

HIGH ROAD BUSHLAND, WANNEROO

Boundary Definition: bushland (part taken to cadastre and zoning)/bushland group boundary

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 471

Area (ha): bushland 41.8

Map no. 28

Map sheet series ref. no. 2034-II NW

Other Names: not known

Local Authorities (Suburb): Shire of Wanneroo (Wanneroo)

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Spearwood Dunes

Sands derived from Tamala Limestone (Qts: S7)

Wetlands (within the Spearwood Dunes)

Holocene Swamp Deposits (Qhw: Cps) (not mapped under Wetlands or vegetation observed)

VEGETATION AND FLORA

Vegetation Complexes

Spearwood Dunes

Karrakatta Complex — Central and South

Floristic Community Types: *not sampled, type inferred

Supergroup 4: Uplands centred on Spearwood and Quindalup Dunes

*28 Spearwood *Banksia attenuata* or *B. attenuata* — *Eucalyptus* woodlands

WETLANDS

No wetlands mapped

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated uplands

Vegetation and Flora: limited survey (DEP 1998, surveyed from roadside)

Structural Units

Uplands: *Banksia illicifolia*, *B. attenuata* Low Open Woodland; *Banksia attenuata*, *B. menziesii* and *Allocasuarina fraseriana* Low Woodland to Open Low Forest sometimes with scattered emergent trees of *Eucalyptus marginata*; *Banksia attenuata* Low Open Woodland with emergent trees of *Eucalyptus gomphocephala*

Vegetation Condition: >80% Excellent to Very Good, <15% Good to Degraded, with areas of severe localised disturbance

Total Flora: not known

Significant Flora: none recorded

Fauna: not known

Linkage: adjacent bushland to the north, south, east and west

Other Special Attributes: majority recommended for protection in the study of City of Wanneroo bushland (Trudgen 1996)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Criteria not relevant to determination of regional significance, but which may be applied when evaluating areas having similar values

Recommendation: Part A: Other Government Land Mechanism. Part B: Rural Complementary Mechanism. Part C: Local Reserve Mechanism (see Table 3, Volume 1).

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SECTION 1: CADASTRAL INFORMATION

(Lots, locations and derived information to be updated in the public submission period)

Bushplan Site no. 471 **Map no.** 39

Map sheet series ref. no. 2034-II NW

Other Names: not known

Area (ha): total 45.0; bushland 41.8

Local Authorities (Suburb)

Zoning

Shire of Wanneroo (Wanneroo)

MRS: Urban, Rural, Public Purposes-Water Authority of WA

TPS: Landscape, Parks and Recreation, Rural

Ownership Categories

Private, State Government, Local Government

Lot/Location/Reserve numbers (Purpose),

Street name

10135 Chicquita Pl; 2, 6904 Belgrade Rd; 10130

Benmuni Rd; 29, 30, 31, 32, 33, 34 Elliot Rd

Crown Reserve

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SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria met for inclusion: Representation of ecological communities, Criteria not relevant to determination of conservation value, but which may be applied when evaluating areas having similar values

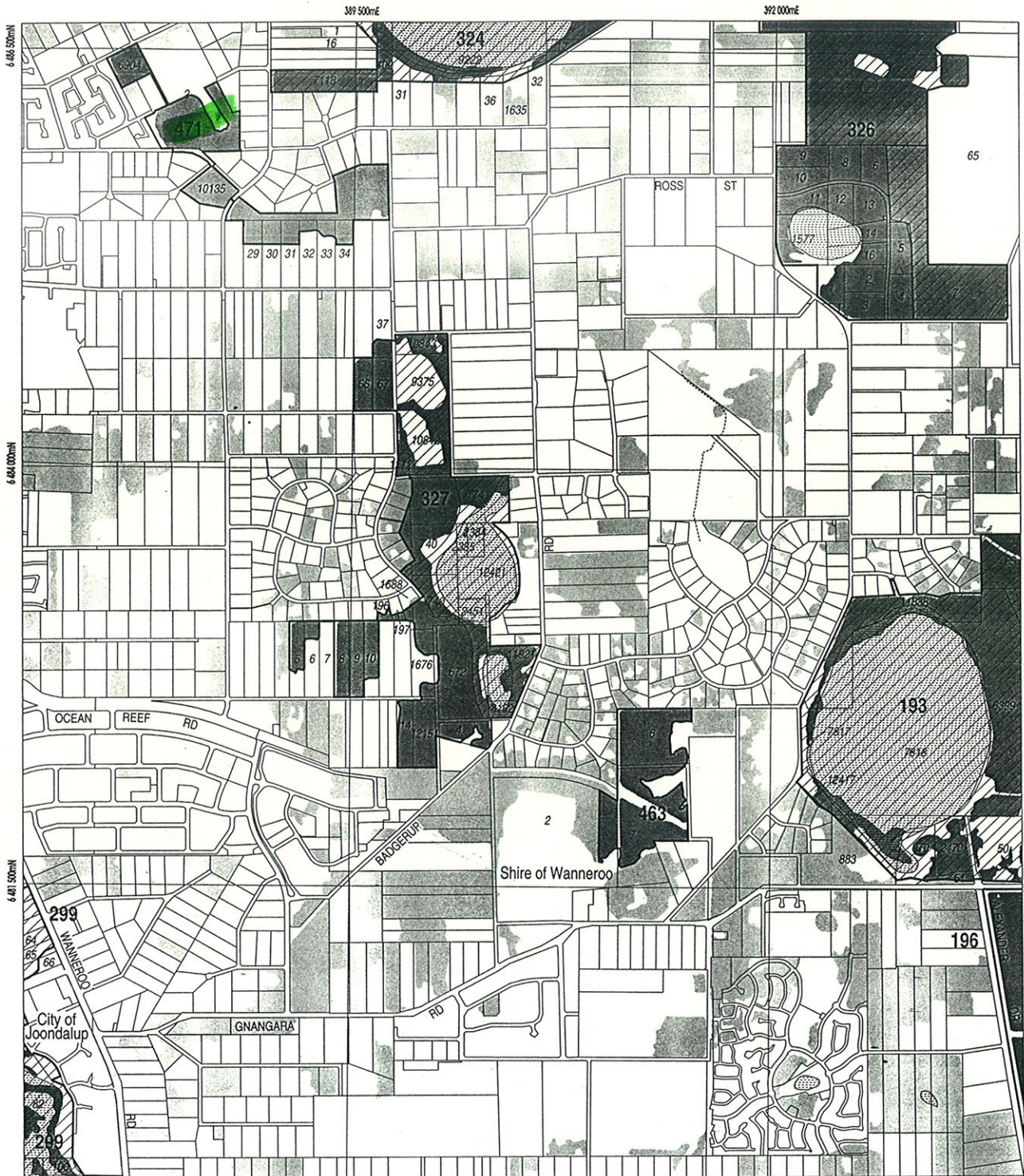
Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site under TPS Parks and Recreation Zoning and Landscape Zoning, Crown Reserve

Constraints: private land; under MRS Urban Zoning, General Mineral Resource Area (sand)

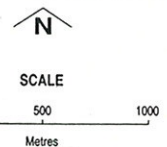
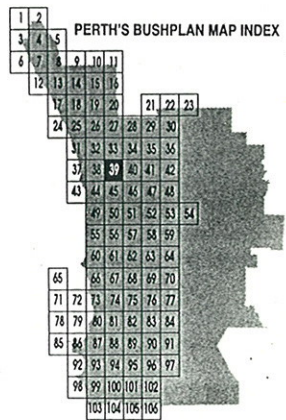
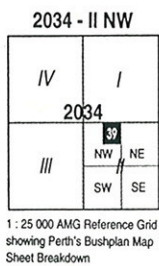
Recommendation: The most appropriate mechanism for the protection of this Bushplan Site be considered through the public comment period in consultation with the land owner(s).





LEGEND

-  Bushplan Sites With Regionally Significant Bushland
-  Other Native Vegetation
-  Conservation Category Wetlands
-  Bushplan Sites With Some Existing Protection
-  Lot Number, Location Number
-  Channel Wetlands
-  Local Government Boundary



Produced by Project Mapping Section
Land Information Branch, Ministry for
Planning, Perth W.A. November 1998
ntw-map11//environ/bushplan/bushw2_39.dgn

Cadastral Data supplied by Department
of Land Administration, W.A.

Wetlands Data supplied by
Water and Rivers Commission

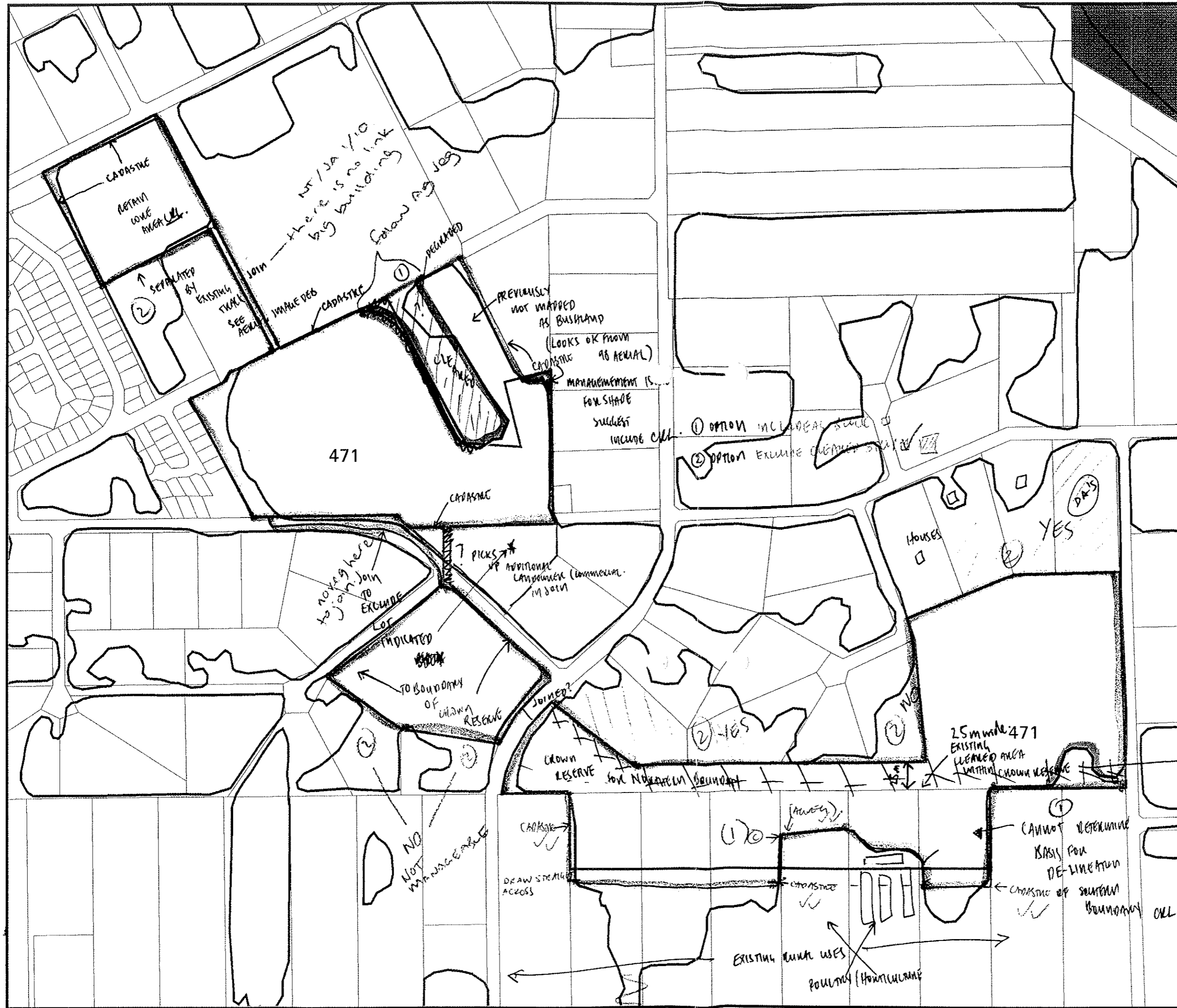
Native Vegetation Extent for Study Area
supplied by Agriculture Western Australia

5/8/97

/// Cleared



X 122%



- Cadastre
- Bushplan sites refno 1-500 SCP BOUNDARY T
- cons category wetlands
- AG VEG 1998 BOUNDARY THEME
1/10 NT/SA
Exclude cleared areas in rural land.

KB
KARRAKATTA C/S.

1) Was an late add on to justify losing other K-C-S I suggest we take line back to approx of AgWA vegetation subject to conditions to provide effective linkage. Agree to exclude clear

2) May also be scope to add on, subject to conditions, vegetation in other 4 ha rural lot. what do you think? Especially since existing uses/houses.

BUSHLAND NOT CONTIGUOUS WITH ANGAO YOUTH
MAYBE DOESN'T SHOW CLEARED AREAS: KB:17



471

471
Agreed

BUSHPLAN SITES CORRECTED



WESTERN
AUSTRALIAN
PLANNING
COMMISSION



A/B

PART 471

DL2 updated

DEP SYSTEM 6/BUSHLAND - SURVEY SHEET

B.J. KEIGHERY 6/97

BUSHLAND AREA BENTON RD SITES

YES/NO

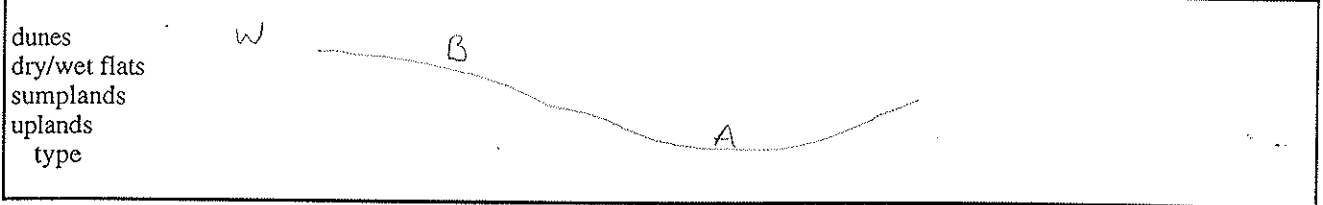
DATE 5/8/97 RECORDERS BJK

Observations edge transects

| | | | |
|---------------------|----------|-------------|---|
| Geographic Location | Latitude | S Longitude | E |
| Reference Map | | | |

| | | |
|------------|---------------------|----------|
| Photograph | Photographer's Name | Photo No |
|------------|---------------------|----------|

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



| | |
|-------------------|-----------|
| Soil - surface | sub -soil |
| Exposed rock type | % area |

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

| | | | | | |
|--|--------------------------------|------------------------|------------------------|-----------------------|--|
| Eucalypts | <i>E. calophylla</i> | <i>E. wandoo</i> | <i>E. marginata</i> | <i>E. todtiana</i> | <i>E. rudis</i> |
| | <i>E. decipiens</i> | <i>E. drummondii</i> | <i>E. haematoxylon</i> | <i>E. lanepolei</i> | <i>E. gomphocephala</i> |
| | <i>E. accedens</i> | <i>E. patens</i> | <i>E. laeliae</i> | <i>E. megacarpa</i> | |
| Sheoaks | <i>Allocasuarina fraserana</i> | <i>Casuarina obesa</i> | | | |
| Banksia | <i>B. attenuata</i> | <i>B. menziesii</i> | <i>B. prionotes</i> | <i>B. illicifolia</i> | <i>B. grandis</i> <i>B. littoralis</i> |
| Melaleuca | <i>M. preissii</i> | <i>M. raphiophylla</i> | <i>M. lanceolata</i> | <i>M. cuticularis</i> | |
| Others | <i>Callitris preissii</i> | | | | |
| Mallees | Eucalypts | <i>E. argutifolia</i> | <i>E. petrensis</i> | <i>E. decurva</i> | <i>E. foecunda</i> <i>E. latens</i> |
| SIGNIFICANT SPECIES / DOMINANT SPECIES | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| (see over for vegetaion descriptions) | | | | | |

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

- 1 = 'Pristine' (Excellent)
- 2 = Excellent (Very Good)
- 3 = Very Good (Good)
- 4 = Good (Poor)
- 5 = Degraded (Very Poor)
- 6 = Completely Degraded

Specific aspects of disturbance

partial clearing: area on south side (see photo), very large
fire break (see 97 photos), Edgic (hr. caly.)

weeds (list):

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

fire frequency:

'enrichment plantings' (list)

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

soil movement: mining dumping rubbish dumping roadworks

changes in water regimes: flooding drainage watering nutrient influx

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

Service corridors: SEC Main Roads Water Authority. Telecom

Other

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

A. Bank illc, Bank alt Low open Woodland over
E. sinca ? pauci Open Low Heath

Very Good to Excellent. patches P. Velat, possibly
cleared in past (long time ago) on low point less
wet today.

B. Scatt emergent Juncus over Bank alt near
All Pros Low Woodland to Open Low Forest over
Star lot, Hib high xp Low Shrub to Open Low Heath
over Meso pseud. Open sedeland Scatt Bank illc
Understory. Cons pander, Hgyp. rob, Bro spic, Catyhrx gel

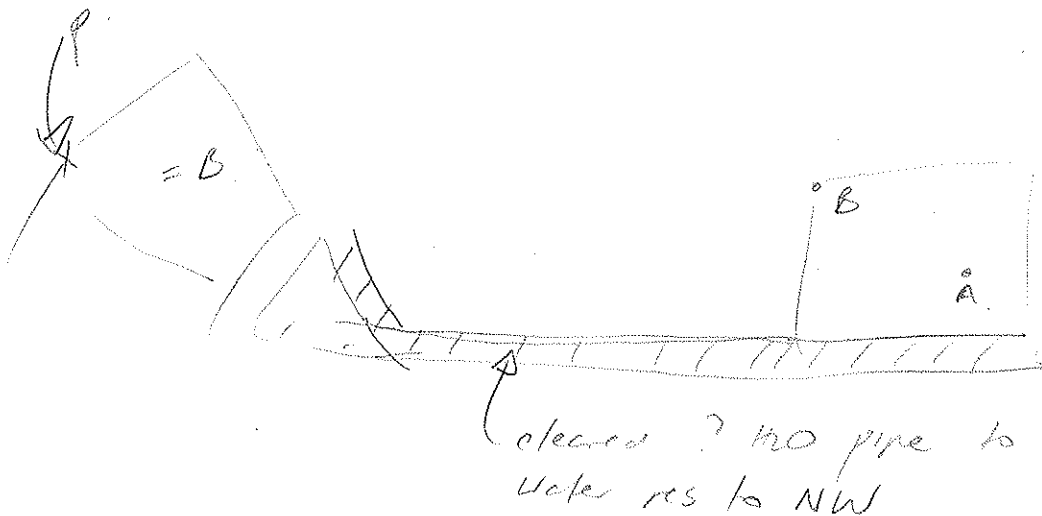
Excellent to Very Good. Mostly stunted, low
weeds no birch like last 2, Scatt. Glad, edges.
Ehr edg, Red. cap.

Note: All blocks except last one have Ac wild yellow,
which had Ac wild clear

Fauna comments

Adjacent bushland (refer to aerial photograph)

OTHER COMMENTS



C

PART 471

VOL 2 UPDATED

DEP SYSTEM 6/BUSHLAND - SURVEY SHEET B.J. KEIGHERY 6/97
 BUSHLAND AREA ADJ H₂O Tower SITES YES/NO
 DATE _____ RECORDERS _____

Observations edge transects

Geographic Location Latitude S Longitude E
 Reference Map

Photograph Photographer's Name BJK Photo No

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

dunes
 dry/wet flats
 sumplands
 uplands
 type

Soil - surface brown sand sub -soil yellow sand
 Exposed rock type % area

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

| | | | | | |
|--|---------------------------------------|----------------------------|------------------------|-----------------------|--|
| Eucalypts | <i>E. calophylla</i> | <i>E. wandoo</i> | <i>E. marginata</i> | <i>E. todtiana</i> | <i>E. rudis</i> |
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| | <i>E. accedens</i> | <i>E. patens</i> | <i>E. laeliae</i> | <i>E. megacarpa</i> | |
| Sheoaks | <u><i>Allocasuarina fraserana</i></u> | <i>Casuarina obesa</i> | | | |
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| SIGNIFICANT SPECIES / DOMINANT SPECIES <u>see over</u> | | | | | |

(see over for vegetation descriptions)

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

| | | |
|----------------------------|-------|-----|
| 1 = 'Pristine' (Excellent) | | |
| 2 = Excellent (Very Good) | | |
| 3 = Very Good (Good) | 75% | 75% |
| 4 = Good (Poor) | | |
| 5 = Degraded (Very Poor) | < 20% | |
| 6 = Completely Degraded | < 5% | |

Note: tree deaths ?? bc mud wind both treat & Banksia regrowth the silicles

Specific aspects of disturbance

partial clearing

weeds (list): Edges: Euph. lcr, Paddy Turnip, Pel cap, Love Grass, etc.
Internal: Pel cap, Euph. lcr, etc.

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

fire frequency:

'enrichment plantings' (list)

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

soil movement: mining dumping rubbish dumping roadworks

changes in water regimes: flooding drainage watering nutrient influx

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

Service corridors: SEC Main Roads Water Authority. Telecom

Other

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

Thick grass over Bank all Low Open Woodland. (many dead trees) over Ac. silv Jack stern 14% pros 72m 30-70% over Hibb King 10-30% Inv (Ters. cy) over Ehr. caly Grassland to Open Grassland, Open Sedge Mp, Sea grass
 Very Good (Good) - Degraded patches of bank

Bank all, near All Pros Low Open Wood to LO Forest (very few patches) over 72m Jack stern 10-30% over Inv Hibb King tall sili 30-70% Briza Grassland over 12-15% Anis Anag, 10-30% - 2-10% Pros sedge Sedge Mp, Anis mang, Ters, Pat bro, Hjb. caly, Pet In

Very good - Good

Severe local soil disturb, 9 days miss weeds. (Soil/rubbish dumping)

Fauna comments

Adjacent bushland (refer to aerial photograph)

OTHER COMMENTS

Bronwen Keighery

From: Williams, Kate [Kate.Williams@planning.wa.gov.au]
Sent: Wednesday, 25 July 2001 9:51
To: 'bronwen.keighery@environ.wa.gov.au'
Subject: Followup with WaterCorp

Report
in progress

Hi Bronwen

Just checking that you are happy to followup from yesterday's site visit re: the 40m wide clearing WaterCorp carried out for their drain. Let me know if I can help.

Cheers
Kate

Response by telephone 26/7/01

- Expectation that MFP will follow up (not expected that cleared area would regenerate without help - no seed store evident)
- sent 'description' forms from 5/8/97 to Kate W.
- Report on the survey value will refer to clearing.

R. Keighery 26/7/01

WILD 15740AGA
Nr 13087 15272

000017

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000000 003129 200125 60 1938