1701 1/05D 18/011

CP36157/5/92-500

EPA 024

ENVIRONMENTAL PROTECTION AUTHORITY

File Number

CT6/C50/1 Vol 1

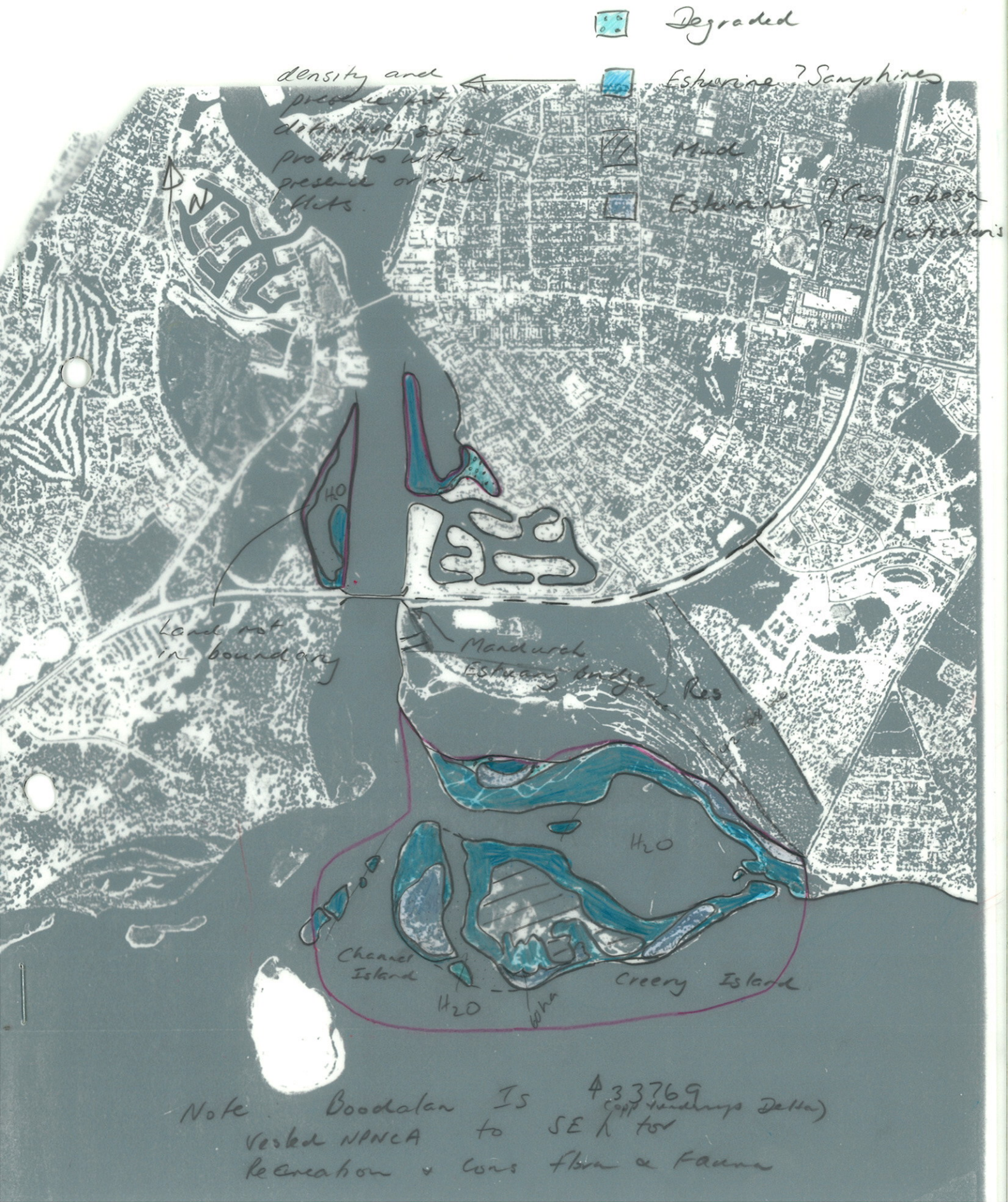
File Title

PEEL INLET - BIOLOGICAL DATA

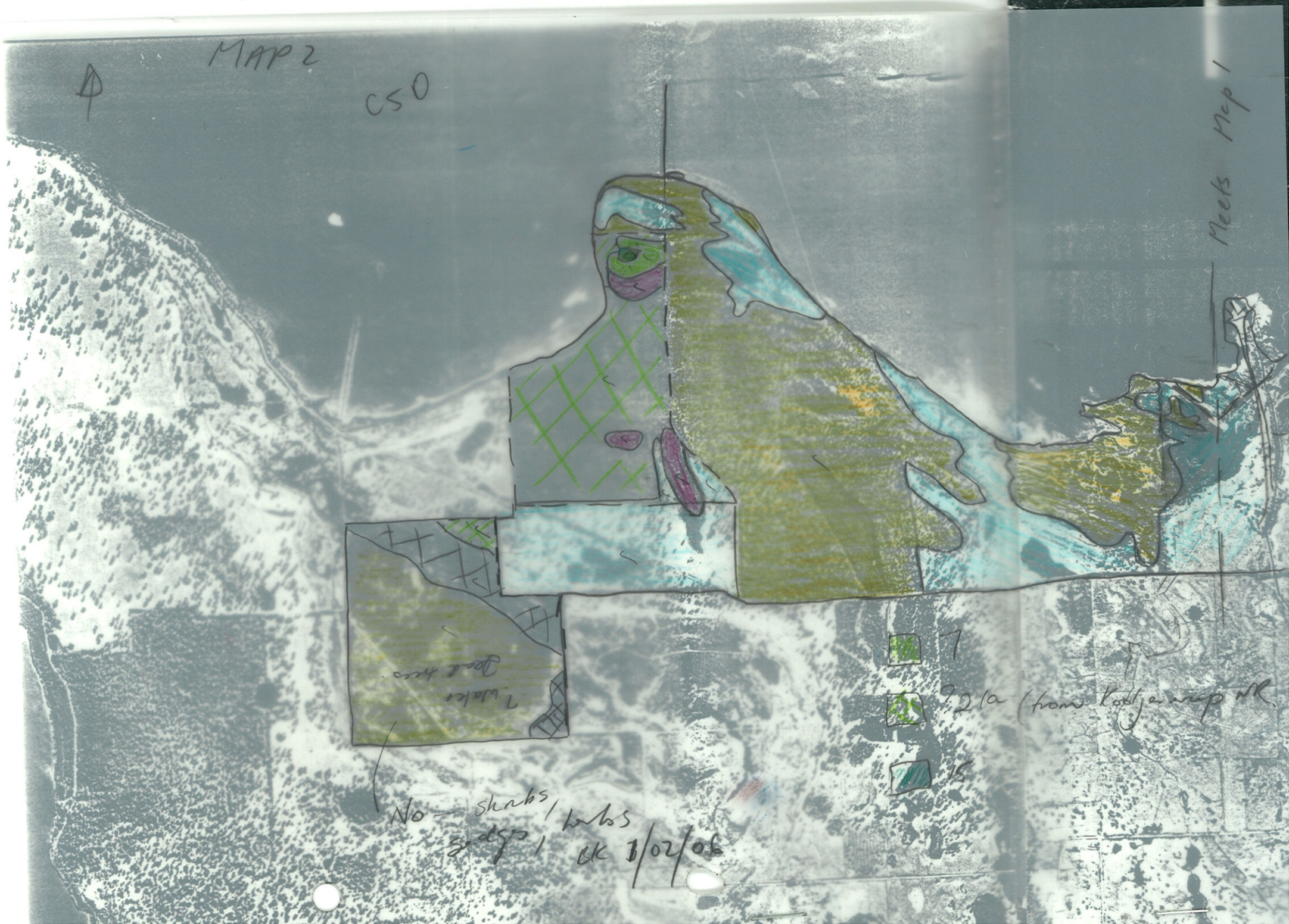
Volume created: 14/3/95

Relevant Files

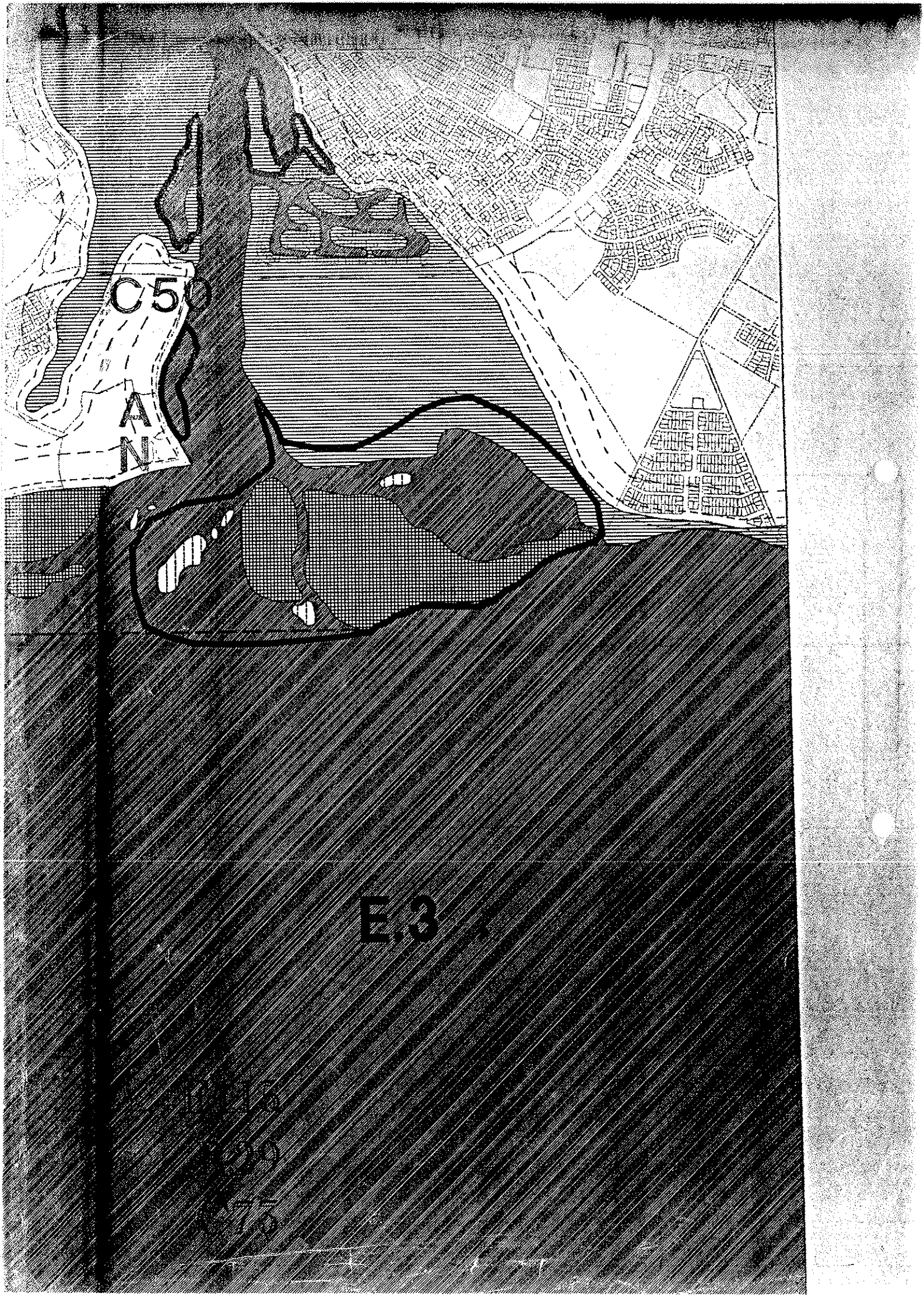
Folio	Date Referred	Officer	Initials	Folio	Date Referred	Officer	Initials

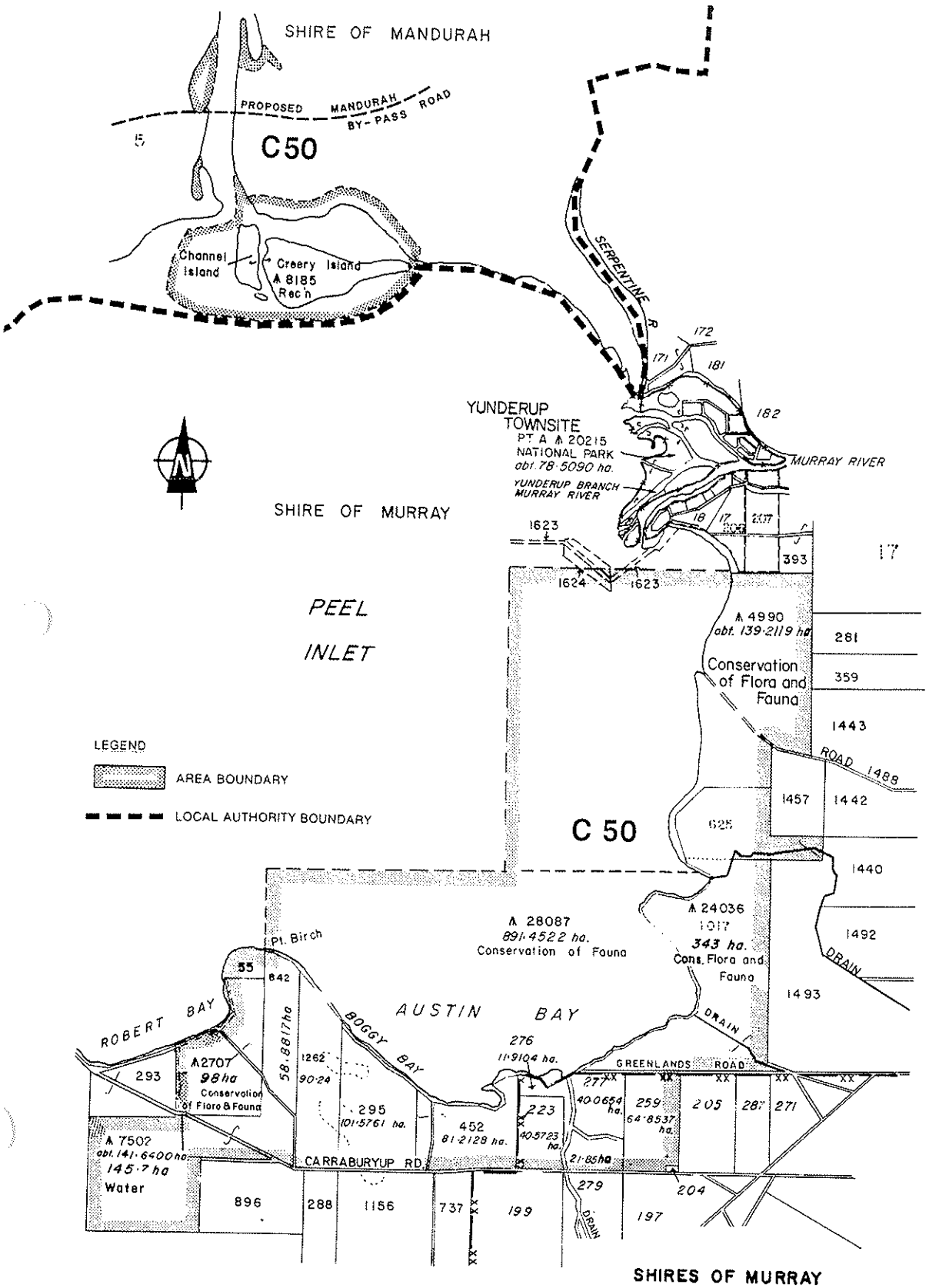


Note Boodalan Is 43769 (opp Dundonga Delta)
Vested NPNCA to SE for
Recreation . Cons flora & Fauna


MAP 2
CS 0
Meets Map 1
7 water deep here
7
9.2 (from Kabja map NR
15
No shrubs / bushes
Sedge / BK 3/02/06

Meets Map 1


C 50
A
N
E,3



LANDS DEPARTMENT PUBLIC PLAN No.
380 A/40 & 380 D/40
DCE Ref. No H4(1,2,3 & 4)

Figure 37

C50

Journal of the Royal Society of Western Australia, 73 (1), 1990, 9-21

The coastal landforms and peripheral wetlands of the Peel-Harvey estuarine system

C A Semeniuk[1] & V Semeniuk[1]

21 Glenmere Road, Warwick, WA 6024

Manuscript received November 1988; accepted August 1989

Abstract

Numerous, varied physical (hydrodynamic, sedimentologic and geomorphic) processes interact to determine the type, location, configuration, extent and evolution of the shore and the peripheral wetlands of the Peel-Harvey system. Twelve types of shore are identified in the estuarine system: tidal shoals, active tidal delta, stranded channel shoal complex, relict tidal delta, stranded estuarine embayment, spit-lagoon complexes, beachridge complexes, marginal platforms, erosional sandy shore, limestone cliff—pocket beach shore, lobate fluvial delta complex, and elongate fluvial delta complex. Ten of these shore types wholly or partly contain wetlands.

Introduction

The Peel-Harvey estuarine system has been studied om physical, chemical, biological and geological view-oints, as summarised by Hodgkin *et al* (1980). This stuarine system is now regarded to be of undoubted gional to national significance because of its natural story features, the wealth of avifauna that utilize the ea, and the case study of eutrophication that it presents. gnificantly, also, large tracts of estuarine shores have en reserved for flora and fauna in recognition of the role foreshores in fauna conservation.

Most of the work on the Peel-Harvey estuarine system date has concentrated on subdivision of the sublittoral nc instance, Brown *et al* (1980) subdivide the system it. mal geographic nomenclature) into components basins, shelves, sills and deltas. However, the shore pes of the estuarine system, encompassing the supralit-ral and littoral zones, to date have not been extensively scribed and classified, particularly from the point of ew of development of peripheral wetlands. The objec-e of this paper is to provide such a description: so that physical basis for development of peripheral wetland itats and their flora can be appreciated; so that presentative but as yet unsecured tracts of shoreline can highlighted for potential conservation; and so that the ormation may provide a framework for later more tailed studies. The approach adopted here in subdivid-a large estuary into various shore types can be applied other estuaries in Western Australia and elsewhere in stralia to provide a basis for differentiating types of ripheral wetlands, and for determining whether there dequate variety of shore and wetland types secured in serves.

Materials & methods

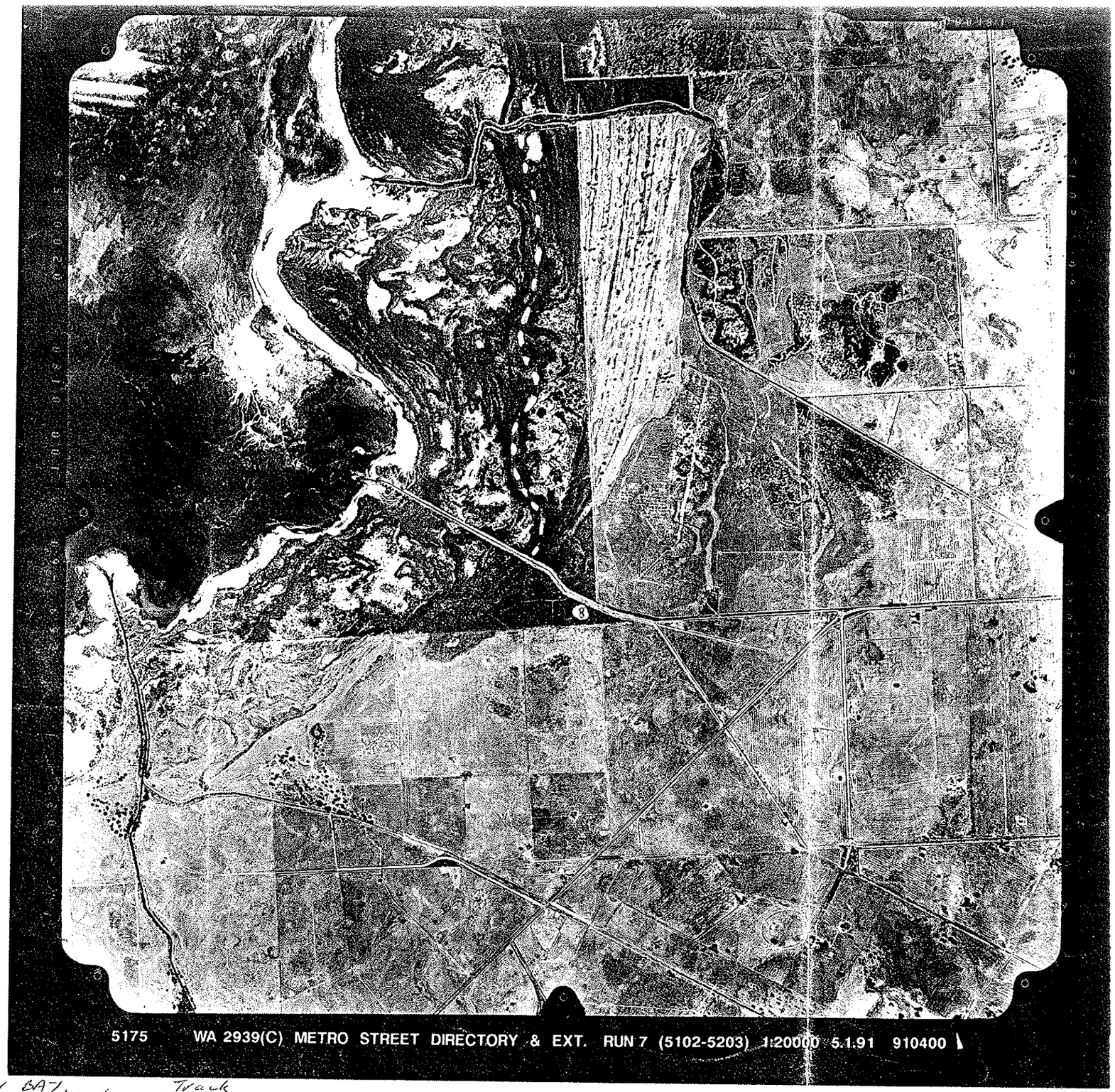
This study is based on ground surveys to map the terrain and vegetation units, transects through representative areas (Fig. 1), and interpretation of aerial photographs. The entire shoreline of the Peel-Harvey estuary was surveyed and classified either by boat or by land access. Detailed transect surveys involved: topographic levelling relative to AHD; soil sampling; augering and trenching to 1 to 4m to determine stratigraphy; groundwater sampling; and describing floristics and structure of the vegetation. Selected localities also were cored to 30m using a reverse air circulation corer (Fig. 1). The structure, fabric, texture and composition of soil and stratigraphic samples were described in the laboratory to define the lithologic suites.

Regio

The geomorp namics and sec system are descr paper. More d physical feature *al* (1980), Black & sedimentologica system are large

Geomorphic settin

The Peel-Harvey estuary is a compound type barred by a Pleistocene barrier, and essentially is three coalesced estuary systems; its connexion with the sea is mostly choked by an emergent (stranded) tidal delta and channel



Check

Melaleuca teretifolia / Lakelitha Swamp

29/10/93

Note the

P7 Swamp has

herbfield of

Poy Plain species

on drying out

VSP – Schoenus sp

– Agrostis avenacea

other species etc.

Recently (1992/93) burnt no site.

AUSTEN BAY 29/10/93 Note: Track (Road) in sector between two drains as shown with dashed line. Cuts across sandy ridges, occasional damp patch. Along roadside mainly V. minervia scrubbed shrubs over Actinostrobus / Regelia / Panicalyma Shrubland (2 1m). To W patches Eas. ob. (not visited) MO Mel. patches to E. Halorag is from track.

AUSTEN BAY

29/10/93 X1

Extensive area of mud flats around 1 & 2 and to South. Mostly Ceo. ob. patches and Mel. (various) Mangrove at (a)

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: [illegible]

QUADRAT No. ARAP 01 VEGETATION TYPE Mixed open woodland

DATE TRIP 4/10/93 BOTANIST MJ

VOLUNTEERS

DATE TRIP 29/10/93 BOTANIST EJK/MJL/NG

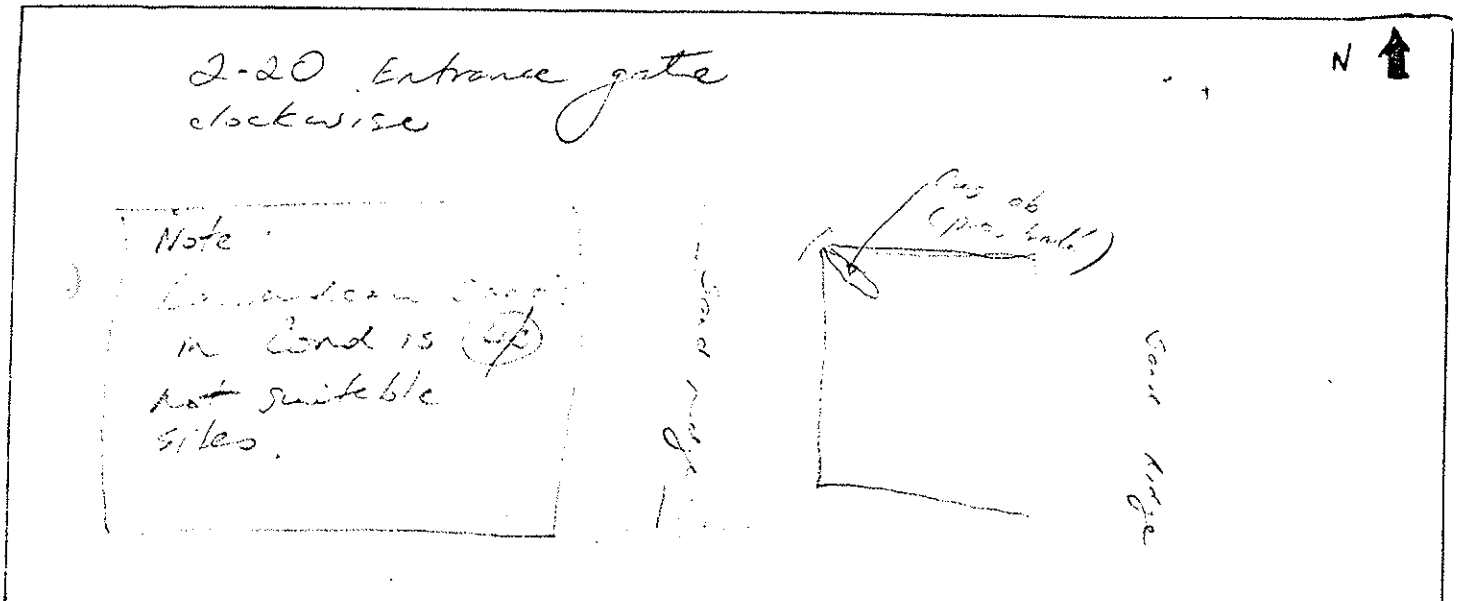
VOLUNTEERS

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

ADJ Mod rocky over Gabbro to over

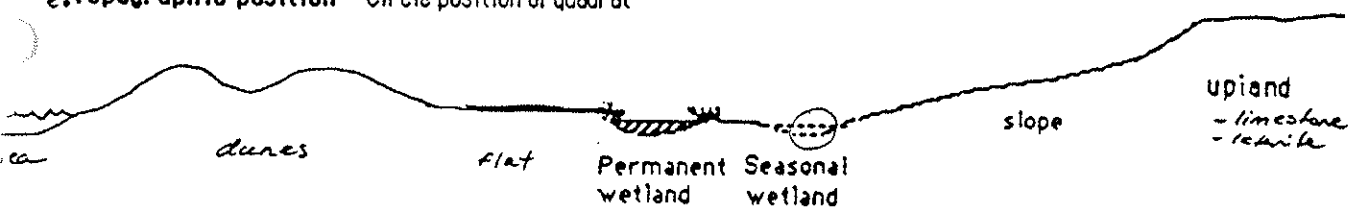
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
	32° 38' 14·6"	115° 43' 08·4"

d. **Photograph** Photographer's name NG Photo No 35 **Altitude** 5m ± 100m

e. **Topographic position** - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope (flat) gentle steep

Aspect N NE E SE S SW W NW

Surface soil dark brown clay (oditerous)
Wells & Resp = V3

Sub-surface soil ? clay
Environ Geol = Qhg

Drainage well mod (poor)

Wet All year (winter/spring)

Litter (% cover) 80% (dead algae)

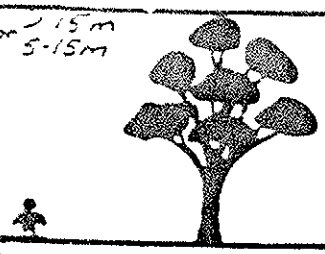
% Bare ground 0%

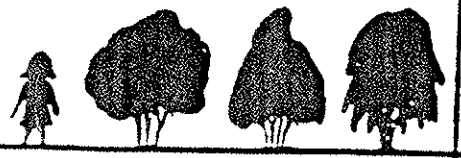
P.T.O.

3. VEGETATION STRUCTURE AND COVER Record appropriate cover class

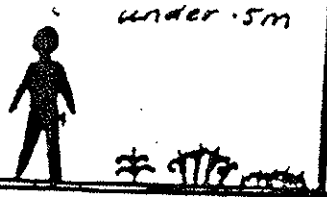
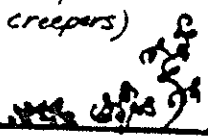
Cover Class - percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES	
	>15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 
COVER CLASS (%)	>15m 5-15m	10-20%		
Dominant Species		Mel aut Cas ob		

LIFE FORM	SHRUBS use the height classes indicated				SHRUBS
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m-.5m 	under 5m 
COVER CLASS (%)					50-70%
Dominant Species					Samphires

Height (metres) 3m 2m 1m

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES	
	under .5m 	under .5m (except creepers) 	over .5m 	under .5m 
COVER CLASS (%)				
Dominant Species				

2.0m 1.5m 1.0m .5m

4. VEGETATION CONDITION

PRISTINE	
EXCELLENT	✓
VERY GOOD	✓
GOOD	
DEGRADED	

Comments

? Evidence calcification = algae (? Chara)
herbs absent

1. SPECIES PRESENCE 11/93

QUADRAT No. CANAB 01

- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

Trees	No	ID
Nel cuneata		
Eucalyptus		
Nel raphio (seedling)		

Mallees	No	ID

SHRUBS	No	ID
Sarcozonia sp. quinquiflora	✓	VSP
[illegible] sp. 2	✓	VSP
Chamaescilla formosa	✓	Chk
Amyema [illegible]		
hyphalucia		
Melaleuca [illegible]		

SHRUBS	No	ID
30/10/93		
Hypocalymma angustifolium	✓	
Conostylis setosa	✓	
Hakea cylindrica	✓	

Bunch Grasses	No	ID
Grass = Poaceae	✓	VSP
Stipa elegantissima		

Herbs	No	ID
Trachyscias prostrata		
Trachymene pilosa		
Trigonotheca stellata		
Tribulus = Kallstroemia hirsutissima		VSP
Villarsia / Nymphoides	✓	
Cotula coronopifolia	✓	

Herbs	No	ID
S. subjuncea	✓	

Sedges	No	ID
Juncus krausii	✓	X
Juncus [illegible]	✓	X VSP
Isolepis [illegible]	✓	X VSP
ADJ		
Mel. viminea	✓	

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: _____

QUADRAT No. [illegible] VEGETATION TYPE _____

DATE TRIP [illegible] BOTANIST [illegible]

VOLUNTEERS _____

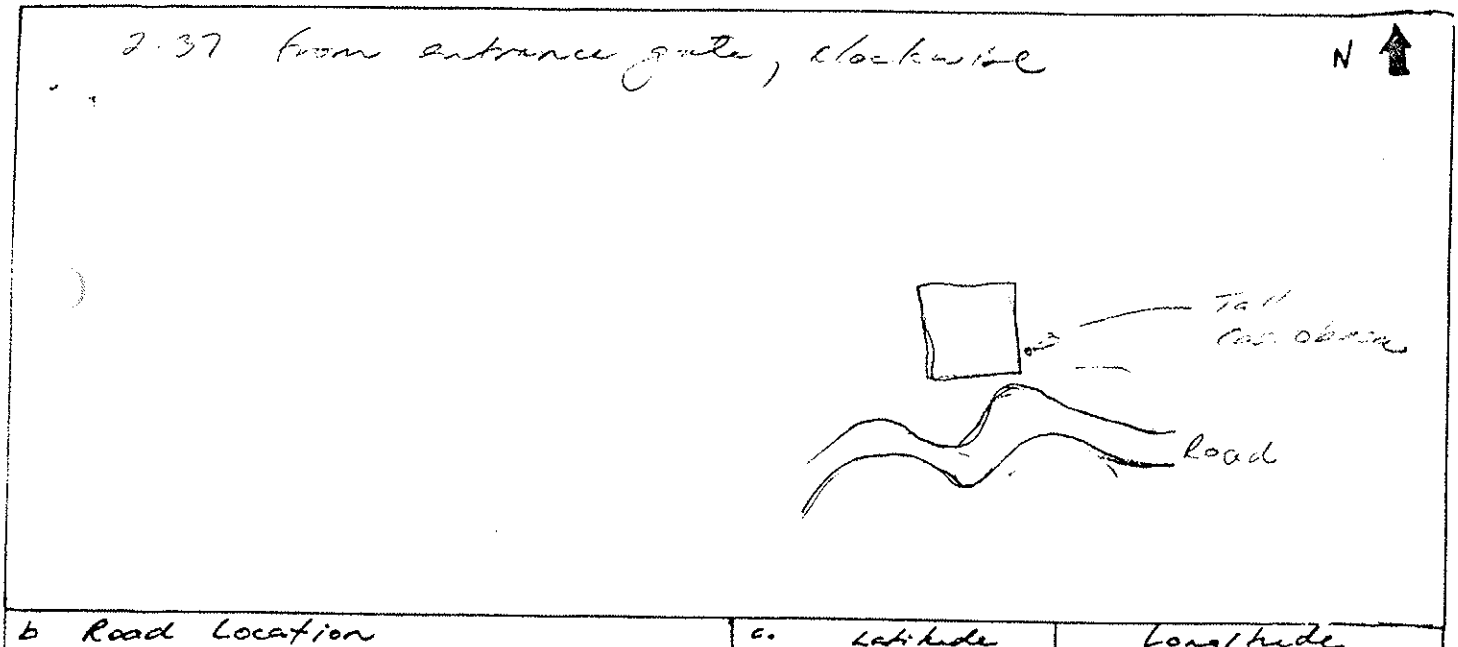
DATE TRIP _____ BOTANIST _____

VOLUNTEERS _____

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

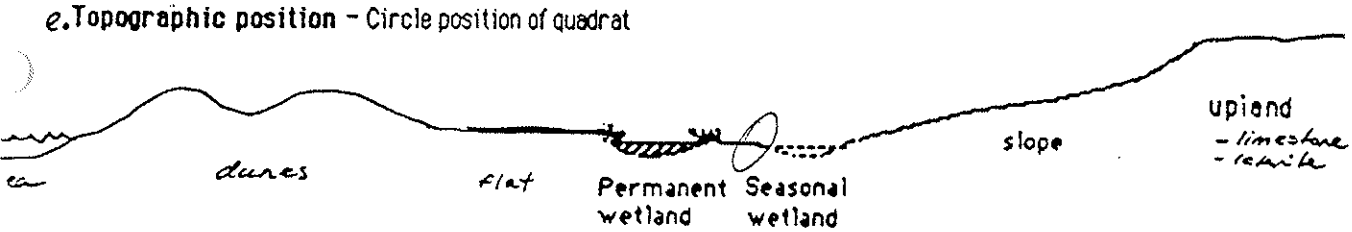
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
Central track.	32° 38' 19.6"	115° 43' 14.1"

d. **Photograph** Photographer's name NG Photo No 36 — Altitude 5m ± 10m

e. **Topographic position** - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope (flat) gentle steep

Aspect N NE E SE S SW W NW

Surface soil brown sandy clay with patches brown clay

Sub-surface soil ? clay

Wells & Lkesp = V3
EG = OKg

Drainage well mod (poor)

Wet All year (winter/spring)

Litter (% cover) 30%

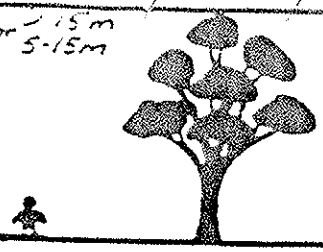
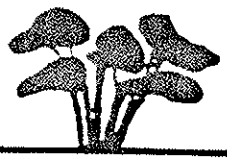
% Bare ground 20%

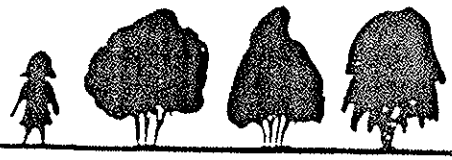
P.T.O.

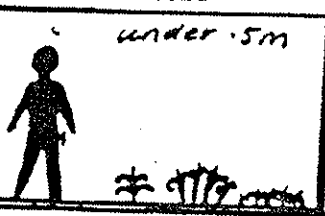
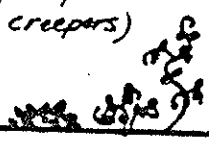
3. VEGETATION STRUCTURE AND COVER. Record appropriate cover class

Cover Class – percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES Scattered patches few ob patch adjacent		MALLEES	
	2-15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 
COVER CLASS (%)	2-15m 5-15m			
Dominant Species				

LIFE FORM	SHRUBS over 2m	2.0-1.5m	1.5-1.0m	1.0m - .5m	SHRUBS under .5m
					
COVER CLASS (%)		20-30%			
Dominant Species		Mel un			

LIFE FORM	BUNCH GRASSES under .5m	HERBS under .5m (except creepers)	SEDGES over .5m	SEDGES under .5m
				
COVER CLASS (%)		30-50%	Cladium 30-60%	10-20%
Dominant Species		Wil back Hydro Brachy.		← Juncus krausii Schoenus sp

Height (metres)

4. VEGETATION CONDITION

PRISTINE	
EXCELLENT	✓
VERY GOOD	
GOOD	
DEGRADED	

Comments

Fire ≈ 5yrs ago previously (small Mel cut ≈ 15m)

1. SPECIES PRESENCE

- work systematically through the vegetation, start with the tallest stratum, i.e. trees
- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

QUADRAT No.

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

Trees

	No	ID
Eucalyptus obesa (Yandee)	✓	

Mallees

SHRUBS

	No	ID
Acacia saligna (T. Manna)	SSIM	
Acacia cyclops		
Acacia rostellifera		
Acacia cochlearis (Fan leaved Jam)		
Acacia rostellifera		
Acacia saligna = A. cyclops sp	✓	
Adenanthos cygnorum	✓	
Banksia sessilis	✓	
Banksia quercifolia	✓	X

SHRUBS

	No	ID
29/10/92		
Conostylis candicans	X	
Bossiaea eriocarpa	VSP	A
Myrtaceae sp		
Acacia sp	VSP	
(couch) Sporobolus virginicus	X	
Samolus repens	X	
Olearia axillaris	X	
Hemiandra pungens		
Melaleuca systena	✓	
Centrolepis aristata		
Hypocalymma gracile		
Trachyandra divaricata	VSP	
Trachyandra tortilis		

Bunch Grasses

	No	ID
Ehrharta calycina		

Herbs

	No	ID
Wilsonia backhousei		
Hypericum gramineum 29/10	X	VSP
Hydrocotyle diantha	X	VSP
Lobelia alata		
Brachycome bellidioides	✓	
Lobelia alata		
Macarthuria apetala		
Stylidium piliferum		
Schoenus sp	29/10	VSP
Cyanicula (Pheladenia) deformis	✓	
Conostylis setigera	X	
Drosera glanduligera		
Trachymene pilosa	X	VSP

Herbs

	No	IL
29/10/93		
Podotheca gnaphalioides ? Sparse	✓	
Arctotheca calendula	✓	
Pelargonium sp seedling	✓	native
Schoenus sp. (CORKY) SCULENUS	VSP	✓
Centrolepis (Left Drews) aristata	✓	
29/10/93 (ADDITIONS BAC)		
Isolepis cernua	✓	VSP
Isolepis sp.	✓	
Siloxerus humifusus	✓	
Centrolepis polygyna	✓	VSP

Sedges

	No	IL
Triglochin muscosa	VSP 29/10	
Isolepis marginata	✓	VS
Schoenus (fine perennial)		native
Lomandra juncea	✓	
Juncus pallidus	✓	X
Schoenus sp off colour	✓	native
Cyperus tenellus	✓	
Juncus pallidus		X
Aphelia cyperoides	✓	X
Juncus capitatus tortilis	✓	✓ VS
Centrolepis aristata	VSP 29/10	✓ VS
Triglochin		VS
Triglochin microtissima	✓	VS
ADD		
Tricoryne	✓	ADD
Schoenus nitens	✓	(VSP)

Water Bore adjacent to

V7 area

Manuka Woodland

Kanuka Flats

Mel. on flats over sedges & Juncus,
Mehrostrobus patches, Mel on c.

Lake bed salt affected

Fringe Melaleuca raphiois on edge

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA:

QUADRAT No. CARAB 03 VEGETATION TYPE low mid.

DATE TRIP 11/10/92 BOTANIST BJK, KNE, JRM

VOLUNTEERS / /

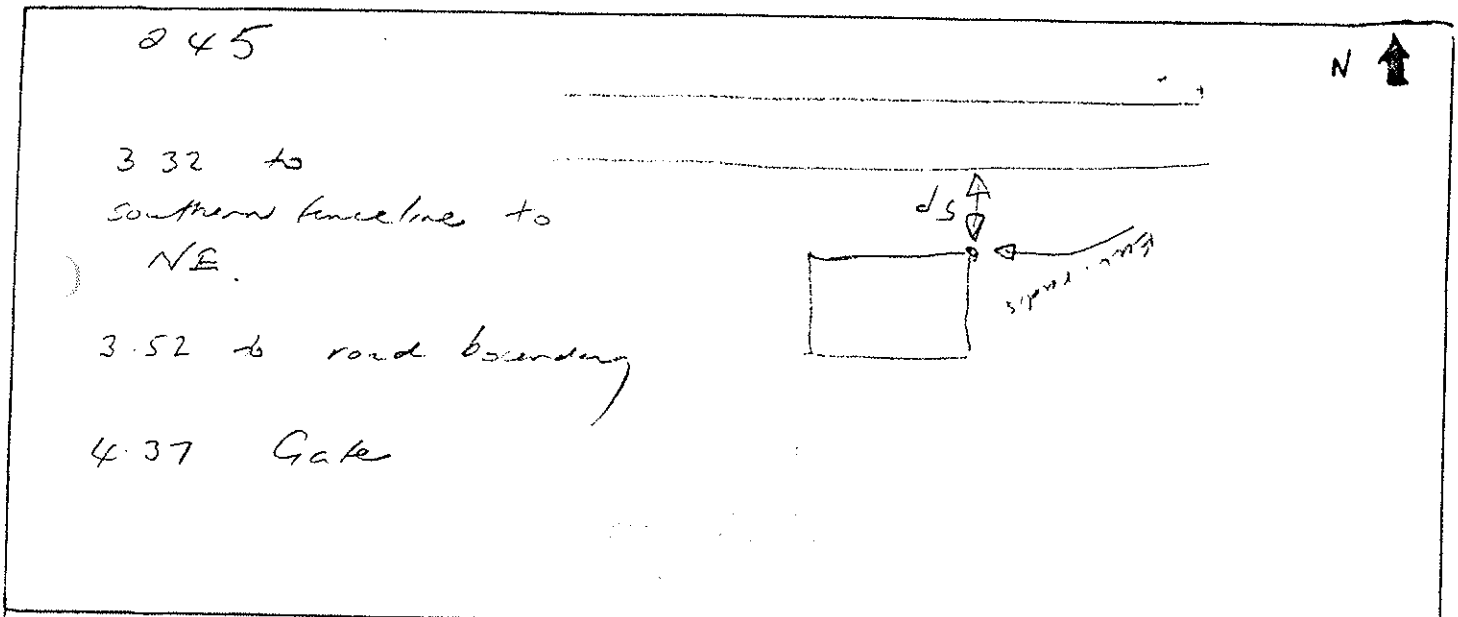
DATE TRIP 27/10/93 BOTANIST BJK / NG / MC

VOLUNTEERS / /

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

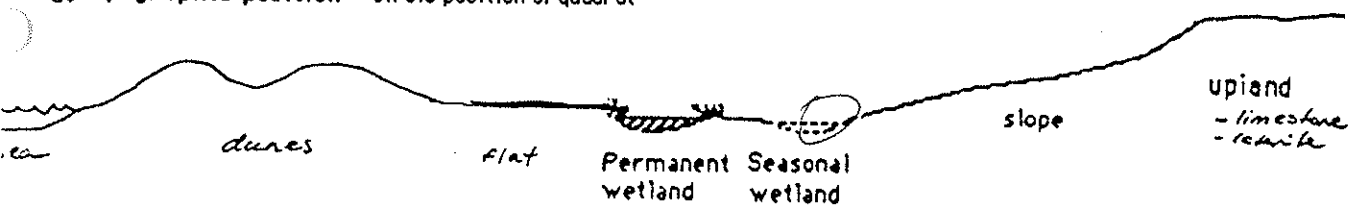
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
	32° 38' 21.7"	115° 43' 09.7'
		Altitude 5m ± 100m

d. Photograph Photographer's name NG Photo No 2

e. Topographic position - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope (flat) gentle steep

Aspect N NE E SE S SW W NW

Surface soil dark brown Humus rich sandy loam Environ Geol = DLg

Sub-surface soil Clay Wells & Lesp B4 (mapped B2 but B4 verge & adj B4)

Drainage well mod (poor)

Wet All year (winter/spring)

Litter (% cover) 95%

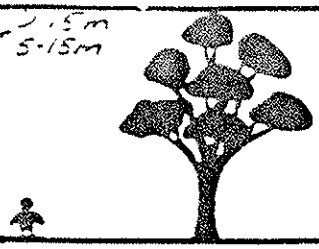
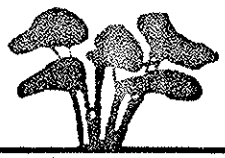
% Bare ground 0%

P.T.O.

3. VEGETATION STRUCTURE AND COVER. Record appropriate cover class

Cover Class – percentage classes

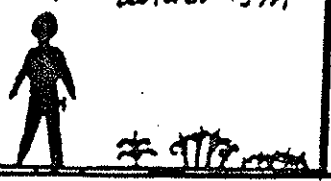
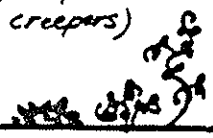
0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES	
	>15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 
COVER CLASS (%)	>15m 5-15m 10-20%	50-70%		
Dominant Species	Euc rudis	Acacia salig		

15m
10m
5m

LIFE FORM	SHRUBS use the height classes indicated				SHRUBS
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m - .5m 	under .5m 
COVER CLASS (%)			2-10%		
Dominant Species			Mac rad		

3m
2m
1m
Height (metres)

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES	
	under .5m 	under .5m (except creepers) 	over .5m 	under .5m 
COVER CLASS (%)		10-20%	2-10%	>70%
Dominant Species		Sow. jun Cassia	Gahnia tri	Lepid long Baum. jun

2.0m
1.5m
1.0m
.5m

4. VEGETATION CONDITION

PRISTINE	
EXCELLENT	
VERY GOOD	
GOOD	
DEGRADED	

Comments

Herb/weeds substantial / Annual grass weeds

past grazing, frequent fire

1. SPECIES PRESENCE

- work systematically through the vegetation, start with the tallest stratum, i.e. trees
- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

10/10/93

QUADRAT No.
MRAL 03

Trees	No	ID
Eucalyptus accedens		
Banksia sceptrum		

Mallees	No	ID

SHRUBS	No	ID
Kunzea ambigua		
Xanthorrhoea preissii		
Hibbertia racemosa		
Grevillea pilosa		
Bunny		
22/10/93		
* Briza minor		
* Bromus diandrus		

Bunch Grasses	No	ID
* Briza maxima		
* Ehrharta longiflora		
* Pennisetum villosum		

Herbs	No	ID
* Dancus glochidiatus		
* Rumex bidentatus	✓	VSP
X * Erodium sapoutense	X	VSP 29/10
Cassia pleurocarpa		
* Hypochaeris glabra		
Microtis	✓	AB
Caladenia	✓	AB
* Romulea (Trimus/rosea)	✓	VSP
Sowerbaea juncea		
* Gladiolus caryophyllaceus		X
* Lotus angustissimus		
* Arctotheca calendula		
Katipsenia cunninghamii		
X Dipodium punctatum	X	VSP
Trachymene pilosa		
Trachymene glaucifolia		

Herbs	No	ID
Thysanotus patersonii		
Caladenia 'spider'	✓	
Caladenia menziesii flat lip		
Thysanotus thyrsoideus		

Sedges	No	ID
Lepidosperma gunnii		✓
Baumea juncea	✓	VSP
Cyathochaeta diandra	✓	
Lepidosperma longitudinale	✓	
ADJ punctata SSP 29/10		
Eryngium pinnatifidum ssp palustre		VSP
Bulbine semibarbata		VSP
Stylidium ecorne		VSP
flowers		

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: AUSTEN BAY NR

QUADRAT No. AUSTB Ø1 VEGETATION TYPE Low open Sedgeland

DATE TRIP 9/9/93 BOTANIST NG/MC/GJK

VOLUNTEERS

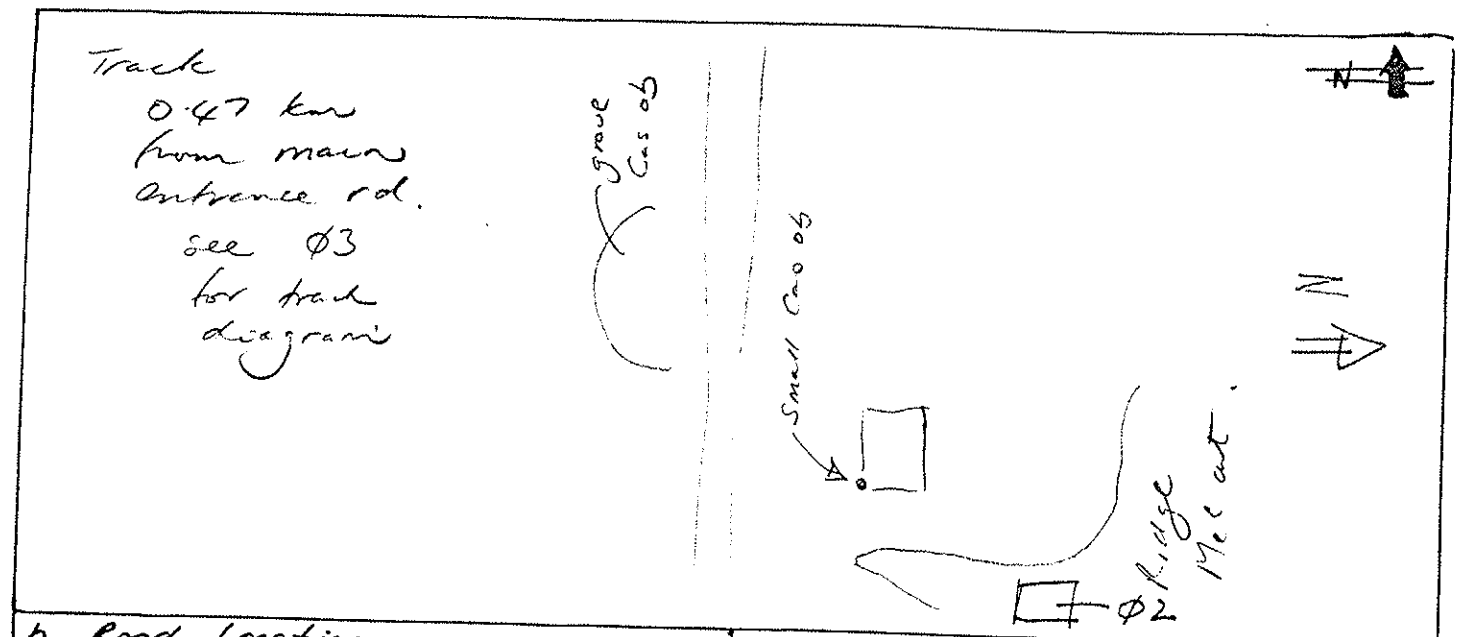
DATE TRIP 29/10/93 BOTANIST NG, GJK, ML

VOLUNTEERS

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

a. Mud Map Draw a sketch of the location of the quadrat

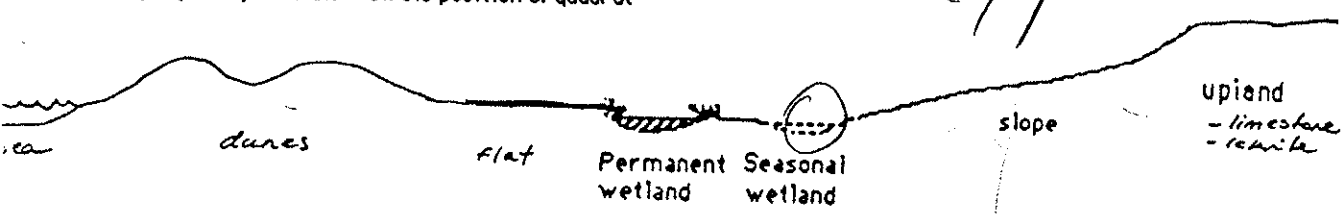


b Road Location	c. Latitude	Longitude
	32° 36' 56.3"	115° 46' 38.7"

d. Photograph Photographer's name NG NG Photo No 27 10 (29/10)

Altitude 5m ± 100m

e. Topographic position - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope (flat) gentle steep

Aspect N NE E SE S SW W NW

Surface soil Sandy clay

Sub-surface soil clay

Drainage well mod (poor)

Wet All year (winter/spring)

Litter (% cover) NA

% Bare ground NA

EG = Qhg
Wells & Hesp
Vc/V3
Species of Pin Pl
?V8

P.T.O.

1. SPECIES PRESENCE 9/9/93

QUADRAT No: AUST801

- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

Trees

No	ID
	Cas obesa (small sapling) ✓

Mallees

SHRUBS

No	ID
X	Samphire = Sarcocornia quinVSP ✓

SHRUBS

No	ID
	29/10/93
	Stylid (tiny tiny ✓ P10) (VSP)
	Glossostigma diandrum ✓
	Trichocheir ▽ or ▽ } =
	Trichocheir ▷ }
	Polygonalepis stricta ✓
X	Centrolepis (Calep) glabra ✓
X	Utricularia (small purp ✓ spurred) = violacea ✓
X	Schoenus sp FURRY } // X
X	Phyllidiella pygmaea ✓ X
X	Stylid ⊗ ⊗ = Φ6 X
X	Tribonanthes ? violacea ✓
X	* Hadpia = NO = Poly sem ✓

Bunch Grasses

No	ID
	Grass (indet)

Herbs

No	ID
	Villarsia submersa ✓ (VSP)
	Trichocheir sp ✓
	Trichocheir praemorsa ✓
	Sonchus jancea ✓
	Cotula coryn ✓ X
	Villarsia capitata ✓ X

Herbs

No	ID
X	Calandrinia granulifera ✓ X
X	Myriocephalus helichry. ✓
	Polygon. muelle. — check CREG.
	single taxa Calitriapa. ✓
	ADDITION
X	Polypogon tenuellus
X	Hordeum leporinum ✓

Sedges

No	ID
	Leptocarpus canus ✓
	Leptocarpus aristatus ✓
X	Schoenus Hopperianus. = nanus ✓ (VSP)

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: AUSTEN BAY NATURE RES

QUADRAT No. AUST Ø2 VEGETATION TYPE Melaut Low Op wood.

DATE TRIP 9/7/93 BOTANIST NG/BOK/ML

VOLUNTEERS

DATE TRIP 29/10/93 BOTANIST NG BJK ML

VOLUNTEERS

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

a. Mud Map Draw a sketch of the location of the quadrat

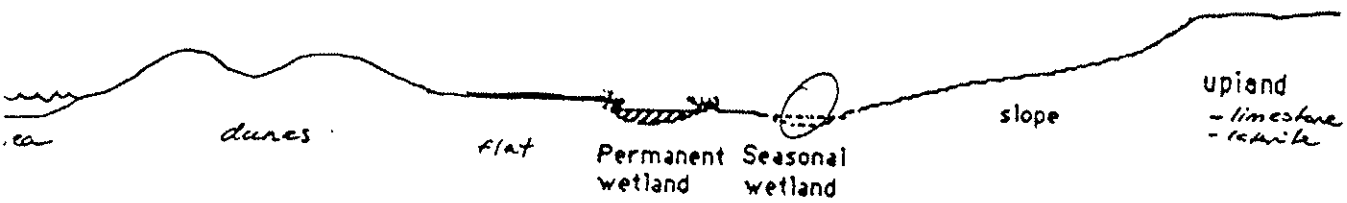
See Ø1

N

b Road Location	c. Latitude	Longitude
	32° 36 53.1"	115° 46 40.4"

d. Photograph Photographer's name NG Photo No 31 Altitude 5m ± 100m

e. Topographic position - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope (flat) gentle steep

Aspect N NE E SE S SW W NW

Surface soil Sandy clay

EG = Ø1g

Sub-surface soil clay

Wells & Hosp #8 V2/3

Drainage well mod (poor)

Wet All year (winter/spring)

Litter (% cover) 20%

% Bare ground 10%

P.T.O.

4. SPECIES PRESENCE

9/9/93

QUADRAT No.
AUST6 Ø2

- work systematically through vegetation, start with the tallest stratum, i.e. trees
- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

Trees	No	ID
Mel. cuticularis	✓	
Mallees		
?Angianthus preissianus (upright green = FISH Ø1, see RH)	✓	
SHRUBS		
Actinotheca calendulina (long narr)	✓	
29/10/93		
Glossostigma diandrum		

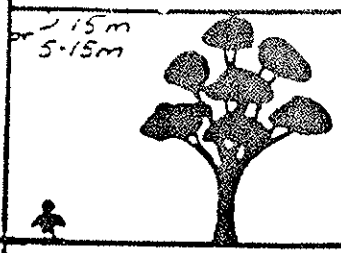
SHRUBS	No	ID
29/10/93		
Calandrinia (upright) granulifera	(VSP)	x
Phyllydrella (small) pygmaea	✓	
Stylid (tiny pink on tube) roseocandidum		
*Vulpia a weed Grass		
Centrolepis (4ft anst) polygyna	✓	
Cyperus (tennis) tenellus	(VSP)	x
Pogonolepis ?stricta NO	RH	
Schoenus (FURRY) sp2	✓	x ✓
? Blancoa sp	✓	
Cnephosis (Mystrophora) tenuissima	(VSP)	RH
*Cicendia filiformis	✓	x
Mitrasacme paradoxa	✓	
Hydrocotyle alata	✓	x
Bunch Grasses		
ADDITION (29/10/93)		
Schoenus odontocarpus	✓	
Juncus capitatus	✓	
Herbs		
Utricularia menz.	✓	
Drosera glandulosa	✓	
Samolus junceus	✓	
Hydrocotyle alata	✓	
Tribonanthes violacea	✓	
Polypompholyx multifida	✓	
Stomatal sp	✓	
Thelymitra sp	✓	
Gladiolus sp	✓	
Brachycome	✓	
Stylid	✓	

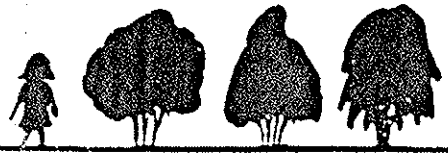
Herbs	No	ID
? aleyroides	✓	
Centrolepis ? polygyna		
Isolepis old.	✓	x (VSP)
Trachyscias calcitrapus	✓	(VSP)
Asthelia cyp.		✓
Juncus capitatus	✓	
Isolepis marg	✓	x ✓
Stylid = periscelanthum		✓
Centrolepis aristata	✓	x
Goodenia filiformis [micrantha]	✓	✓
Drosera stolon		
* Weed Grass		
Burchardia multiflora		
Siloxerus humi.	✓	
* Romulea rosea		
Utricularia [tiny pump spur] violacea		
* Cotula (in pots) Sudenstein	✓	x
* Grass - Polypogon tenellus		
* Briza minor		x
Sedges		
Leptocarpus tenax	✓	
Centrolepis aristata	✓	x
ADDITION		
* Holcus setigera	✓	
AUS		
Boss sp.	✓	

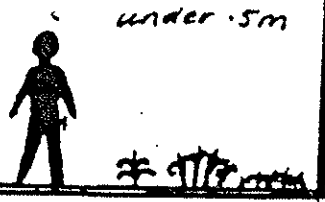
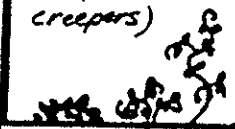
3. VEGETATION STRUCTURE AND COVER Record appropriate cover class

Cover Class - percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES		
	>15m 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 	15m 10m 5m
COVER CLASS (%)	>15m 5-15m				
Dominant Species	Euc. obesa scattered over site				

LIFE FORM	SHRUBS use the height classes indicated				SHRUBS	
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m - .5m 	under .5m 	3m 2m 1m Height (metres)
COVER CLASS (%)						
Dominant Species						

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES		
	under .5m 	under .5m (except creepers) 	over .5m 	under .5m 	1.0m 1.5m 1.0m .5m
COVER CLASS (%)		NA ~~10-20%~~ 50-70% (2 spp)		10-20%	
Dominant Species		Vill. sicta Trachelium sp		Leptocarpus	

Cantalopis / sp
Aster = Myriocephalus

4. VEGETATION CONDITION

		comments
PRISTINE	✓	
EXCELLENT		
VERY GOOD		
GOOD		
DEGRADED		

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: AUSTEN BAY NR

QUADRAT No. AUSTB Ø3 VEGETATION TYPE Mixed Shrubland

DATE TRIP 7/9/93 BOTANIST GJK/ML/NG

VOLUNTEERS

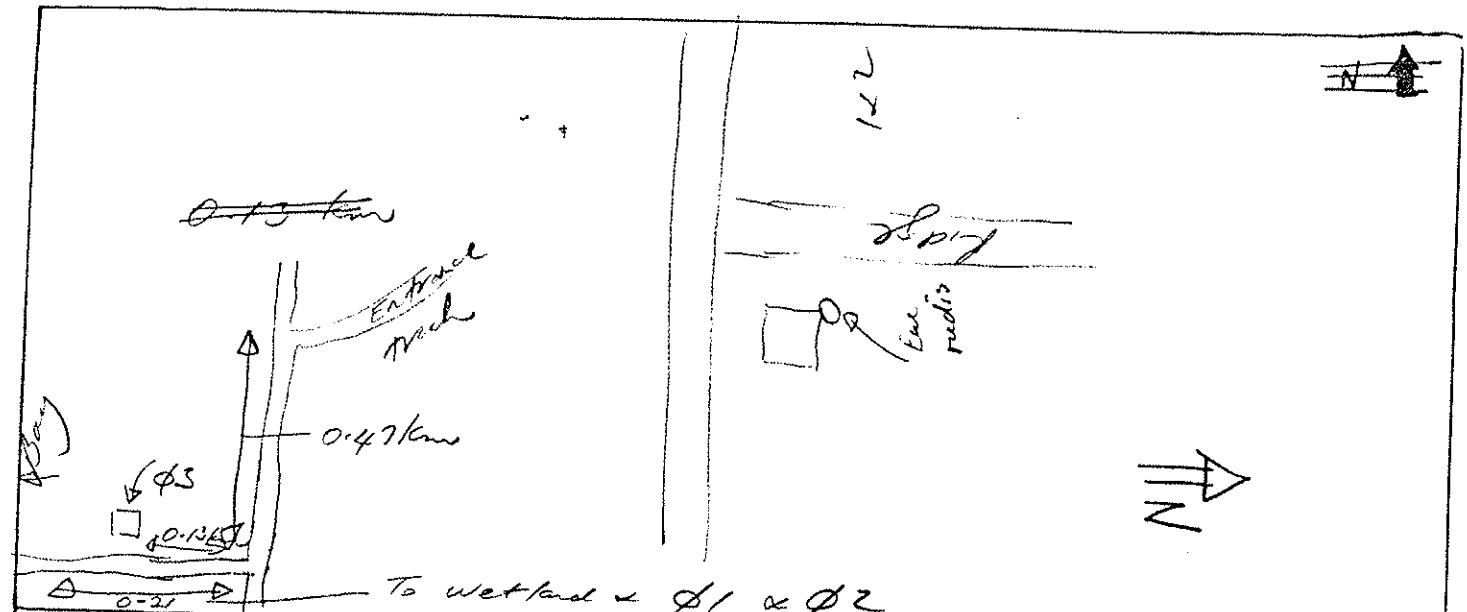
DATE TRIP 29/10/93 BOTANIST GJK/ML/NG

VOLUNTEERS

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

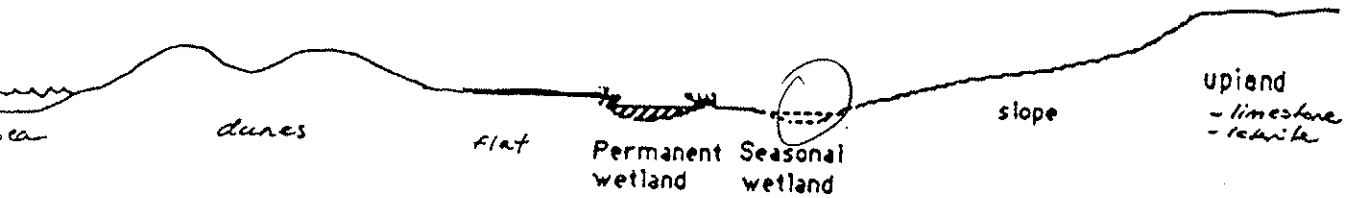
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
	32° 36' 56.7"	115° 46' 45.2"
		Altitude 5m ± 100m

d. Photograph Photographer's name NG Photo No 32

e. Topographic position - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope flat gentle steep

Aspect N NE E SE S SW W NW

Surface soil sandy clay

EG = Qhg

Sub-surface soil clay

Wells ∝ Heap ~~Ø1,Ø3~~ = V6a (mapped but close to V2/V3)

Drainage well mod poor

Wet All year winter/spring

Litter (% cover) 50%

% Bare ground 0%

P.T.O.

4. SPECIES PRESENCE

9/9/93

QUADRAT No.
AUSTB 03

- **work systematically** through the **vegetation**, start with the tallest stratum, i.e. trees
- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

Trees

	No	ID
Ac saligna	✓	
Euc. rudis	✓	

Mallees

SHRUBS

	No	ID
Mel. lateritia	✓	
Mel. polygal	✓	
Cal. latifolia	✓	
Dillwynia dillw.	✓	
~~Pomaderris~~		
Astartea fascic	✓	

SHRUBS

	No	ID
29/10/93		
*Briza minor	✓	
X *Monopsis simplex (purple)	✓	
Lobe		
X Stylid ? longitubum ~~tricolor~~	(VSP)	PTO:
X *Vulpia (sterile) myurosX	✓	
Lily (leaves only		
*Gastrolea pauciflora (pink)	✓	
X Centrolepis tiny aff glauca	=	Centrolepis glabra ✓
X Villarsia parn) = albiflora	✓	
Juncus ~~capitatus~~ bufonius X	✓	
Centrolepis aristata	X ✓	29/10/93 (ADDITION)
X Centrolepis ~~strigosa~~ muticaX		X Isolepis sellaris ✓ (VSP)
Isolepis old	✓ X	

Bunch Grasses

	No	ID
Myriophyllum	✓	
NE Dead strap.		

Herbs

	No	ID
* Hypochaeris glabra	✓	
Trachyloch Drosera	✓	
X Villarsia ? capitata	✓	
Cotula coronop	✓	X
A Senecio Jolonicus	✓	

Herbs

	No	ID

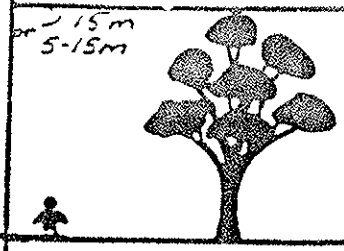
Sedges

	No	ID
X Isolepis [illegible]	✓	(VSP)
Leptospermum [illegible]	✓	
~~Cot~~		
Isolepis [illegible]	✓	(VSP)

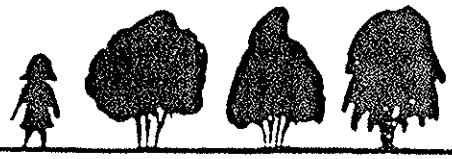
3. VEGETATION STRUCTURE AND COVER. Record appropriate cover class

Cover Class – percentage classes

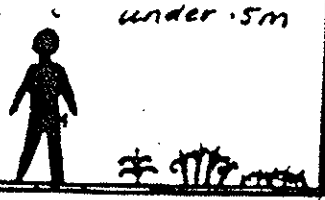
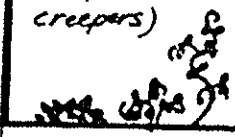
0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES	
	>/= 15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 
COVER CLASS (%)	>15m 5-15m	10 - 20%		
Dominant Species		Mel. cut		

15m
10m
5m

LIFE FORM	SHRUBS (use the height classes indicated)				SHRUBS
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m - .5m 	under .5m 
COVER CLASS (%)					
Dominant Species					

3m
2m
1m
Height (metres)

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES	
	under .5m 	under .5m (except creepers) 	over .5m 	under .5m 
COVER CLASS (%)		(≈ 30-50%)		20 - 30%
Dominant Species		>70% misc Thicky dwarf		Lepto arist

2.0m
1.5m
1.0m
.5m

4. VEGETATION CONDITION

PRISTINE	
EXCELLENT	
VERY GOOD	
GOOD	
DEGRADED	

comments
NA occ scattered weeds

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: AUST

QUADRAT No. AUST6 DK VEGETATION TYPE Bank alt. open wood.

DATE TRIP 4/9/93 BOTANIST MK/NG/BJK

VOLUNTEERS

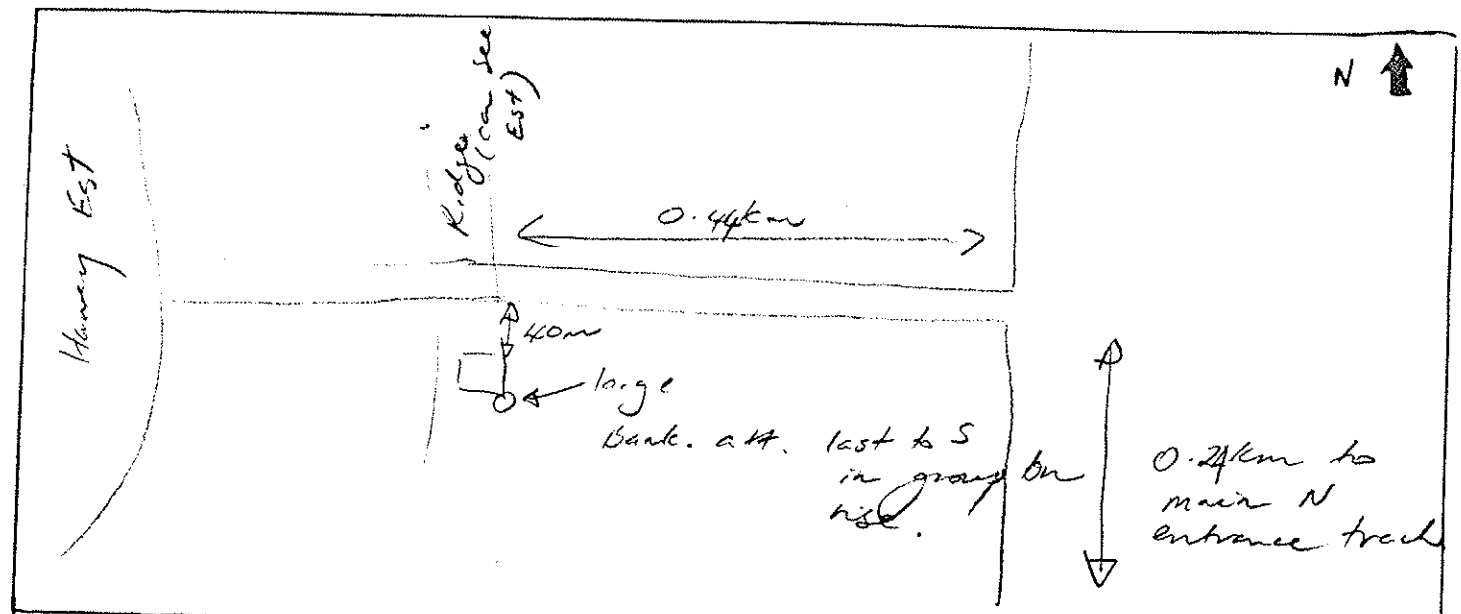
DATE TRIP 29/10/93 BOTANIST NG, MK/BJK.

VOLUNTEERS

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

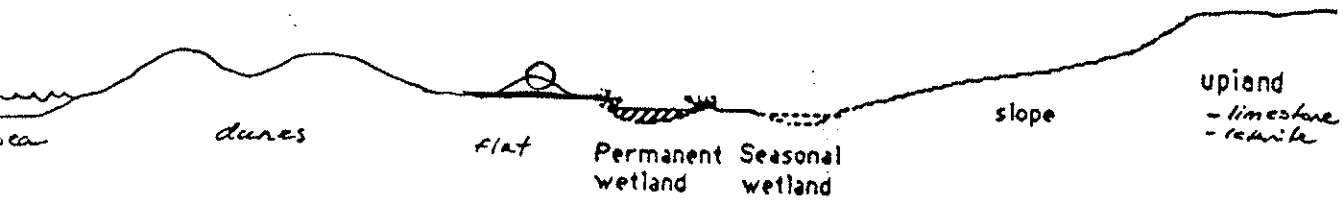
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
0.41 km N/S Track.	32° 36' 39.8"	115° 46' 32.8"

d. Photograph Photographer's name NG Photo No 33 **Altitude** 5m ↑ 100 m

e. Topographic position - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope flat gentle steep

Aspect N NE E SE S SW W NW

Surface soil grey sand over EG = Qhg6

Sub-surface soil ? Wells & Lowry = Vb

Drainage well mod poor

Wet All year winter/spring

Litter (% cover) 80%

% Bare ground 5%

P.T.O.

1. SPECIES PRESENCE

9/9/93

QUADRAT No.
AUSTB 04

- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

Trees	No	ID
Banksia attenuata ✓		
Banksia ilicifolia (sapling) ✓		
Acacia saligna ✓		
Mallees		
SHRUBS		
Kunzea ericifolia ✓		
Jacksonia furcellata ✓		
Gomph. tomentosum ✓		
Macrozamia riedlii ✓		
Panicalymma ellip. ✓		
Exocarpus sparteus ✓		

SHRUBS	No	ID
27/10/93		
Haemod. spicatum ✓		
Conopholepis pilosa ✓		
* Ursinia anthem ✓		
Trachymene pilosa ✓		
Mirbelia racine paradoxa ✓		
* Vulpia ✓		
* Hypo. glabra ✓		
Siloxerus humifusus ✓		
Conospermum calcaratum ✓		
Note trunked Spathiums in area to low		
Bunch Grasses		
* Microlaena stip ✓		
Herbs		
Caladenia flava ✓		
Dianella revoluta ✓		
Trachymene pilosa ✓		
Lyperanthus nigricans ✓		
~~Lobelia heterophylla~~		
Drosera stolonifera ✓		
Stylid. brun ✓		
Thysanotus patersonii ✓		
Chaetanthera corymbosa ✓		

Herbs	No	ID
Sedges		
Baumea juncea		
Hypolaena exsulca ✓		
Lepidosperm. laev.		

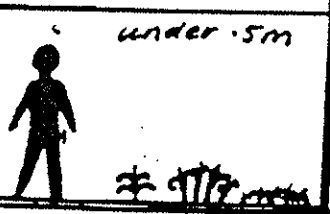
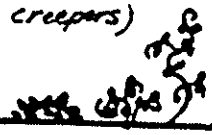
3. VEGETATION STRUCTURE AND COVER Record appropriate cover class

Cover Class – percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES		
	>15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 	15m 10m 5m
COVER CLASS (%)	>15m				
	5-15m				
Dominant Species					

LIFE FORM	SHRUBS				SHRUBS	
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m-.5m 	under 5m 	3m 2m 1m Height (metres)
COVER CLASS (%)			>70%			
Dominant Species			Mel lat Mel par Dill. Dill Bark. lat.			

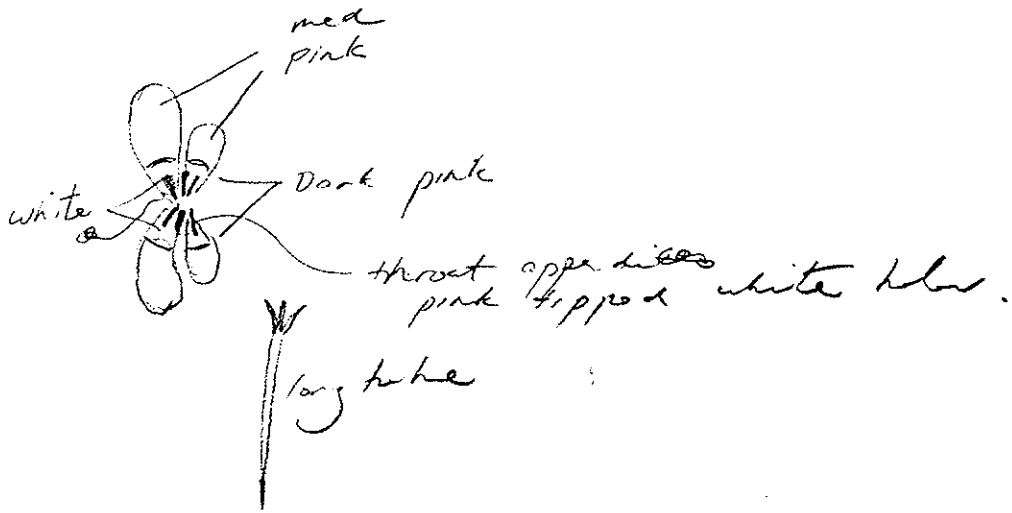
LIFE FORM	BUNCH GRASSES	HERBS	SEDGES		
	under .5m 	under .5m (except creepers) 	over .5m 	under .5m 	2.0m 1.5m 1.0m .5m
COVER CLASS (%)		20-30%	20-30%		
Dominant Species		Stylid long *Blat. per. (not dense but most of plot)	Lept canes		

4. VEGETATION CONDITION over most of plot

1	PRISTINE	
2	EXCELLENT	✓
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

Comments

Grevillea parviflora
+ 50% Leb lager


med pink
Dark pink
white
throat appendages pink tipped white below.
long tube

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: MOLTEN CAY NATURE RES

QUADRAT No. MCNR 05 VEGETATION TYPE

DATE TRIP 9/9/93 BOTANIST NG/GJK/ML

VOLUNTEERS

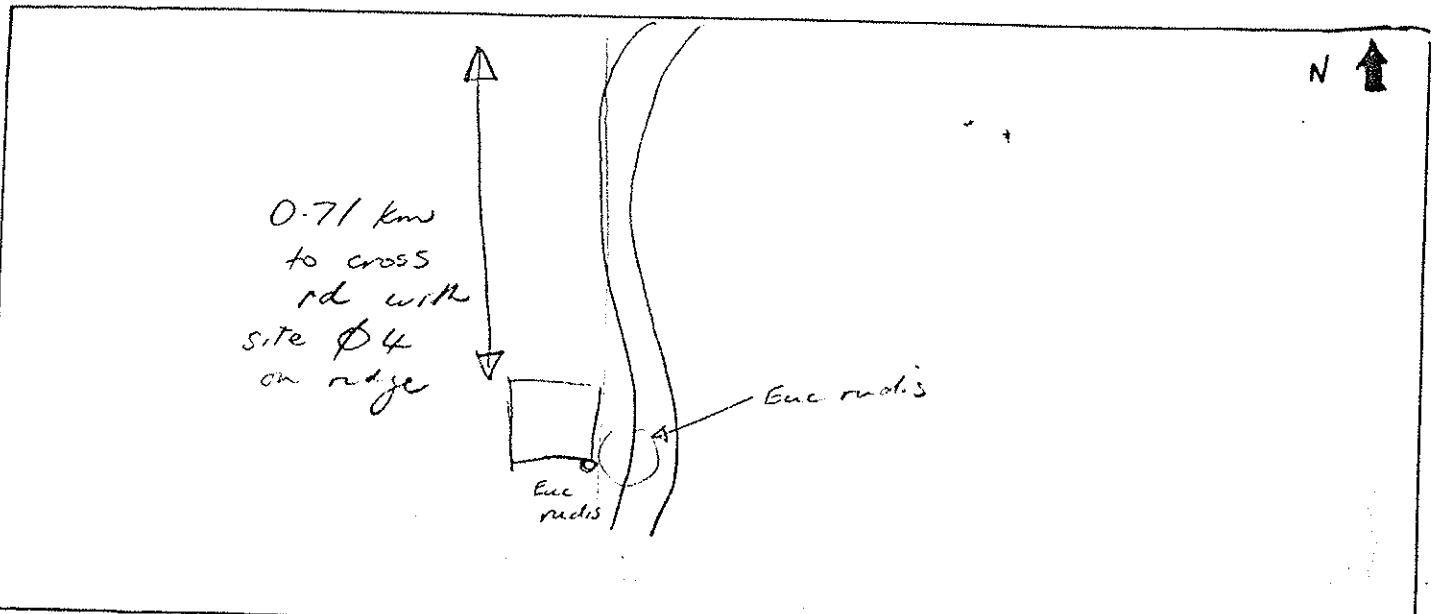
DATE TRIP 29/9/93 BOTANIST GJK/NG/ML

VOLUNTEERS

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

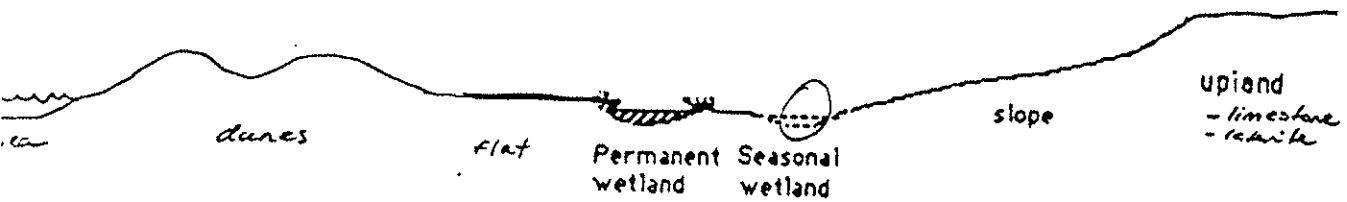
a. Mud Map Draw a sketch of the location of the quadrat



b. Road Location	c. Latitude	Longitude
	32° 36' 12·8"	115° 46' 50·0"

d. **Photograph** Photographer's name NG Photo No 7 (29/10) Altitude 5M ± 150m

e. **Topographic position** - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope flat (gentle) steep

Aspect N NE E SE S SW W NW

Surface soil humus rich sand EG = Qhg6

Sub-surface soil clay Wells & HKSP = ~~Fg/Fs~~ Vba

Drainage well mod (poor)

Wet All year (winter/spring)

Litter (% cover) 98%

% Bare ground 0%

P.T.O.

4. SPECIES PRESENCE

7/9/93

QUADRAT/No. AUST6 05

- work systematically through the vegetation, start with the tallest stratum, i.e. trees
- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

Trees	No	ID
Euc. rudis		
Ac. saligna (shrub–tree)	✓	
~~Mel. lept.~~		

Mallees

SHRUBS

Mel. uncinata	✓	
Jack., hurcellata	✓	
Panicalym ellip	✓	
Cal. teteralix	✓	
Hakea varia	✓	
Mela. polyg.	✓	
Gomph. ? Adam	✓	
Astartea fascic.	✓	

SHRUBS	No	ID
27/10/93		
Stylid. calcaratum	✓	
Quantookia pusilla	✓	
Silaerina fuchs	✓	
Anthelia spp.	✓	
Carpolepis ? on slate	✓	
Loxocarya pubescens	✓	
Schoenus nigens	✓	
* Briza minor	✓	
* Vulpia	✓	
* Briza maxima	✓	
Selaginella	✓	
~~Aotus gracilima~~		
? Legrobbia = Resto laplo	✓	VSP
Tetrarrhena thyrsoides	✓	

Bunch Grasses

Herbs

Pterostylis vittata	✓	
Ibmalo homalo	✓	
* Lotus	✓	
Microtis sp.	27/10 ✓	
Craspedia glauca	✓	
? Podotheca (seedy)	✓	
Stylid brun	✓	
Conostylis aculeata	✓	
* Hypochaeris glabra	✓	
Microstylis sp.	✓	
Daspripera linearis	✓	
Caladenia flava	✓	
Thys. patersonii	✓	

Herbs	No	ID
? Goodenia ? pulchella		
Inc Fl. Lawrence (1.5)		
= Velleia trinervis	✓	
27/10/93		
Stylid dichot	✓	
Hydrocotyle callitrapa	✓	
Dillwynia dillwynioides	✓	
Drosera prehensa	✓	
Hypolaena ? exsulca	✓	
other hyp prob = Lepyrodia		
Drosera neesii ssp		
Carpolepis ? ? dwarf (not seen)		
Mitrasacme paradoxa	✓	

Sedges

Lepid tenax	✓	
? Hypolaena exsulca = (Loxo)		VSP
Baumea juncea ? Schoenus brevifolius		
Schoenus brevi		
= ? nigens		
Patio leptocarpoides	✓	
Hypo gracilis	✓	
ADJ in packet 1+2		
Mel vim	✓	
~~Mel lep~~		
prob not		

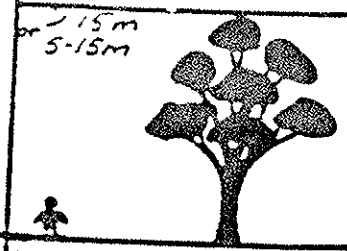
Note: On consideration these appear to Schoenus subtrigonus

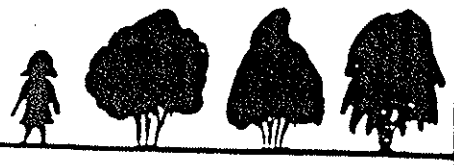
VSP ✓

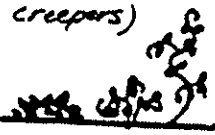
3. VEGETATION STRUCTURE AND COVER Record appropriate cover class

Cover Class – percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES		
	>/= 15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 	15m 10m 5m
COVER CLASS (%)	>15m 5-15m 2-10%				
Dominant Species	Eark alt				

LIFE FORM	SHRUBS				SHRUBS	
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m - .5m 	under 5m 	3m 2m 1m Height (metres)
COVER CLASS (%)		10-30%				
Dominant Species		Kun ericoides Macrozamia reidlei Jack Pine				

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES		
	under .5m 	under .5m (except creepers) 	over .5m 	under .5m 	2.0m 1.5m 1.0m .5m
COVER CLASS (%)				Below 30-70%	
Dominant Species				Daucus glochidiatus Hyp. exsul.	

4. VEGETATION CONDITION

PRISTINE	
EXCELLENT	✓
VERY GOOD	✓
GOOD	
DEGRADED	

Comments
appears to have been disturbed ? grazing
Kunzea & Jack too thick.

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: Austin Bay Nat Res.

QUADRAT No. AUSTB 06 VEGETATION TYPE Melaleuca Shrubs

DATE TRIP 9/9/93 BOTANIST MC/BJK/NG

VOLUNTEERS / /

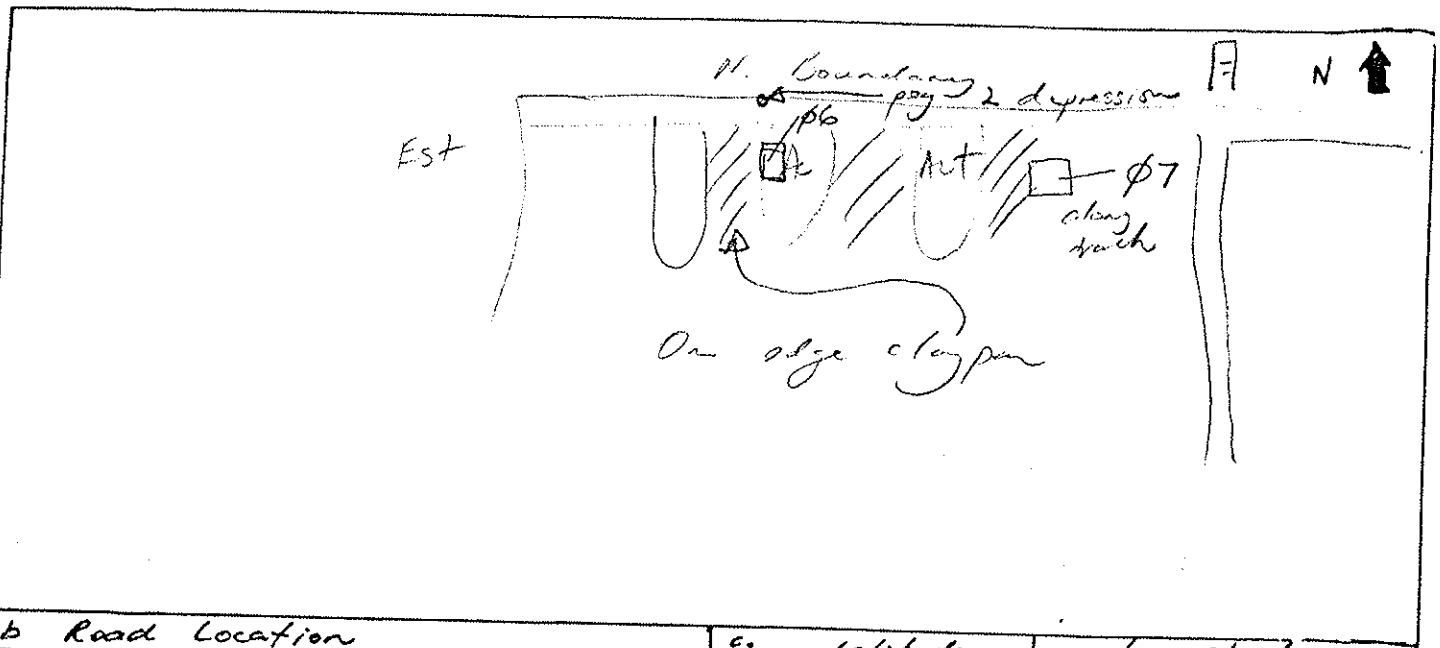
DATE TRIP 19/10/93 BOTANIST BJK/MC/NG

VOLUNTEERS / /

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
	32° 36' 06.5"	115° 46' 40.2"
		Altitude 5m ± 100m

d. Photograph Photographer's name NG Photo No 35

e. Topographic position - Circle position of quadrat

2. SITE DATA - Circle the correct response

Slope flat (gentle) steep

Top Ridge.

Aspect N NE (E) SE S SW (W) NW

Surface soil grey sand

Sub-surface soil clay

EG = Qhg6

Wells Likesp = V6

Drainage (well) mod poor

Wet All year winter/spring

Litter (% cover) 98%

% Bare ground 0%

P.T.O.

1. SPECIES PRESENCE 7/7/93

QUADRAT No. AUSTB 06

- work systematically through the vegetation, start with the tallest stratum, i.e. trees
- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN SURVEY. WILDFLOWER SOCIETY of WA

Trees

No	ID

Mallees

SHRUBS

- Actinpyrim. * ✓
- Macrozamia riedlii (seedlings) ✓
- Kennedia prin. ✓
- Mel uncinata ✓
- Conosp. tomentosa ✓
- Acacia saligna ✓
- * Trachylobium preissii ✓ (USP)

* Many seedlings too

SHRUBS

No	ID

29/10/93

- ~~Eriostemon~~
- ~~Stirlingia~~
- ~~Isotropis cuneifolia~~
- ~~Stylid paludicolum~~ } = Q7
- ~~Grevillea nudiflora~~
- * ~~Bill pinaroo~~
- ~~Dampiera teretifolia~~

- Wahlenb. preissii ✓
- Waitzia citrina ✓
- X * Hyp. cary. ✓
- Mirbasaemea paradoxa ✓
- Quinetia urvillei ✓
- Poranth. micro. ✓

Bunch Grasses

- * Briza maxima ✓
- * Vulpia ✓

Herbs

- * Ursinia anthem. ✓
- * Hyp. glabra ✓
- Schoenolis cuculata ✓
- Pterostylis sanguinea ✓
- Leucochrysum pusillum ✓
- Caladenia flava ✓
- ? Millotia tenuif. ✓
- Calandrinia ✓
- ? Veronica ✓
- ~~* Romulea~~
- Trachymene SD ✓
- Quinetia urvillei ✓
- Trachy. mem. pilosa ✓
- ~~Thys~~ Many ✓
- ? Podotheca angust ✓

Herbs

No	ID

- Hydrocotyle sp FRUIT ✓

29/10/93

- Centrolepis pilosa ✓
- X Centrolepis drum. ✓
- Crassula colorata ✓
- Styp. compressa ✓
- * Romulea rosea ✓
- Podotheca angust ✓
- X Carex acuta ? * Sagina apetala ✓

29/10/93 ADDITION

- Hydrocotyle callicarpa ✓

Sedges

- Baumea juncea ✓

ADJ Jack Skm ✓

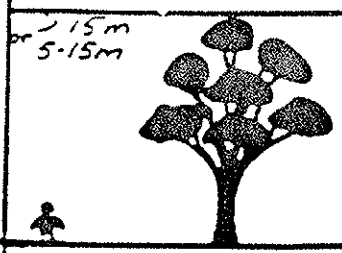
ADJ Claypan

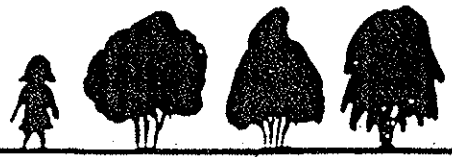
- Mel Vim ✓
- X Cotula coronopifolia ✓

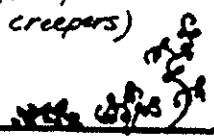
3. VEGETATION STRUCTURE AND COVER Record appropriate cover class

Cover Class – percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES		
	>15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 	15m 10m 5m
COVER CLASS (%)	>15m 5-15m 2-10%	10-20% ~~20-30%~~			
Dominant Species	Euc. redis	~~Ac. salign~~ Euc. red			

LIFE FORM	SHRUBS over 2m	2.0-1.5m	1.5-1.0m	1.0m-.5m	SHRUBS under .5m	Height (metres) 3m 2m 1m
						
COVER CLASS (%)	10-20% ~~20-30%~~		70%			
Dominant Species	Vim. junc. ~~Ac. salign~~ ~~Mel~~		Mel. unc. Cal lat Pom ellip			

LIFE FORM	BUNCH GRASSES under .5m	HERBS under .5m (except creepers)	SEDGES over .5m	SEDGES under .5m	2.0m 1.5m 1.0m .5m
					
COVER CLASS (%)				30-50%	
Dominant Species				? Hyp. oxs. Loxo pub.	

? ~~Lomandra juncea~~

4. VEGETATION CONDITION

PRISTINE	
EXCELLENT	)
VERY GOOD	
GOOD	
DEGRADED	

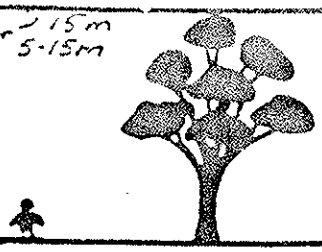
Comments

Very few weeds, occ scattered.

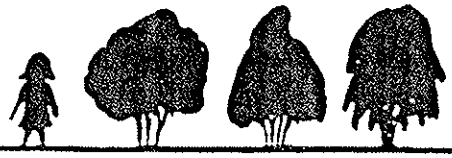
3. VEGETATION STRUCTURE AND COVER Record appropriate cover class

Cover Class - percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

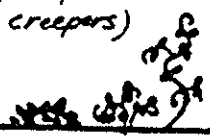
LIFE FORM	TREES		MALLEES	
	over 15m / 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 
COVER CLASS (%)	>15m 5-15m			
Dominant Species				

15m
10m
5m

LIFE FORM	SHRUBS (use the height classes indicated)				SHRUBS
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m - .5m 	under .5m 
COVER CLASS (%)					
Dominant Species	Act pyr 30-70%. ~~Mel sp~~ ~~Ac salig~~				

3m
2m
1m

Height (metres)

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES	
	under .5m 	under .5m (except creepers) 	over .5m 	under .5m 
COVER CLASS (%)				
Dominant Species				

1.0m
1.5m
1.0m
.5m

4. VEGETATION CONDITION

PRISTINE	
EXCELLENT	
VERY GOOD	✓
GOOD	
DEGRADED	

comments
Hot fire, seven age in general!
Lichen cover ≈ 50% site

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: ROSTER BAY

QUADRAT No. ROSTER 07 VEGETATION TYPE Melaleuca/Low Shrub

DATE TRIP 9/9/93 BOTANIST MC/NG/BBK

VOLUNTEERS / /

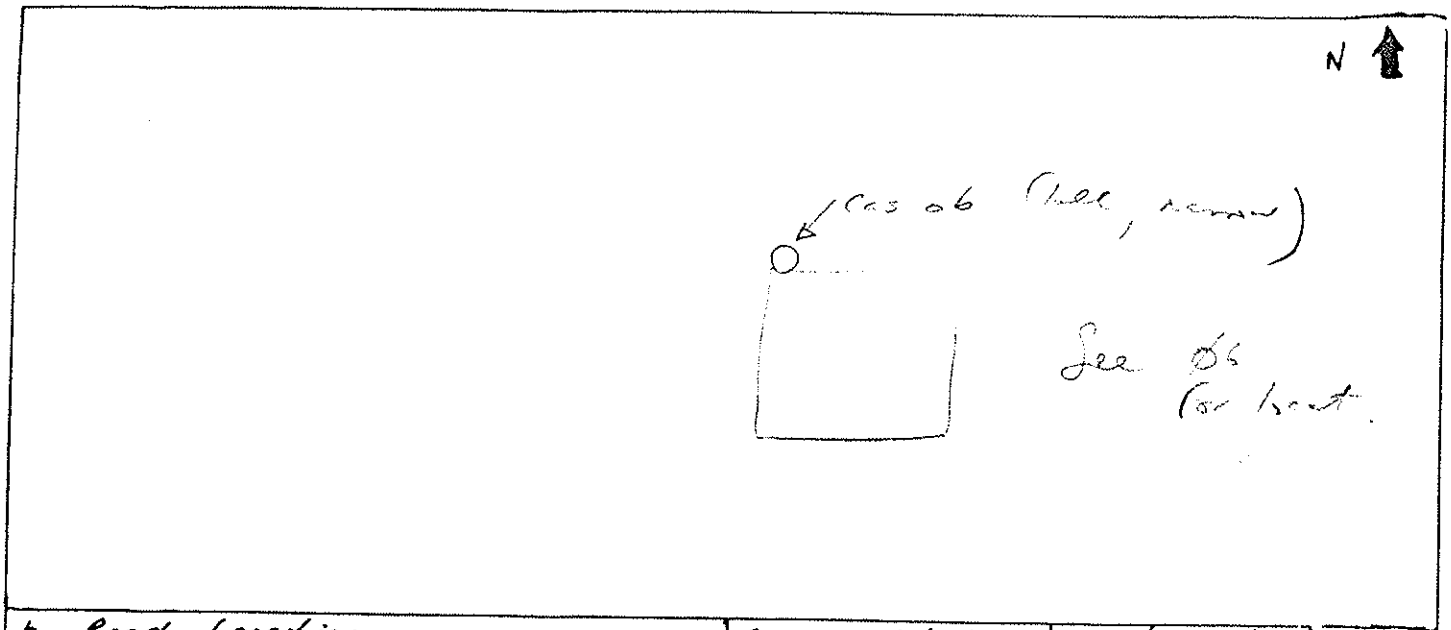
DATE TRIP 22/10/93 BOTANIST NG, MC, BBK

VOLUNTEERS

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

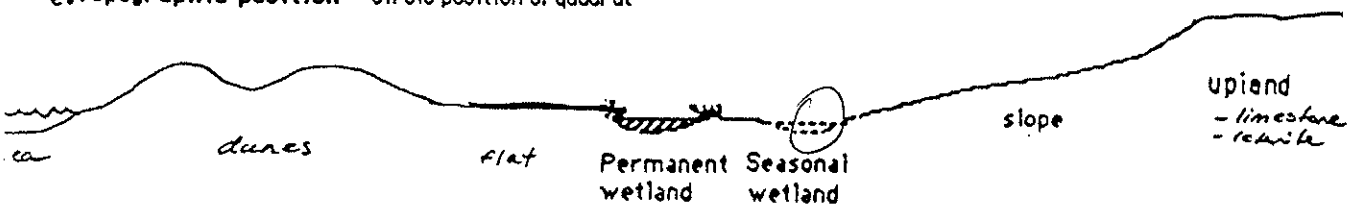
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
	32 36 06.7	115 46 47.2
		Altitude 5m ± 100m

d. Photograph Photographer's name NG Photo No

e. Topographic position - Circle position of quadrat (ROAD site)



2. SITE DATA - Circle the correct response

Slope (flat) gentle steep

Aspect N NE E SE S SW W NW

Surface soil brown sandy clay EG = Qhg

Sub-surface soil clay Wells & Lesp = V2/V3

Drainage well mod (poor)

Wet All year (winter/spring)

Litter (% cover) 50%

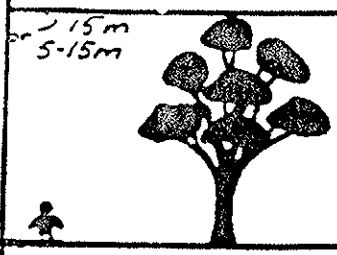
% Bare ground 0%

P.T.O.

3. VEGETATION STRUCTURE AND COVER. Record appropriate cover class

Cover Class – percentage classes

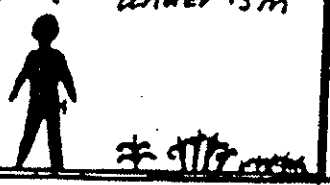
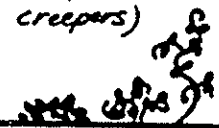
0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES	
	>15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 
COVER CLASS (%)	>15m 5-15m			
Dominant Species				

15m
10m
5m

LIFE FORM	SHRUBS use the height classes indicated				SHRUBS
	over 2m 	2.0-1.5m	1.5-1.0m	1.0m-.5m	under .5m
COVER CLASS (%)		50-70%			
Dominant Species		Mel uno. Mel vim.			

3m
2m
1m
Height (metres)

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES	
	under .5m 	under .5m (except creepers) 	over .5m 	under .5m 
COVER CLASS (%)	? 20-30%	Moss 60% Forbs ~~50%~~		
Dominant Species	Briza max	770% 29/10		

2.0m
1.5m
1.0m
.5m

4. VEGETATION CONDITION

1	PRISTINE	
2	EXCELLENT	✓
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

Comments

weeds on mounds most predom native herbs very much intact all over, esp in wetter patches.

* Brix max * Hyp glabra

1. SPECIES PRESENCE

29/10/93

QUADRAT No.

MUSTB 67

- Work systematically through the vegetation, start with the tallest stratum, i.e. trees
- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

Trees

	No	ID
Cas. obesa ✓		

Mallees

	No	ID

SHRUBS

	No	ID
Mel dec. ✓		
Mel viri ✓		
Mel sqa ✓		
29/10/93 additions		
Hydrocotyle alata ✓		
~~Hydrocotyle pusilla~~		
Schoenus sp 2 (FURRY) ✓		
Logania loasis / stricta ✓		
✱ Billardiera bicaso ✓		
Platysaccum tenuifolium ✓		
Platysaccum debilis ✓		

SHRUBS

	No	ID
29/10/93		
Siloxerus humif ✓		
Juncus sp. ✓		
Stylid paludicolum. ✓		
Stirula nutans ✓		
X Stylid ~~sp~~ large white ✓		
✱ Grevillea sp. ✓		
✱ Briza minor ✓		
X Candonia [Goodenia] micrantha ✓		
X Stylid sp. large white & innund. ✓		
Centrolepis aristata ✓		
X Isolepis prolifera ✓		
Caladenia spider ✓		
Trachymene pilosa ✓		

Bunch Grasses

	No	ID
✱ Briza maxima ✓		
X ✱ Vulpia myuros ✓		

Herbs

	No	ID
Tribonanthes violacea ✓		
X Conostylis sp 29/10 VSP = scrapposa ✓		
Chamaescilla corymb. / pale blue ✓		
Thysanot patersonii ✓		
Thysanot sp = 98 (tuber)		
Caladenia arenicola ✓		
✱ Hypochaeris glabra ✓		
Podotheca angustifolia ssp major ✓		
Trachymene sp ✓		
Mesembr ✓		
X Stylid = above ✓		
Hydrocotyle hemicola ✓		
Drosera stenopetala ✓		
Levenhookia pusilla 29/10 ✓	✓	
✓		
X ✓ Veronica arvensis ✓	(VSP)	
Trachymene pilosa ✓		

Herbs

	No	ID
X Brachycome bellidioides ✓		
Phyllydrella pygmaea ✓		
Polypompholyx multif. ✓		
X Selaginella ✓		
X Craspedia tenuis. 29/10 ✓		
X Hydrocotyle alata 29/10 Fruit ✓		
= pericellianthum		
29/10/93		
✱ Anagalis arvensis ✓		
Podotheca angustifolia ✓		
Mitrasacme paradoxa ✓		
X Calandrinia granulifera ✓		
X Centrolepis [Left drawn] = mutica		
Blennospora ✓		
X Schoenus odont ✓		
X Triglochin (squirrel) calcitrapum ✓	(VSP)	
X Schoenus sp. disciflorus ✓		
X Centrolepis aristata ✓		

Sedges

	No	ID
Leptocarpus canus ✓		
Baumea juncea ✓		
Lepid. longitudinale ✓		
29/10/93		
Stylid inund ✓		
X Myriophyllum echinatum ✓		
X ✱ Hirea corymbosa ✓		
Phyllyglis aff rara ✓		
X Centrolepis (single awn) polygyna		
~~Pomaderris~~		
✱ Lotus angustissimus (shrub) ✓		

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA:

QUADRAT No. Ahern 08 VEGETATION TYPE Melaleuca Shrubland

DATE TRIP 9/7/93 BOTANIST BJK / NG / MC

VOLUNTEERS / /

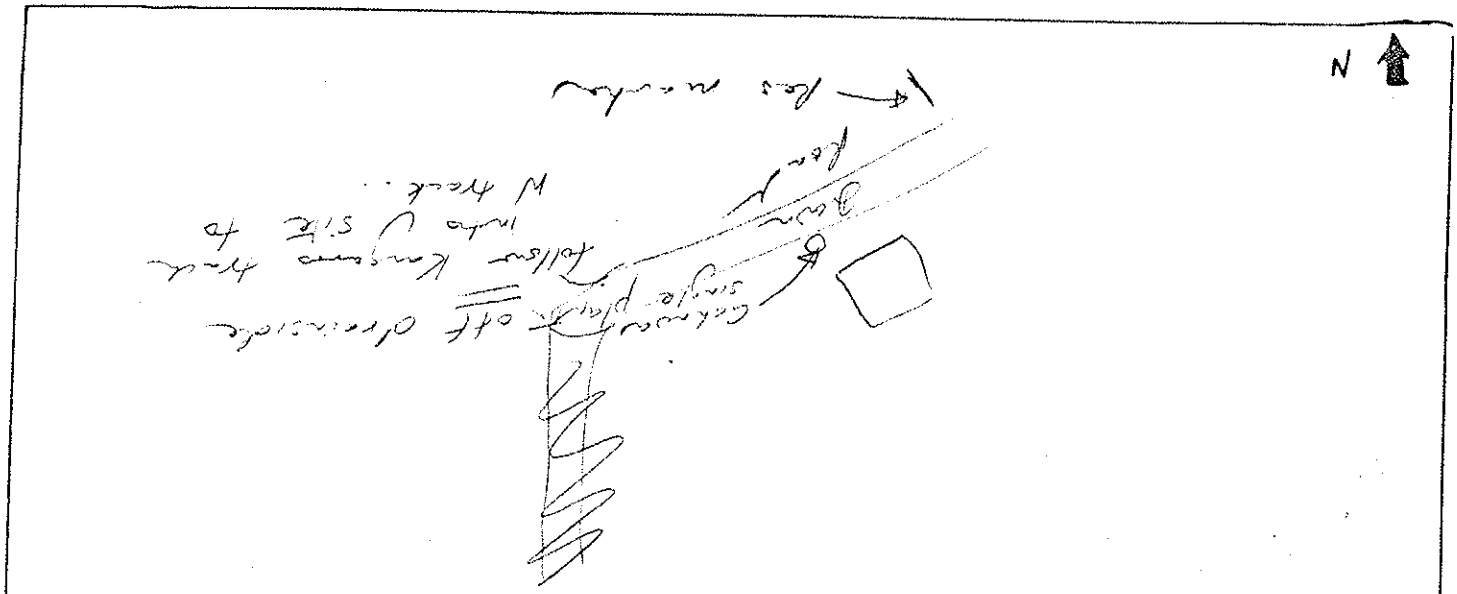
DATE TRIP 29/10/93 BOTANIST BJK / NG / MC

VOLUNTEERS / /

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

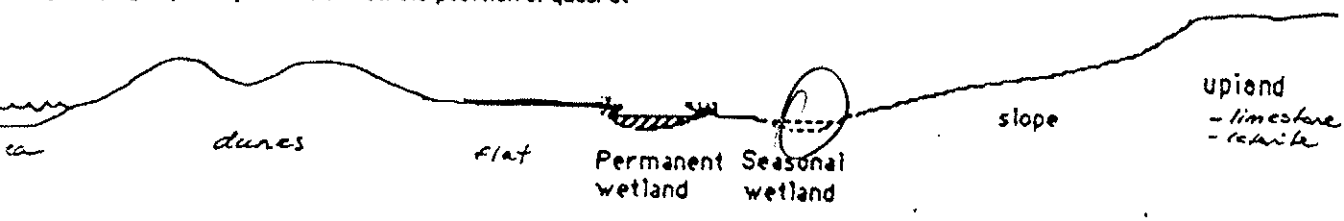
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
	32° 38' 37.6"	115° 46' 52.1"
		Altitude 5m ± 100m

d. Photograph Photographer's name NG Photo No 017 (29/10)

e. Topographic position - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope (flat) gentle steep

Aspect N NE E SE S SW W NW

Surface soil brown clay EC = 0.4

Sub-surface soil ll Wells & Hksp = V8/P2 in joining area.

Drainage well mod (poor)

Wet All year (winter/spring)

Litter (% cover) 10%

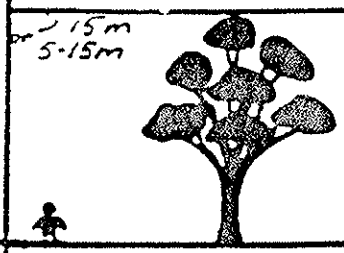
% Bare ground 0%

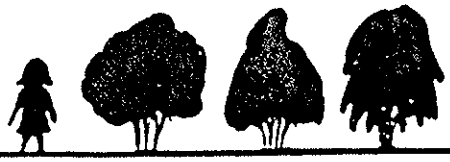
P.T.O.

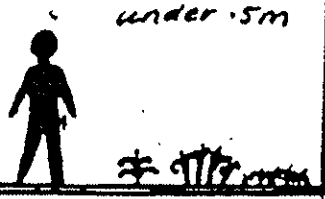
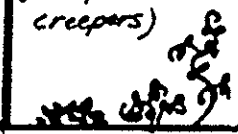
3. VEGETATION STRUCTURE AND COVER. Record appropriate cover class

Cover Class - percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%

LIFE FORM	TREES		MALLEES		
	~ 15m or 5-15m 	under 5m 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 	15m 10m 5m
COVER CLASS (%)	>15m 5-15m				
Dominant Species					

LIFE FORM	SHRUBS				SHRUBS	
	use the height classes indicated					
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m - .5m 	under 5m 	3m 2m 1m Height (metres)
COVER CLASS (%)		>70%				
Dominant Species		Mel vim Mel unc				

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES		
	under .5m 	under .5m (except creepers) 	over .5m 	under 5m 	3.0m 1.5m 1.0m .5m
COVER CLASS (%)		2-10%	10-20%		
Dominant Species		mixed	Lep ~~Zlowry~~ vag ei		

4. VEGETATION CONDITION

PRISTINE	
EXCELLENT	)
VERY GOOD	
GOOD	
DEGRADED	

Comments

~~RMA~~

Weeds associated with soil mound

1. SPECIES PRESENCE
?/?/93

QUADRAT No.
AUSTB 08

- through the vegetation, start with the tallest stratum, i.e. trees
- within each stratum try to record the **most common species first** and the most uncommon last.
- as each species is collected **label** it with a numbered tag and use this number on your recording sheet
- indicate if the species is in **flower**

Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIEN SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

Trees

Trees	No	ID

Mallees

Mallees	No	ID

SHRUBS

	SHRUBS	No	ID
	Mel viminea ✓		
	Mel uncinata ✓		
	Mel leptoclada ✓		
	Mel calygpalada ✓		
	Acacia lasio. var brev ✓	(VP)	X
	Melaleuca lateriflora ✓		
	[illegible] virgata ✓	X	
	29/10/93		
	* [illegible] arvensis ✓		
	Polygonopholus multi ✓		
	[illegible] beladada ✓	X	
	Selaginella ✓	X	
	* [illegible] maxima ✓		
X	Vellia trinervis = ✓		
	[illegible] pulchella [illegible] ste]		
	Hoxeris humifusus ✓	X	
	Schoenus maj		
	Melaleuca lateritia		
X	Phyllodella (small) pygmaea		
X *	[illegible] mix (stale)	X	
	Chamaescilla corym		
	Lichasoma paradoxa		
*	[illegible]		
	[illegible] bracteata		
X	[illegible] ~~[illegible]~~ X muticea		
	Dampiera linearis		
	Hydrocotyle fine 'calyptra'	X	

SHRUBS

	SHRUBS	No	ID
	?/?/93		
X	Stylid calo (small) = ?mimeticum	(VSP)	
	Tricoryne [illegible] ✓		
	[illegible] furry ✓		
	[illegible] crest ✓	X	
	[illegible] geant ✓	X	VSP
	[illegible] ✓	X	
X	[illegible] = Aphelia ✓		X
	[illegible]		
	[illegible] innund. ✓		
X	* Aira cary ✓	X	
	Levenhookia pusilla ✓	X	
	* Cicendia fili ✓	X	
	Juncus capitatus ✓	X	

Bunch Grasses

	Bunch Grasses	No	ID
X	* Vulpia bromi ✓	X	·
	* Briza minor ✓	X	

Herbs

	Herbs	No	ID
	* Lotus suaveolens (sterile)		VSP
	Phylloglossum drum ✓		
	✓ [illegible] ✓		
	alata ✓		
X	Hydrocotyle ~~[illegible] tetra~~		
	Trachymene ✓		
	Drosera menz. ssp menz ✓	X	
	* Anagalis arv. ✓		
	~~[illegible]~~		
	Levenhookia pusilla ✓	X	
	Drosera glanduligera ✓		
	Cassytha sp racemosa	X	(VSP)
	~~[illegible]~~		
	Microtis sp. 29/10 ✓		
	Platysace (sterile) nana 29/10	X	
	Phragmophyllum [illegible] sterile ✓		
X	* Trifolium dubium 29/10 ✓		

Herbs

	Herbs	No	ID
	Drosera menz ~~[illegible]~~ ssp pen ✓		
	Dampiera linearis ✓		
	~~Platostyla~~		
	Thysanotus (sterile) ✓		
	~~Chamaescilla~~		
	* Monadenia bracteata ✓		
	Caladenia flava ✓		
	Drosera ~~[illegible]~~ / rosulata.	VSP	
	* Conyza	✓	
X	[?Goodotheca] = Vellia trinervis ✓		
	Brachycome bel. ✓	X	
	29/10/93		
	~~Hydrocotyle calyptra~~	X	
X	Isolepis cernua ✓	>	
X	Lepyrodia glauca ✓		(VSP)

Sedges

	Sedges	No	ID
X	Leptocarpus (? co-ors) royci ✓	(VSP)	
X	Lepidosperma ~~fang~~ long f. ✓ (VSP) 29/10		
	29/10/93		
X	Schoenus ✓ (sp tufted) discifer		(VSP)
	Cyperus tenellus ✓	X	(VSP)
	Caladenia ✓	(VSP)	
	Drosera macrantha ssp	(VSP)	
	Thelymitra 'Apogeet [illegible]' sterile ✓		
	Astroloma sp - sterile ✓	X	
	AR		
	Hemigenia microphylla ✓		
	Hakea varia sterile ✓		

Dates beside entries: VSP 29/10

CONTACT DR N. GIBSON CALM WOODVALE for further information.
Flora list for C50 (extracted from Swan Coastal Plain database, Aust sites 1-8, Carab sites 1-3 2/1995).

Department of Environmental Protection System 6 Update: Site Based Flora List C50 Peel Inlet
(extracted from the CALM Swan Coastal Plain database, Aust sites 1-8, Carab sites 1-3, 2/95)

Anthericaceae
- Borya scirpoidea
- Caesia micrantha "large swamp form" scps (BJK&NG 094)
- Caesia occidentalis
- Chamaescilla corymbosa
- Sowerbaea laxiflora
- Thysanotus arbuscula
- Thysanotus manglesianus
- Thysanotus multiflorus
- Thysanotus patersonii
- Thysanotus sp. manglesianus/patersonii scps
- Thysanotus sp. scps
- Thysanotus thyrsoideus
- Tricoryne elatior

Apiaceae
- Apium annuum
- Daucus glochidiatus
- Eryngium pinnatifidum subsp. "palustre" scps map
- Homalosciadium homalocarpum
- Hydrocotyle alata
- Hydrocotyle callicarpa
- Hydrocotyle diantha
- Hydrocotyle sp. scps
- Trachymene pilosa
- Xanthosia huegelii

Asphodelaceae
- Bulbine semibarbata

Asteraceae
- Angianthus preissianus
- * Arctotheca calendula
- Blennospora aff. drummondii (golden bracts) scps bjk&ng 20
- Brachyscome bellidioides
- * Conyza albida
- Cotula coronopifolia
- Cotula cotuloides
- Gnephosis tenuissima - drummondii complex
- * Hypochaeris glabra
- Millotia tenuifolia
- Myriocephalus helichrysoides
- Podotheca angustifolia
- Podotheca sp. scps
- Pogonolepis stricta
- Quinetia urvillei
- Siloxerus humifusus
- * Sonchus oleraceus
- * Urospermum picroides
- * Ursinia anthemoides
- Waitzia citrina

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Flora list for C50 (extracted from Swan Coastal Plain database, Aust sites 1-8, Carab sites 1-3 2/1995).

Campanulaceae
Wahlenbergia preissii

Caryophyllaceae
* Sagina apetala

Casuarinaceae
Casuarina obesa

Centrolepidaceae
Aphelia cyperoides

Centrolepidaceae
Brizula nutans
Centrolepis alepyroides
Centrolepis aristata
Centrolepis drummondiana
Centrolepis glabra
Centrolepis mutica
Centrolepis pilosa
Centrolepis polygyna

Chenopodiaceae
Atriplex hypoleuca
Halosarcia lepidosperma
Sarcocornia quinqueflora

Colchicaceae
Burchardia umbellata

Convolvulaceae
Wilsonia backhousei

Crassulaceae
Crassula colorata
* Crassula natans

Cupressaceae
Actinostrobus pyramidalis

Cyperaceae
Baumea juncea
* Cyperus tenellus
Gahnia trifida
Isolepis cernua
* Isolepis marginata
Isolepis oldfieldiana
Isolepis stellata
Lepidosperma "coastal terete" scps (BJK&NG 231)
Lepidosperma eastern terete scps (BJK&NG 232)
Lepidosperma longitudinale
Lepidosperma squamatum
Schoenus discifer
Schoenus natans
Schoenus nitens
Schoenus odontocarpus
Schoenus rigens

Schoenus sculptus
Schoenus sp. 2 (GJK 5739) scps
Schoenus subfascicularis

Dasypogonaceae
Dasypogon bromeliifolius
Lomandra caespitosa
Lomandra hermaphrodita
Lomandra nigricans
Lomandra preissii
Lomandra suaveolens

Dilleniaceae
Hibbertia hypericoides
Hibbertia racemosa

Droseraceae
Drosera erythrorhiza
Drosera gigantea
Drosera glanduligera
Drosera macrantha
Drosera menziesii subsp. menziesii
Drosera menziesii subsp. penicillaris
Drosera neesii "pink southern form" scps (BJK&NG 096)
Drosera rosulata
Drosera stolonifera

Epacridaceae
Astroloma pallidum
Astroloma sp. scps
Brachyloma preissii

Euphorbiaceae
Poranthera microphylla

Gentianaceae
* Cicendia filiformis

Geraniaceae
Pelargonium sp. scps

Goodeniaceae
Dampiera linearis
Goodenia micrantha
Velleia trinervis

Haemodoraceae
Conostylis aculeata
Conostylis juncea
Haemodorum spicatum
Phlebocarya ciliata
Tribonanthes violacea

Haloragaceae
Myriophyllum echinatum
Myriophyllum sp. scps

Flora list for C50 (extracted from Swan Coastal Plain database, Aust sites 1-8, Carab sites 1-3 2/1995).

Hydatellaceae
Hydatella dioica
Trithuria bibracteata

Hypoxidaceae
Hypoxis glabella

Iridaceae
* Gladiolus caryophyllaceus
* Gladiolus sp. scps
Patersonia occidentalis
* Romulea flava
* Romulea rosea

Juncaceae
* Juncus bufonius
* Juncus capitatus
Juncus kraussii

Juncaginaceae
Triglochin calcitrapum
Triglochin centrocarpum
Triglochin minutissimum
Triglochin mucronatum
Triglochin procerum
Triglochin sp. scps

Lamiaceae
Hemiandra pungens
Hemigenia microphylla

Lauraceae
Cassytha racemosa

Lentibulariaceae
Polypompholyx multifida
Utricularia menziesii
Utricularia violacea

Lobeliaceae
Lobelia alata
* Monopsis debilis

Loganiaceae
Mitrasacme paradoxa

Lycopodiaceae
Phylloglossum drummondii

Lythraceae
* Lythrum hyssopifolia

Menyanthaceae
Villarsia albiflora
Villarsia capitata
Villarsia submersa

CONTACT DR N. GIBSON CALM WOODVALE for further information.
Flora list for C50 (extracted from Swan Coastal Plain database, Aust sites 1-8, Carab sites 1-3 2/1995).

Mimosaceae
- Acacia lasiocarpa var. bracteolata
- Acacia saligna

Myrtaceae
- Astartea aff. fascicularis sthcst
- Calothamnus lateralis
- Eucalyptus marginata
- Eucalyptus rudis
- Kunzea ericifolia
- Melaleuca cuticularis
- Melaleuca incana
- Melaleuca lateriflora var. acutifolia FPR
- Melaleuca lateritia
- Melaleuca leptoclada
- Melaleuca rhaphiophylla
- Melaleuca thymoides
- Melaleuca uncinata
- Melaleuca viminea
- Pericalymma ellipticum

Orchidaceae
- Caladenia flava
- Caladenia menziesii
- Caladenia paludosa Hopper & AP Brown scps
- Caladenia radiata
- Caladenia sp. scps
- Lyperanthus nigricans
- Microtis media warr subsp. media
- Microtis sp. scps
- * Monadenia bracteata
- Prasophyllum sp. scps
- Pterostylis aff. nana scps
- Pterostylis sanguinea
- Pterostylis vittata
- Thelymitra aff. pauciflora scps
- Thelymitra sp. scps

Oxalidaceae
- Oxalis perennans

Papilionaceae
- Bossiaea eriocarpa
- Dillwynia dillwynioides
- Eutaxia virgata
- Gompholobium tomentosum
- Jacksonia furcellata
- Jacksonia sp.Busselton(G.J.Keighery 4482) PN
- Jacksonia sternbergiana
- Kennedia prostrata
- * Lotus angustissimus
- * Lotus sp. scps
- * Lotus suaveolens
- * Trifolium dubium

Philydraceae
- Philydrella pygmaea

Phormiaceae
Dianella revoluta

Pittosporaceae
Billardiera variifolia

Poaceae
Agrostis avenacea
* Aira caryophyllea
Amphipogon debilis
* Briza maxima
* Briza minor
* Bromus diandrus
Cynodon dactylon
Danthonia occidentalis
* Ehrharta calycina
* Ehrharta longiflora
* Hainardia cylindrica
* Holcus setiger
* Hordeum leporinum
Microlaena stipoides
* Polypogon monspeliensis
Polypogon tenellus
Sporobolus virginicus
Stipa compressa
* Vulpia bromoides
* Vulpia myuros
* Vulpia sp. scps

Polygalaceae
Comesperma calymega
Comesperma virgatum

Polygonaceae
* Rumex brownii

Portulacaceae
Calandrinia granulifera
Calandrinia sp. scps

Primulaceae
* Anagallis arvensis
Samolus junceus
Samolus repens

Proteaceae
Banksia attenuata
Banksia ilicifolia
Hakea varia
Petrophile linearis
Stirlingia latifolia

Restionaceae
Hypolaena exsulca
Leptocarpus aristatus
Leptocarpus canus

Leptocarpus coangustatus
Leptocarpus roycei ms sthcst
Lepyrodia glauca
Loxocarya fasciculata
Loxocarya pubescens
Lyginia barbata
Restio leptocarpoides

Rubiaceae
Opercularia hispidula

Santalaceae
Exocarpos sparteus

Scrophulariaceae
* Bellardia trixago
Glossostigma diandrum
Gratiola peruviana
* Veronica arvensis
Veronica sp. scps

Selaginellaceae
Selaginella gracillima

Stylidiaceae
Levenhookia pusilla
Stylidium brunonianum
Stylidium calcaratum
Stylidium dichotomum
Stylidium ecorne
Stylidium inundatum
Stylidium longitubum
Stylidium mimeticum
Stylidium periscelianthum
Stylidium pulchellum
Stylidium roseo-alatum
Stylidium roseonanum
Stylidium schoenoides
Stylidium sp. scps

Tremandraceae
Tetratheca hirsuta "glabrous" scps

Violaceae
Hybanthus floribundus

Xanthorrhoeaceae
Xanthorrhoea preissii

Zamiaceae
Macrozamia riedlei

R. A. O. U. T R A C K I N G D A T A B A S E

11/05/96 PARK SIGHTINGS REPORT Page No. 1

Peel Inlet (C50)

ORDER:	REF:	BIRD NAME	NO. SIGHTINGS
0007	0009	Stubble Quail	1
0022	0203	Black Swan	10
0025	0207	Australian Shelduck	13
0028	0202	Australian Wood Duck	3
0032	0208	Pacific Black Duck	13
00[illegible]	0211	Grey Teal	12
00[illegible]	0210	Chestnut Teal	1
0041	0061	Australasian Grebe	2
0042	0062	Hoary-headed Grebe	2
0092	0069	Wedge-tailed Shearwater	1
0124	0104	Australasian Gannet	1
0128	0101	Darter	12
0129	0100	Little Pied Cormorant	13
0131	0099	Pied Cormorant	7
0132	0097	Little Black Cormorant	10
0133	0096	Great Cormorant	8
0135	0106	Australian Pelican	13
0139	0188	White-faced Heron	13
0140	0185	Little Egret	12
0145	0187	Great Egret	13
0150	0192	Nankeen Night Heron	1
0157	0179	Australian White Ibis	9
0160	0182	Yellow-billed Spoonbill	6
0163	0241	Osprey	5
0165	0232	Black-shouldered Kite	4
0170	0228	Whistling Kite 4	7
[illegible]74	0219	Swamp Harrier	4
0187	0240	Nankeen Kestrel	7
0221	0152	Black-tailed Godwit 2	2
0223	0153	Bar-tailed Godwit 2	8
0225	0150	Whimbrel 2	6
0226	0149	Eastern Curlew 2	7
0231	0158	Common Greenshank 2	12
0235	0157	Common Sandpiper 2	2
0236	0155	Grey-tailed Tattler 2	2
0238	0129	Ruddy Turnstone 2	2
0240	0165	Great Knot 2	5
0241	0164	Red Knot 2	2
0244	0162	Red-necked Stint 2	8
0249	0163	Sharp-tailed Sandpiper 2	7
0251	0161	Curlew Sandpiper 2	6
0255	0934	Ruff	1
0265	0130	Pied Oystercatcher	6

0267	0146	Black-winged Stilt	10
0268	0147	Banded Stilt	4
0269	0148	Red-necked Avocet	6
0271	0136	Grey Plover	11
0275	0143	Red-capped Plover	8
0278	0141	Greater Sand Plover	4
0282	0144	Black-fronted Dotterel	1
0283	0138	Hooded Plover	1
0294	0126	Pacific Gull	1
0297	0125	Silver Gull	13
0302	0111	Gull-billed Tern	3
0303	0112	Caspian Tern	13
0305	0115	Crested Tern	11
0306	0113	Roseate Tern	1
0308	0953	Common Tern	2
0313	0118	Fairy Tern	6
0316	0110	Whiskered Tern	1
0324	0957	Rock Dove	5
0326	0988	Laughing Turtle-Dove	8
0330	0034	Common Bronzewing	2
0356A	1266	White-tailed Black-Cockatoo	1
0359	0273	Galah	4
0378	0278	Regent Parrot	2
0385	0289	Western Rosella	1
0386	0294	Australian Ringneck	10
0387	0290	Red-capped Parrot	7
0446	0322	Laughing Kookaburra	6
0451	0326	Sacred Kingfisher	3
0453	0329	Rainbow Bee-eater	3
0471	0532	Splendid Fairy-wren	8
0478	0526	Southern Emu-wren	1
0492	0976	Striated Pardalote	4
0512	0465	Weebill	1
0517	0463	Western Gerygone	5
0524	0476	Inland Thornbill	3
0531	0486	Yellow-rumped Thornbill	5
0537	0638	Red Wattlebird	10
0561	0608	Singing Honeyeater	9
0583	0597	Brown Honeyeater	7
0587	0631	New Holland Honeyeater	1
0607	0448	White-fronted Chat	4
0644	0549	Varied Sittella	1
0650	0398	Golden Whistler	1
0653	0401	Rufous Whistler	5
0671	0415	Magpie-Lark	12
0673	0361	Grey Fantail	7
0676	0364	Willie Wagtail	10
0678	0424	Black-faced Cuckoo-shrike	9
0691	0546	Black-faced Woodswallow	1
0695	0702	Grey Butcherbird	8
0698	0705	Australian Magpie	11

0701	0697	Grey Currawong	4	1
0706	0930	Australian Raven		11
0725	0647	Richard's Pipit		10
0760	0564	Mistletoebird		1
0763	0357	Welcome Swallow		12
0765	0359	Tree Martin		8
0772	0522	Little Grassbird		4
0781	0574	Silvereye		8

*** END OF REPORT ***

(1) 1
(2) 16
(3) 8
(4) 5

SUMMARY REPORT

TOTAL BIRDS SIGHTED	:	102
TOTAL NUMBER OF CARDS	:	13

*** END OF SUMMARY ***

System 6 Update - Floristic Community Type Mapping Information DRAFT ONLY

AREA INFORMATION

System 6 Area (C or M) or Update Area (Update) C50 Creeping Islands

Conservation Area	
Nature Reserve	creeping Island & channel Island
Reserve No	C 8185
National Park	
Reserve No	
Local Government	
Reserve No	
Other	private
Proposed Conservation Areas	
Local Government	
Reserve No	
Other	

Conservation Area	
Nature Reserve	
Reserve No	
National Park	
Reserve No	
Local Government	
Reserve No	
Other	

TOTAL AREA 302.188 + 9.25 + 14.25

Bushland Area	Sys 6 325.688	hectares	CALM 86.25
Completely Degraded	3.5 ha		1.25 ha

AREA MAPPED FLORISTIC UNITS

Units	Site (Condition) Code	Bound	boundaries Sys 6 Area (ha)	boundaries CALM Area (ha)
	NO SITES			
estuarine 'a'	? samphires		92.563	43.5
mud			19.75	19.75
estuarine 'b'	? Las obesa ? Mel cuticularis		19.375	13.5
H_2O			190.5	9.5

Boundaries determined by use of

aerial photograph	Metro Street Directory run 55 5131, 6 5035 5/1/91
orthophoto	2032 IV NE Aug 1991
vegetation map	
soil map	

System 6 Update - Floristic Community Type Mapping Information DRAFT ONLY

AREA INFORMATION

System 6 Area (C or M) or Update Area (Update) C50 - South.

Conservation Area	
Nature Reserve	wa wildlife Auth.
Reserve No	(7502, 2707) B4990, B24036, C28087 (estuary)
~~National Park~~	not vested
Reserve No	
Local Government	
Reserve No	
Other	Private
Proposed Conservation Areas	
Local Government	
Reserve No	
Other	

Conservation Area	
Nature Reserve	
Reserve No	
National Park	
Reserve No	
Local Government	
Reserve No	
Other	

TOTAL AREA

Syst 6/CALM

Bushland Area	1492.5 / 817.562	hectares
Completely Degraded	375.843 / 40.218	
grazed + weed infested	446.429 / 103.063	
	eutrophicated, weedy, grazing, freq. fire	

AREA MAPPED FLORISTIC UNITS

				Syst 6 Boundaries	CALM
Units	Site (Condition)	Code	Bound	Area (ha)	Area (ha)
5	AUST 04 (2)	05 (1.5) 06 (2.5)		292.717	297.342
7	AUST 01 (1)	02 (1.5) 07 (2)		186.563	185.88
	08 (1.5)	CARAB 02 (2)			
11	AUST 03 (2)	CARABOB (2.5)		100.625	100.125
15	CARABO1 (2.5)			0.5	0.5
721a				89.813	89.813
estuary				1686.66	1686.66

Boundaries determined by use of

aerial photograph	MRA Rund5 5Dec 91 MRA Rund6
orthophoto	2032 1 NW, SW, 1 SE
vegetation map	
soil map	

SOSS 5/11/91

Not for distribution

FLORA OF AUSTIN BAY NATURE RESERVE . GJ Keighery JULY 2003. Data derived from Keighery 1999 Conservation Status of Vascular Flora of the Southern Swan Coastal Plain

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D

FLORA OF AUSTIN BAY NATURE RESERVE.

Key

Column 1 **Family group** (listed alphabetically)

Column 2 **Plant Taxa** (species, sub-species and varieties)
(listed alphabetically in family groups which are also listed alphabetically)
* Weed species
ms manuscript name (shown after the name)

Column 3&4 **Vegetation Unit**
Bch = beach flats and dunes
clyp =clayflats
WM = wetland mosaic areas dominated by Melaleuca species
sand = Bushland upland areas dominated by Tuart, Actinostrobus, Banksia
j/m = Bushland upland areas dominated by Tuart, Banksia and Jarrah, Marri
D = Disturbed areas

Family group	Plant Taxon	Vegetation Unit					
		bch	clyp	WM	sand	j/m	D
Aizoaceae							
*	Carpobrotus aequilaterus	•				•	
*	Carpobrotus edulis	•					
	Carpobrotus virescens	•					
	Macarthuria australis				•		
*	Tetragonia decumbens	•			•		
Amaryllidaceae							
*	Amaryllis belladonna	•					•
*	Narcissus tazetta						•
Amaranthaceae							
	Alternanthera nodiflora			•			•
*	Amaranthus lividus						•
	Ptilotus manglesii	•					
	Ptilotus drummondii	•					
Anthericaceae							
	Arthropodium capillipes				•	•	
	Arthropodium preissii		•	•			
	Borya scirpoidea			•		•	
	Caesia micrantha			•		•	
	Caesia occidentalis			•			
	Chamaescilla corymbosa				•	•	
	Chamaescilla gibsonii		•				
	Corynotheca micrantha	•			•		
	Laxmannia squarrosa					•	
	Sowerbaea laxiflora					•	
	Caesia micrantha			•		•	
	Thysanotus arbuscular				•	•	

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
	Thysanotus manglesii				•	•	
	Thysanotus patersonii				•	•	
	Thysanotus multiflorus	•	•		•		
	Thysanotus thyrsoideus				•	•	
	Tricoryne elatior	•			•	•	
Apiaceae							
	Actinotus leucocephalus				•	•	
	Apium annuum	•	•	•			
	Apium prostratum					•	
	Centella cordifolia			•		•	
	Daucus glochidiatus	•				•	
	Eryngium pinnatifidum subsp. pinnatifidum					•	
	Eryngium pinnatifidum subsp. palustre ms		•				
*	Foeniculum vulgare						•
	Homalosciadium homalocarpum					•	
	Hydrocotyle alata		•			•	
	Hydrocotyle callicarpa	•					
	Hydrocotyle diantha			•		•	
	Hydrocotyle hispidula		•			•	
	Platysace compressa					•	
	Schoenolaena juncea		•	•		•	
	Trachymene coerulea		•		•		
	Trachymene pilosa				•	•	
	Xanthosia huegelii					•	
Araceae							
*	Zantedeschia aethiopica			•			•
Ascelpidaceae							
*	Gomphocarpus fruticosus						•
Asparagaceae							
*	Asparagus asparagoides	•					•
Asphodelaceae							
*	Asphodelus fistulosus	•					
	Bulbine semibarbata	•	•				
Asteraceae							
	Angianthus drummondii		•				
	Angianthus preissianus		•				
*	Arctotheca calendula				•	•	•
*	Aster subulatus			•			•
	Asteridea pulverulenta				•	•	
	Blennospora doliiformis		•				
	Brachyscome bellidioides		•	•			
*	Carduus pycnocephalus	•			•		•
*	Centaurium melitensis	•				•	•
*	Cirsium vulgare	•	•			•	•
*	Conyza albida	•			•		•
	Cotula coronopifolia			•			•
	Cotula cotuloides		•	•			•

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
*	Cotula turbinata	•					•
*	Dittrichia graveolens	•					•
	Gnaphalium gymnocephalum					•	
	Gnephosis drummondii		•				
	Hyalosperma cotula		•				
*	Hypochaeris glabra	•	•	•		•	•
	Ixiolaena viscosa			•	•	•	
	Lagenifera huegelii			•	•	•	
	Millotia tenuifolia				•	•	
	Myriocephalus helichrysoides		•	•			
	Olearia axillaris	•					
	Podolepis gracilis (Swamp form, GK 13126)			•		•	
	Podotheca angustifolia	•	•				
	Podotheca gnaphaloides		•			•	
	Pogonolepis stricta		•				
*	Pseudognaphalium luteoalbum	•		•			•
	Quinetia urvillei				•	•	
	Rutidosis multiflora				•		
	Senecio glomeratus			•		•	
	Senecio quadridentatus			•	•	•	
	Senecio lautus	•				•	
	Siloxerus humifusus			•			
*	Sonchus asper	•		•			•
	Sonchus hydrophilous				•		
*	Sonchus oleraceus	•				•	•
*	Ursinia anthemoides	•			•	•	•
*	Urospermum picroides	•					
	Waitzia citrina					•	
	Waitzia suaveolens					•	
*	Vellereophyton dealbatum	•					•
Brassicaceae							
*	Brassica tournefortii	•					•
*	Cakile maritima	•					•
*	Heliophila pusilla	•			•		•
	Menkea australis	•					
*	Raphanus raphanistrum	•					•
	Stenopetalum gracile					•	
Campanulaceae							
*	Wahlenbergia capensis				•		•
	Wahlenbergia preissii			•	•	•	
Callitrichaceae							
*	Callitriche stagnalis						•
Caryophyllaceae							
*	Corrigiola littoralis	•					•
*	Cerastium glomeratum	•					•
*	Petrorhagia velutina	•				•	•
	Brachyscome bellidioides		•	•			
*	Sagina apetala	•	•				•
*	Spergula salina		•				•
*	Stellaria media	•					•

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
Casuarinaceae							
	Allocasuarina humilis					•	
	Casuarina obesa	•	•				
Centrolepidaceae							
	Aphelia brizula		•				
	Aphelia cyperoides			•		•	
	Centrolepis alepryoides		•	•			
	Centrolepis aristata			•	•		
	Centrolepis drummondiana				•	•	
	Centrolepis glabra		•				
	Centrolepis mutica		•	•			
	Centrolepis pilosa			•		•	
	Centrolepis polygyna	•	•				
	Trithuria bibracteata		•				
	Trithuria submersa		•				
	Hydatella ?dioica		•				
Chenopodiaceae							
	Atriplex hypoleuca	•					
	Atriplex isatidea	•					
*	Atriplex prostrata	•	•				
*	Chenopodium ambrosioides	•					•
*	Chenopodium murale	•					
	Halosarcia indica	•	•				
	Halosarcia lepidosperma	•	•				
	Halosarcia leptoclada		•				
	Rhagodia baccata	•	•				
	Sarcocornia quinqueflora	•	•				
	Suaeda australis	•	•				
Colchicaceae							
	Burchardia multiflora			•			
	Burchardia congesta (= Burchardia umbellata)		•		•	•	
	Wurmbea dioica		•				
Commelinaceae							
	Cartonema philydroides				•		
Convolvulaceae							
	Wilsonia backhousei		•				
Crassulaceae							
*	Crassula alata						•
	Crassula colorata				•		
*	Crassula decumbens	•					•
*	Crassula natans			•			
	Crassula pedicellosa			•	•		
Cupressaceae							

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
	Actinostrobus pyramidalis			•			
Cyperaceae							
	Baumea articulata			•			
	Baumea juncea	•	•	•			
	Baumea laxa			•			
	Baumea rubiginosa			•			
	Bolboschoenus caldwellii	•					•
	Carex preissii					•	
	Chorizandra enodis		•	•			
	Cyathochaeta avenacea					•	
*	Cyperus congestus						•
*	Cyperus eragrostis						•
*	Cyperus tenellus	•		•			
	Gahnia trifida		•	•			
	Isolepis cernua	•					
	Isolepis cyperoides		•				
	Isolepis marginata			•		•	
	Isolepis oldfieldiana			•			
	Isolepis nodosa	•		•			
	Isolepis producta		•	•			
*	Isolepis prolifera						•
	Isolepis stellata		•	•			
	Lepidosperma longitudinale	•		•			
	Lepidosperma squamatum		•		•	•	
	Lepidosperma tenue					•	
	Mesomelaena stygia				•	•	
	Mesomelaena tetragona					•	
	Schoenus brevifolius			•			
	Schoenus curvifolius		•		•	•	
	Schoenus efoliatus			•		•	
	Schoenus maschalinus		•				
	Schoenus natans		•				
	Schoenus nitens		•				
	Schoenus plumosus		•				
	Schoenus rigens			•			
	Schoenus sculptus		•				
	Schoenus subfasicularis			•			
	Schoenus tenellus		•				
	Schoenus varicellae		•				
	Schoenus sp Waroona (GK 12235)		•				
	Schoenoplectus validus	•					•
Dasypogonaceae							
	Calectasia nagarra					•	
	Dasypogon bromeliifolius		•		•	•	
	Lomandra caespitosa					•	
	Lomandra hermaphrodita				•		
	Lomandra nigricans				•		
	Lomandra preissii					•	
	Lomandra purpurea					•	
	Lomandra suaveolens				•	•	
Dennstaedtiaceae							

FLORA OF AUSTIN BAY NATURE RESERVE . GJ Keighery JULY 2003. Data derived from Keighery 1999 Conservation Status of Vascular Flora of the Southern Swan Coastal Plain

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
	Pteridium esculentum					•	
Dilleniaceae							
	Hibbertia hypericoides				•	•	
	Hibbertia racemosa					•	
	Hibbertia stellaris			•			
	Hibbertia vaginata					•	
Droseraceae							
	Drosera erythrorhiza				•	•	
	Drosera gigantea			•			
	Drosera glanduligera			•	•	•	
	Drosera macrantha			•			
	Drosera menziesii subsp. menziesii			•		•	
	Drosera menziesii subsp. penicillaris			•		•	
	Drosera neesii			•			
	Drosera nitidula				•		
	Drosera rostulata			•			
	Drosera stolonifera			•		•	
Epacridaceae							
	Astroloma ciliatum				•	•	
	Astroloma pallidum					•	
	Brachyloma preissii				•	•	
	Conostephium pendulum				•		
	Conostephium preissii				•		
	Leucopogon propinquus				•		
Euphorbiaceae							
*	Euphorbia peplus	•					•
	Monotaxis occidentalis						•
	Phyllanthus calycinus			•	•	•	
	Poranthera microphylla				•		
Frankeniaceae							
	Frankenia pauciflora	•				•	•
Fumariaceae							
*	Fumaria capreolata	•				•	•
*	Fumaria muralis	•					•
Gentianaceae							
*	Cicendia filiformis			•			
*	Centaurium erythraea	•	•				
Geraniaceae							
*	Erodium botrys	•					•
*	Erodium cicutarium	•					
*	Geranium molle			•			
	Geranium retrorsum	•				•	
*	Pelargonium capitatum	•					•
	Pelargonium littorale	•				•	

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
Goodeniaceae							
	Anthotium junciforme		•	•			
	Dampiera linearis			•	•	•	
	Dampiera trigona			•			
	Goodenia micrantha		•	•			
	Goodenia pulchella		•	•			
	Lechenaultia expansa				•		
	Scaevola crassifolia	•					
	Scaevola phlebopetala			•	•	•	
	Velleia trinervis			•		•	
Haemodoraceae							
	Anigozanthos humilis					•	
	Anigozanthos manglesii					•	
	Anigozanthos viridis			•		•	
	Conostylis aculeata				•	•	
	Conostylis juncea					•	
	Conostylis setigera					•	
	Haemodorum brevisepalum			•			
	Haemodorum paniculatum				•		
	Haemodorum sparsiflorum		•	•			
	Haemodorum spicatum			•	•	•	
	Phlebocarya ciliata				•		
	Tribonanthes australis		•	•			
	Tribonanthes uniflora		•				
	Tribonanthes violacea		•				
Haloragaceae							
	Gonocarpus nodulosus			•			
	Halorhagis tenuiflora		•				
	Myriophyllum echinatum		•				
	Myriophyllum limnophilum		•				
Hypoxidaceae							
	Hypoxis glabella			•		•	
	Hypoxis occidentalis		•	•			
Iridaceae							
*	Chasmanthe floribunda						•
*	Gladiolus caryophyllaceus	•			•		•
*	Gladiolus undulatus	•					•
	Orthrosanthus laxus					•	
	Patersonia occidentalis				•		
	Patersonia occidentalis (Swamp Form)			•			
*	Romulea flava	•		•		•	
*	Romulea rosea	•	•	•		•	
*	Sparaxis bulbifera					•	•
*	Watsonia bulbillifera	•				•	•
Isoetaceae							
	Isoetes drummondii		•				
Juncaceae							
*	Juncus bufonius	•	•	•		•	•

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
	Juncus caespiticius		•				•
*	Juncus capitatus	•	•	•			•
*	Juncus kraussii	•	•				
	Juncus pallidus			•			
	Juncus pauciflorus			•			
	Luzula meridionalis					•	
Juncaginaceae							
	Triglochin lineare		•	•			
	Triglochin minutissima	•	•			•	
	Triglochin mucronata	•	•			•	
	Triglochin muelleri subsp. recurvum		•				
	Triglochin striata	•				•	
	Triglochin trichophora	•	•				
Lamiaceae							
	Hemiandra pungens			•			
	Hemigenia microphylla		•				
*	Stachys arvensis	•					•
Lauraceae							
	Cassytha racemosa		•		•		
Lemnaceae							
	Lemna disperma			•		•	
Lentibulariaceae							
	Polypompholyx multifida		•	•			
	Polypompholyx tenella		•	•			
	Utricularia inaequalis		•	•			
	Utricularia menziesii		•	•			
	Utricularia violacea		•				
Linaceae							
	Linum marginale			•			
Lobeliaceae							
	Isotoma hypocrateriformis		•	•			
	Lobelia alata	•		•			
	Lobelia tenuior				•	•	
*	Monopsis debilis		•	•			•
Loganiaceae							
	Phyllangium palustre		•				
	Phyllangium paradoxum			•	•	•	
Loranthaceae							
	Ameyema linophyllum	•	•	•			
	Ameyema miquellii			•		•	
	Lysiana casuarinae	•	•	•			
	Nuytsia floribunda			•	•		
Lycopodiaceae							
	Phylloglossum drummondii		•	•			

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
Lythraceae							
	Lythrum hyssopifolia	•	•	•			
Malvaceae							
	Lawrencia spicata		•				
Marsileaceae							
	Marsilea drummondii		•				
	Pilularia novae-hollandiae		•				
Menyanthaceae							
	Villarsia albiflora			•			
	Villarsia capitata		•	•			
	Villarsia submersa		•				
	Villarsia violifolia			•			
Mimosaceae							
	Acacia cyclops	•		•		•	
	Acacia extensa		•	•			
	Acacia huegelii				•		
	Acacia lasiocarpa var bracteolata		•				
	Acacia pulchella	•	•		•	•	
	Acacia saligna			•	•	•	
	Acacia willdenowiana					•	
Myoporaceae							
	Myoporum capparoides	•		•		•	
Myrtaceae							
	Agonis flexuosa				•		
	Astartea affinis	•	•	•			
	Baeckea camphorosmae						
	Calothamnus lateralis			•			
	Calytrix flavescens					•	
	Calytrix fraseri				•		
	Eucalyptus calophylla					•	
	Eucalyptus gomphocephala					•	
	Eucalyptus marginata					•	
	Eucalyptus rudis subsp. rudis	•		•			
	Hypocalymma angustifolium			•			
	Kunzea glabrescens				•	•	
	Kunzea micrantha			•			
	Kunzea recurva			•			
	Melaleuca brevifolia			•			
	Melaleuca cuticularis		•				
	Melaleuca incana			•			
	Melaleuca lateriflora subsp. acutifolia		•				
	Melaleuca lateritia		•				
	Melaleuca leptoclada		•	•			
	Melaleuca preissiana			•		•	
	Melaleuca rhaphiophylla			•			

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
	Melaleuca teretifolia		•	•			
	Melaleuca thymoides			•	•	•	
	Melaleuca uncinata		•				
	Melaleuca viminea		•				
	Pericalymma ellipticum			•			
	Regelia ciliata			•			
	Verticordia densiflora		•				
Onagaraceae							
	Epilobium billardierianum			•			
	Epilobium hirtigerum			•			
Orchidaceae							
	Caladenia flava			•	•	•	
	Caladenia latifolia	•			•		
	Caladenia paludosa			•			
	Caladenia radiata		•	•			
	Caladenia ?longicauda					•	
	Caladenia huegelii ???				•		
	Cyrtostylis huegelii			•			
	Cyanicula deformis				•	•	
	Cyanicula gemmata				•	•	
	Diuris amplissima					•	
	Elythranthera brunonis					•	
	Eriochilus dilatatus					•	
	Eriochilus helonomos			•			
	Leporella fimbriata					•	
	Leptoceras menziesii	•				•	
	Lyperanthus nigricans				•	•	
	Microtis media subsp. media			•		•	
	Microtis orbicularis		•				
*	Monadenia bracteata	•		•	•	•	
	Prasophyllum drummondii		•	•			
	Prasophyllum fimbria					•	
	Prasophyllum hians			•		•	
	Prasophyllum macrostachyum		•				
	Prasophyllum parviflorum					•	
	Pterostylis nana				•	•	
	Pterostylis recurva				•	•	
	Pterostylis vittata				•	•	
	Thelymitra crinita					•	
	Thelymitra flexuosa			•		•	
	Thelymitra pauciflora					•	
Orobanchaceae							
	Orobanche australiana	•		•			
Oxalidaceae							
	Oxalis perennans					•	
*	Oxalis pes-caprae	•		•		•	•
*	Oxalis purpurea					•	•
Papilionaceae							

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
	Bossiaea eriocarpa					•	
	Daviesia physodes					•	
	Daviesia preissii					•	
	Dillwynia dillwynioides		•	•			
	Eutaxia virgata			•			
	Euchilopsis linearis			•			
	Gompholobium confertum					•	
	Gompholobium tomentosum				•		
	Hardenbergia comptoniana	•	•		•		
	Hovea trisperma					•	
	Isotropis cuenifolia				•	•	
	Jacksonia furcellata	•			•	•	
	Jacksonia sternbergiana			•	•	•	
	Kennedia prostrata				•	•	
*	Lotus angustissimus			•	•	•	•
*	Lotus subbiflorus			•			•
*	Lupinus consentinii				•		•
*	Lupinus angustifolia					•	•
*	Medicago polymorpha	•					•
*	Melilotus indica	•					•
	Nemcia capitata					•	
*	Ornithopus pinnatus			•			•
	Pultenaea ochreata			•			
	Pultenaea reticulata			•			
*	Trifolium angustifolium						•
*	Trifolium arvense	•					•
*	Trifolium campestre					•	•
*	Trifolium dubium					•	•
*	Trifolium hybridum						•
*	Vicia hirsuta	•					•
*	Vicia sativa subsp. nigra			•			•
	Viminaria juncea			•			
Philydraceae							
	Philydrella pygmaea			•			
Phormiaceae							
	Agrostocrinum hirsuta					•	
	Dianella revoluta	•	•				
Phytolaccaceae							
*	Phytolacca octandra						•
Pittosporaceae							
	Billardiera variifolia					•	
Poaceae							
	Agrostis avenacea		•	•			
	Agrostis plebeia		•				
*	Aira cupaniana	•	•	•			
	Amphibromus nervosus		•			•	
	Amphipogon debilis					•	
	Amphipogon turbinatus				•	•	
*	Anthoxanthum odoratum		•	•		•	•
*	Avena barbata	•				•	•

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
*	Avena fatua		•				•
*	Briza maxima		•	•		•	•
*	Briza minor		•	•	•	•	•
*	Bromus catharticus						•
*	Bromus diandrus	•					•
*	Bromus hordeaceus	•				•	
*	Bromus madritensis		•				
*	Cynodon dactylon	•		•		•	•
	Danthonia occidentalis	•					
	Danthonia setacea		•	•			
	Deyeuxia quadriseta			•		•	
*	Digitaria sanguinalis						•
*	Ehrharta calycina		•				
*	Ehrharta longiflora	•			•		•
*	Eragrostis curvula						•
*	Glyceria maxima		•				
	Hainardia cylindrica		•				
	Hemarthria uncinata				•	•	
*	Holcus lanatus	•					•
*	Holcus setiger		•				
*	Hordeum geniculatum	•	•			•	
*	Hordeum leporinum	•				•	
*	Lagurus ovatus	•	•		•	•	•
*	Lolium multiflorum	•					•
*	Lolium rigidum	•		•			•
	Microlaena stipoides			•		•	
	Neurachne alopecuroidea					•	
*	Paraphlois incurva		•				
*	Paspalum dilatatum						•
*	Phalaris minor	•					•
*	Poa annuua	•	•		•		•
	Poa drummondiana				•		
	Poa poiformis			•			
*	Polypogon monspeliensis	•		•			•
	Polypogon tenellus		•				
	Spinifex longifolius	•					
	Sporobolus virginicus	•					
*	Stenotaphrum secundatum	•					•
	Stipa compressa			•	•	•	
	Stipa flavescens	•					
	Stipa hemipogon		•			•	
*	Vulpia bromoides	•	•				
*	Vulpia myuros		•	•		•	•
Polygalaceae							
	Comesperma ?calymega				•		
	Comesperma drummondii		•				
	Comesperma integerrimum	•		•			
Polygonaceae							
*	Acetosella vulgaris					•	•
	Muehlenbeckia adpressa	•				•	
*	Rumex brownii			•			
*	Rumex pulcher			•			•

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
Portulacaceae							
	Calandrinia calyptrata				•		
	Calandrinia corrigioloides	•			•		
	Calandrinia granulifera				•		
	Calandrinia ?composita		•				
Primulaceae							
*	Anagallis arvensis	•				•	•
	Samolus junceus		•	•			
	Samolus repens	•		•			
Proteaceae							
	Adenanthos cygnorum				•		
	Banksia attenuata				•		
	Banksia grandis					•	
	Banksia ilicifolia			•			
	Banksia littoralis			•			
	Dryandra lindleyana subsp. lindleyana					•	
	Hakea marginata			•			
	Hakea prostrata				•	•	
	Hakea trifurcata		•				
	Hakea varia			•			
	Petrophile linearis				•	•	
	Petrophile media var juncifolia			•		•	
	Petrophile seminuda			•			
	Petrophile striata					•	
	Stirlingia latifolia			•	•		
	Synaphea spinulosa					•	
Ranunculaceae							
	Clematis pubescens				•	•	
*	Ranunculus muricatus						•
Restionaceae							
	Cyrtogonium leptocapoides			•			
	Desmocladus fasciculatus				•	•	
	Desmocladus flexuosus					•	
	Hypolaena exsulca				•		
	Hypolaena pubescens		•	•			
	Lepyrodia glauca		•			•	
	Lepyrodia muirii			•			
	Lyginia barbata			•	•		
	Meeboldinia aristata		•				
	Meeboldinia cana		•				
	Meeboldinia coangustata		•	•			
	Meeboldinia roycei		•				
Rhamnaceae							
	Spyridium globulosum	•					
Rubiaceae							
*	Galium murale	•					
	Opercularia hispidula			•	•	•	

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
	Opercularia vaginata			•			
*	Sherardia arvensis	•					
Ruppiaceae							
	Ruppia megacapa		•				
Rutaceae							
	Boronia crenulata			•			
	Philotheca spicata				•	•	
Santalaceae							
	Exocarpos sparteus	•	•		•	•	
Sapindaceae							
	Dodonaea viscosa subp. spatulata	•					
Scrophulariaceae							
*	Bellardia trixago			•			•
*	Dischisma arenarium	•					
*	Dischisma capitatum						•
	Glossostigma diandrum		•				
	Gratiola peruviana			•			
*	Parentucellia latifolia			•		•	
*	Parentucellia viscosa	•		•			•
*	Veronica arvensis	•		•			•
	Veronica sp					•	
Selaginellaceae							
	Selaginella gracillima		•	•			
Solanaceae							
*	Solanum americanum			•			
*	Solanum nigrum	•		•			
	Solanum symonii	•					
Stackhousiaceae							
	Stackhousia huegelii					•	
	Tripterococcus brunonis					•	
Stylidiaceae							
	Levenhookia pusilla		•	•		•	
	Levenhookia stipitata		•		•	•	
	Stylidium brunonianum				•		
	Stylidium calcaratum		•			•	
	Stylidium dichotomum		•	•			
	Stylidium ecorne		•	•			
	Stylidium guttatum			•			
	Stylidium innundatum		•				
	Stylidium longitubum			•			
	Stylidium mimeticum		•	•			
	Stylidium periscelianthum		•	•			
	Stylidium petiolare			•			
	Stylidium piliferum			•	•	•	
	Stylidium pulchellum			•			

Family group	Plant Taxa	Vegetation Unit					
		Bch	clyp	WM	sand	j/m	D
	Stylidium repens				•		
	Stylidium roseo-alatum		•	•			
	Stylidium roseo-nanum		•	•			
	Stylidium schoenoides				•	•	
Thymeleaceae							
	Pimelea rosea	•			•		
Tremandraceae							
	Platytheca galioides					•	
	Tetratheca hirsuta					•	
Typhaceae							
	Typha domingensis					•	
*	Typha orientalis					•	
Urticaceae							
	Parietaria debilis	•					
Violaceae							
	Hybanthus floribundus					•	
Xanthorrhoeaceae							
	Xanthorrhoea preissii		•				
Zamiaceae							
	Macrozamia riedlei	•	•		•	•	
Zanichelliaceae							
	Lepilaena preissii		•				