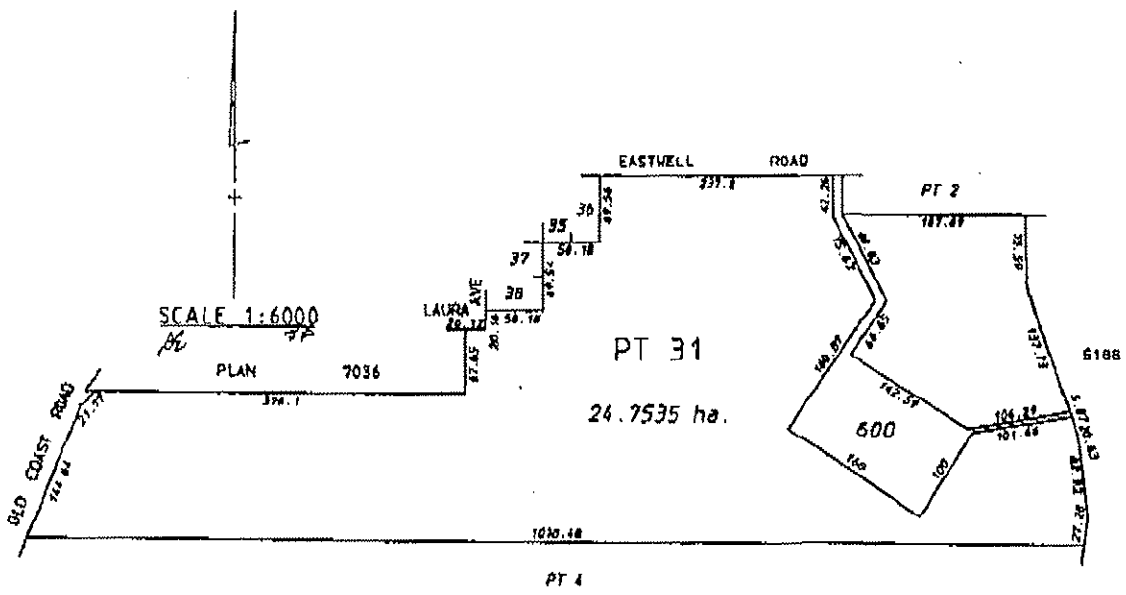
SECOND SCHEDULE (continued overleaf)

NIL

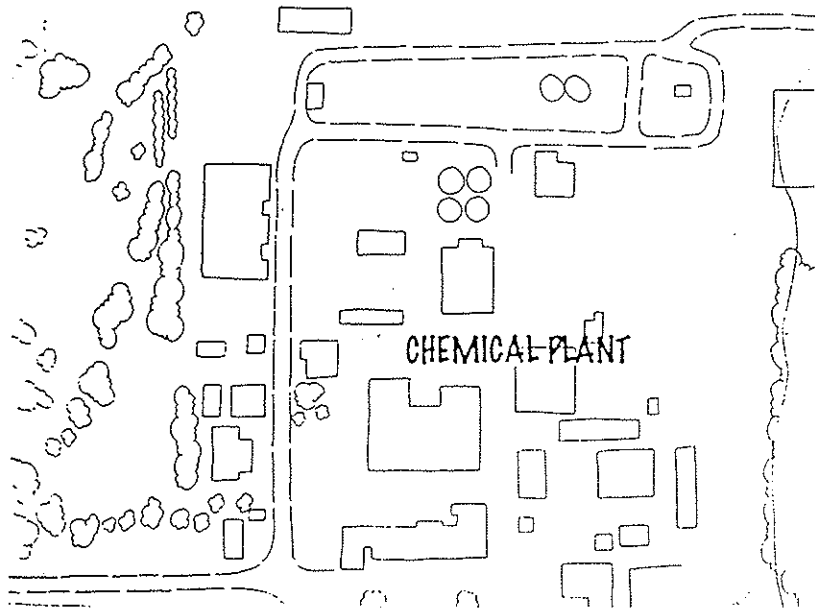
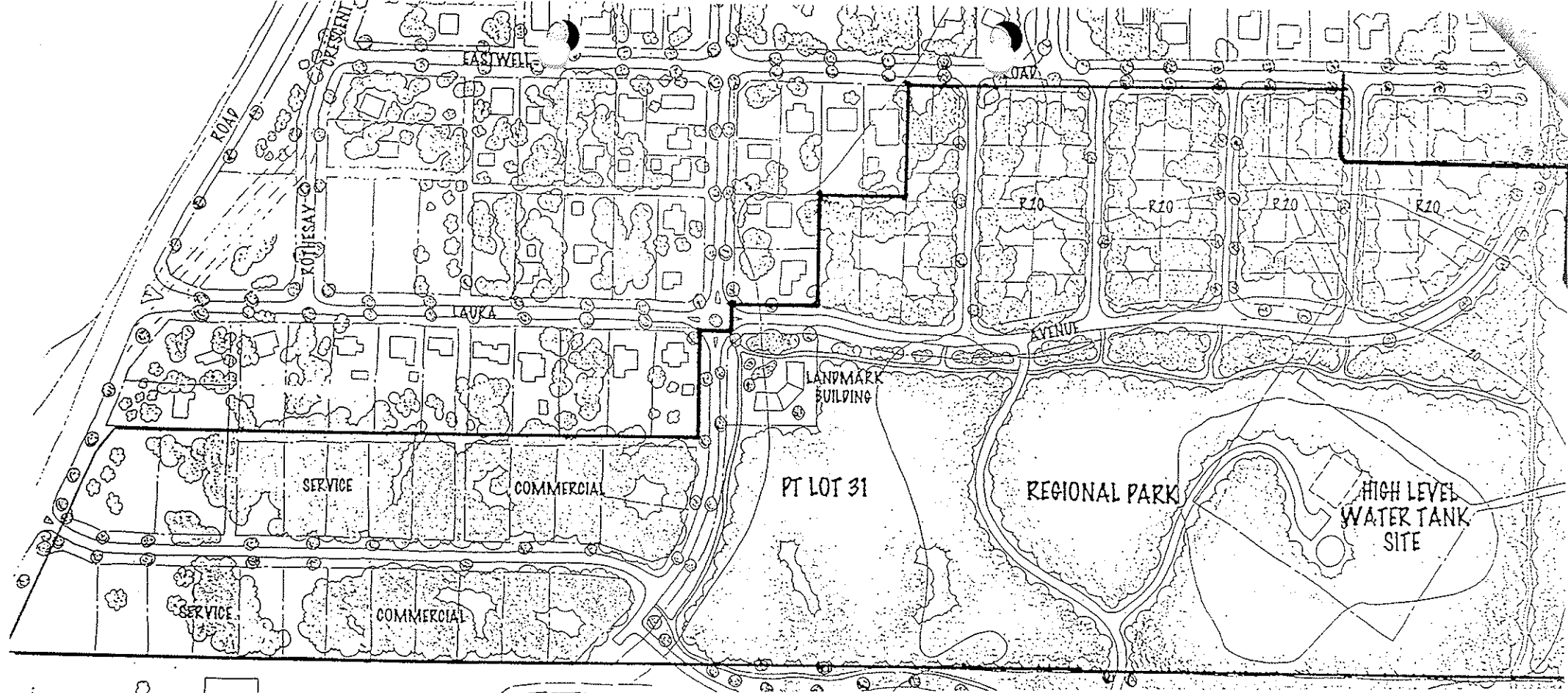
THIRD SCHEDULE

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

Page: (of 2 pages)
VOL 2110 FOL 466



NOTE: ENTRIES MAY BE AFFECTED BY SUBSEQUENT ENDORSEMENTS.





Wots
freedom