

RESERVE ACTION SHEET: CONSERVATION RESERVES

RESERVE No. 50588

LOCAL GOVERNMENT: Shire of Wyndham
East Kimberley

NAME: Unnamed nature reserve

PURPOSE: Conservation of Flora and Fauna

VESTING: Conservation and Parks Commission

ACTION: Addition of Lots 510-511 on Deposited Plan 422455, being 370.7139 hectares to unclassified Nature Reserve

Total Area: 18.9892 hectares to 389.7031 hectares

REASON FOR ACTION: Lots 510-511 are known to contain Endangered Declared Rare Flora *Typhonium* sp. Kununurra. This species is confined to geographically highly restricted specific black soils around the Kununurra area. Most of the soils suitable for this species have been developed for agriculture and other purposes.

The addition was completed to provide protect these populations.

Date of amendment: 16/02/2022

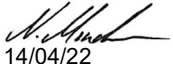
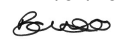
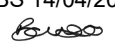
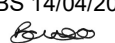
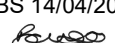
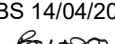
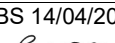
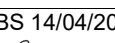
Maps: Attachment 2

Customer advice: Attachment 1

Proposal Summary: Attachment 3

Recommended IUCN classification: Ia

Native Title: NA

1 LAND UNIT LEADER	To note	 14/04/22
2 LAND UNIT	Send scan of RAS, customer advice, Reserve Enquiry Detail and maps to:	
	• Lisa Wright (Kensington) DIGITAL COPY	BS 14/04/2022 
	• District Manager DIGITAL COPY	BS 14/04/2022 
	• Regional Manager DIGITAL COPY	BS 14/04/2022 
	• Geoffrey Banks GIS Branch DIGITAL COPY	BS 14/04/2022 
	Attach Landgate RED to file	BS 14/04/2022 
	Strikethrough from District Proposals spreadsheets	BS 14/04/2022 
	Create Conservation Commission summary	BS 14/04/2022 
	TENIS amended	
3 EXECUTIVE DIRECTOR, PARKS AND VISITOR SERVICES	To note	

**Customer Advices for Reserve Actions
1/02/2022 - 28/02/2022**

Shire of Wyndham-East Kimberley 1/02/2022 - 28/02/2022

Reserve No.	Land Description	DPLH File No.	Volume/Folio	Action	Document No.	Registered	Street Name	Area	Public Plans
50588	Lot 510 on Deposited Plan 422455 Lot 511 on Deposited Plan 422455	00420-2010	0000-000 0000-000	Amendment of Reserve to add Lots 510 and 511 on Deposited Plan 422455 and its area being increased to 389.7031 hectares, accordingly.	P030488	03/02/2022	Weero Road & Chamberlain Drive, Kununurra	389.7031 Ha	

Reserve Details Report -50588

Reserve	50588	Legal Area (ha)	389.7031
Name	N/A	Status	CURRENT
Type	N/A	Current Purpose	CONSERVATION OF FLORA AND FAUNA
File Number	N/A		
Notes	N/A		
Additional Reserve Information	RESERVE COMPRISES LOTS 500 ON DP54760, LOT 209 ON DP65964 & LOTS 510, 511 ON DP422455 (P030488)		

Class	Responsible Agency	Date of Last Change
C	DEPARTMENT OF BIODIVERSITY, CONSERVATION AND ATTRACTIONS (SCLM)	16/02/2022

Management Order	Document Number
VESTING CONSERVATION COMMISSION OF WESTERN AUSTRALIA	L345358

Land Use
CONSERVATION OF FLORA AND FAUNA

Local Government Authority
SHIRE OF WYNDHAM-EAST KIMBERLEY

CLT Number	Parcel Identifier	Street Address, Suburb	File Number	PIN	Area (m ²)
LR3157/6	Lot 500 On Deposited Plan 54760	No Street Address Information Available	00420-2010-01RO	11630444	66891
LR3159/327	Lot 209 On Deposited Plan 65964	Lot 209 Berkeley Crescent, KUNUNURRA 6743	00420-2010-01RO	11866414	123001
LR3174/343	Lot 510 On Deposited Plan 422455	No Street Address Information Available	00420-2010-01RO	12556271	3007131
LR3174/344	Lot 511 On Deposited Plan 422455	No Street Address Information Available	00420-2010-01RO	12556273	700008

Previous Certificates of Title	Status

Document Number/Gazette Page	Date	Type	Text

Document Number/Gazette Page	Date	Type	Text
P030488	03/02/2022	Current Area	389.7031
L345358	15/06/2010	Current Vesting	VESTING CONSERVATION COMMISSION OF WESTERN AUSTRALIA
L332882	01/06/2010	Class	C
L332882	01/06/2010	Current Purpose	CONSERVATION OF FLORA AND FAUNA
L332882	01/06/2010	Historical Area	18.9892

date: Apr 13, 2022, 9:47:18 AM



Your ref: 02164-1994 Case No: 1901655
Our ref: 2018/005711
Enquiries: David Chemello
Phone: 9168 4254
Email: david.chemello@dbca.wa.gov.au

Michael Sneyd
State Land Officer - Case Management North: Land Use Management
Department of Planning, Lands and Heritage

Dear Michael

EXPIRING LEASE I150311 – SHIRE OF WYNDHAM-EAST KIMBERLEY

Thank you for your correspondence dated 25 July 2019.

The Department has reviewed the proposed future use of lease I150311 and offers the following advice:

- The area in question has had considerable attention and dialogue between various stakeholders (lessees, Main Roads, Department of Environment Regulation, Parks and Wildlife, Department of Lands, consultants etc.) since 2007 including the Main Road's Kununurra proposed Heavy Vehicle Route which is planned to dissect this lot.
- The initial clearing permit (CPS 2892/1) submitted by Main Roads was over a small portion of the lease (60ha) yet was at variance, or likely to be at variance, to a number of principles outlined in the Clearing Permit Decision Report, given the environmental values of this site.
- The lease in question contains grey cracking clay (black soil) in distinct 'fingers' as highlighted in Figure 1 below which supports unique flora assemblages. There is little suitable black soil in conservation estate in the Kununurra area (0.7% of the original area prior to land clearing).
- One of the primary conservation values of the black soil within lease I150311 is *Typhonium* sp. Kununurra. *Typhonium* sp. Kununurra is a perennial, cormous herb that is geographically highly restricted to specific black soil around the Kununurra area. Detecting *Typhonium* sp. Kununurra in the field is challenging, and the best indication for the likelihood of its presence is suitable soil type. The soil type found on Lot 3002 is known to support *Typhonium* sp. Kununurra and is therefore considered suitable habitat. *Typhonium* sp. Kununurra has been confirmed on site through previous targeted surveys including by Smec Urban Consulting Group in 2008.
- In 2009 *Typhonium* sp. Kununurra was a Priority 1 Flora (poorly known species, known from only a few locations which are potentially at risk). By the time the clearing application was amended in 2014 *Typhonium* sp. Kununurra had been upgraded to Declared Rare Flora (DRF) and classed as 'Vulnerable'.

- In 2016 the Threatened Species Scientific Committee (TSSC) re-assessed the conservation status of *Typhonium* sp. Kununurra. This included a detailed analysis of the black soil it is restricted to and the extent of that habitat that has been cleared to date, is proposed to be cleared, or is reserved for conservation purposes. *Typhonium* sp. Kununurra was consequently upgraded from being a Declared Rare Flora (DRF) in the category of 'Vulnerable' to 'Endangered', which was endorsed by the Minister.
- If future developments in the East Kimberly proceed, 58% of the known current remaining habitat would be lost in addition to that which has already been cleared. Further loss of habitat is therefore a significant concern for the long term conservation of the species.
- The black soil on this lease is a significant area of suitable habitat and supports a substantial population of *Typhonium* sp. Kununurra. Impacts to or a loss of this area is likely to have a substantial impact on the species' conservation through loss of available habitat, which equates to a continuing decline in the Area of Occupancy, the number of populations, mature individuals and connectivity of the species.
- To safeguard *Typhonium* sp. Kununurra, it is also important to preserve the hydrology and surface water flows in the areas where it is found. This can be achieved in part by retaining a buffer of native vegetation around the suitable habitat. The hydrology is of particular importance in this instance as this area is the upper end of the drainage line. Impacts on this site will not only affect *Typhonium* sp. Kununurra and habitat on site but are also likely to impact neighbouring *Typhonium* habitat to the west.
- Black soil also supports other significant flora species in addition to *Typhonium* sp. Kununurra. Previous surveys have confirmed the following Priority Flora to be found within the proposed area:
 - *Brachychiton tuberculatus* (P3)
 - *Goodenia purpurascens* (P3)
 - *Iphigenia indica* was also found on site and not previously known to occur in the east Kimberley.

A desktop search has also shown the potential for the following Priority Flora to occur on site:

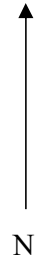
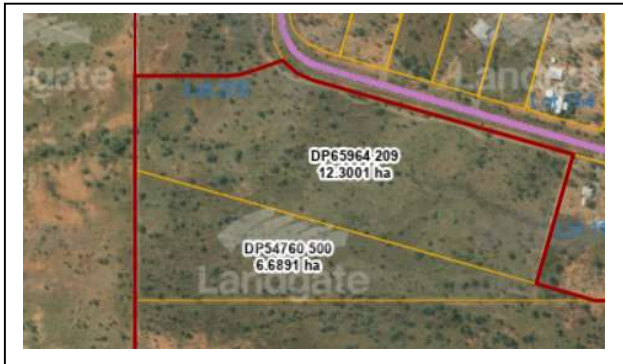
- *Cyperus digitatus* (P1)
- *Echinochloa kimberleyensis* (P1)
- *Goodenia brachypoda* (P1)
- *Goodenia malvina* (P1)
- *Heliotropium tachyglossoides* (P1)
- *Hullisia argillicola* (P1)
- *Jacquemontia* sp. Keep River (J.L. Egan 5051) (P1)
- *Solanum pugiunculiferum* (P1)
- *Utricularia tubulata* (P1)
- *Zornia areolata* (P1)
- *Acacia jasperensis* (P3)
- *Euphorbia stevenii* (P3)
- *Stylidium prophyllum* (P3)
- *Utricularia muelleri* (P3)
- *Whiteochloa capillipes* (P3)

- There are also a number of significant fauna species that may potentially be on site or use the site opportunistically. These include:
 - Orange Leafnosed-bat *Rhinioncteris aurantia* (T)
 - Grey Falcon *Falco hypoleucos* (T)
 - Bush Stone-curlew *Burhinus grallarius* (P4)
 - Letter-winged Kite *Elanus scriptus* (P4)
 - Gouldian Finch *Erythrura gouldiae* (P4)
 - Partridge Pigeon *Geophaps smithii* subsp. *smithii* (P4)
 - Northern Shrike-tit *Falcunculus whitei* (P4)
- Due to these biodiversity values found on site, the Department does not support an extension of this lease or conversion to freehold as all proposed options (cattle breeding and grazing, horticulture/agricultural development, hay production or residential development) are all likely to have significant detrimental impacts to this black soil habitat and the species present.
- Given the environmental values on site, and the fact that the original clearing permit for the Kununurra Heavy Vehicle Route was at variance, or likely to be at variance, to a number of principles, an offset was discussed during previous correspondence between stakeholders to mitigate the environmental impacts. In 2009 the EPA considered that an environmental offset was in fact necessary as a result of the clearing permit so Main Roads investigated the part or full acquisition of Lot 3002 for the purpose of being vested with the Conservation Commission of Western Australia (CCWA) for the protection of flora.
- The Department recommends that when the current lease expires on 13 October 2019 the entire Lot 3002 (not 3001) is converted to conservation estate to be vested under the Conservation Commission of Western Australia by incorporating it into and expanding Reserve 50588. This would result in a sensibly sized secure population of *Typhonium* sp. Kununurra which would help ensure its ongoing survival through the protection of populations in the wild.
- If Main Roads is still pursuing the Kununurra Heavy Vehicle Route, this area could be excised from Lot 3002 prior to converting the remainder of the lot into conservation estate. Ideally the Department will be involved in the alignment of this route to ensure there is minimal disturbance to black soil and *Typhonium*. If this vehicle route does not eventuate this area should also be incorporated into Reserve 50588.
- As an alternative to the above, the Department recommends at a minimum that all black soil (and hence suitable habitat for *Typhonium* and other priority species) is excised from the lease and added to Reserve 50588 as per Figure 1 below. This includes a buffer of native vegetation around the black soil habitat to ensure *Typhonium*'s ongoing survival through the maintenance of surface hydrological processes. This area is included in the attached shapefile.
- Any development or land use in the remaining area of Lot 3002 which isn't excluded will require careful consideration as there is the potential for it to indirectly impact on *Typhonium* sp. Kununurra and its habitat, for example through agricultural runoff or altered hydrology. Therefore, conservation of the entire lot is preferred.
- The Department agrees to accept the costs associated with plan creation and the requested reservation. The Department requests DPLH to complete the consultation process.

Attachment 2 Maps showing previous R50588, Additions to R50588 and Location of R50588.

Additions to R50588 Lot 510 and 511 on Plan 422455

Previous R50588 Lot 209 on Plan 65964 and Lot 500 on Plan 54760 Total 18.9892 hectares



R50588 West of Kununurra, Shire of Wyndham East Kimberley

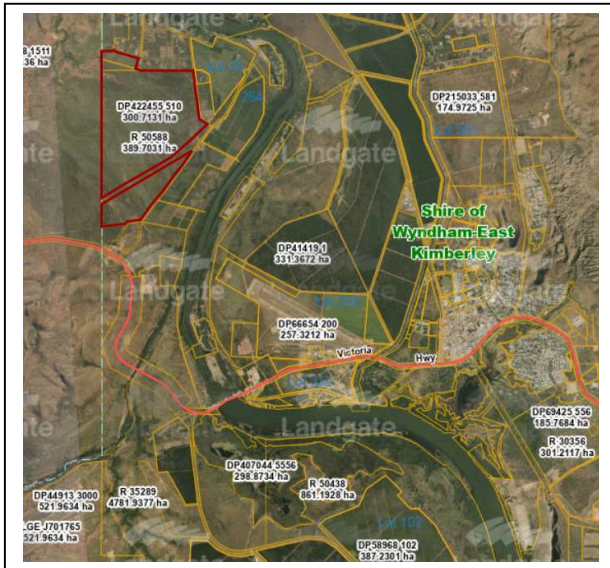
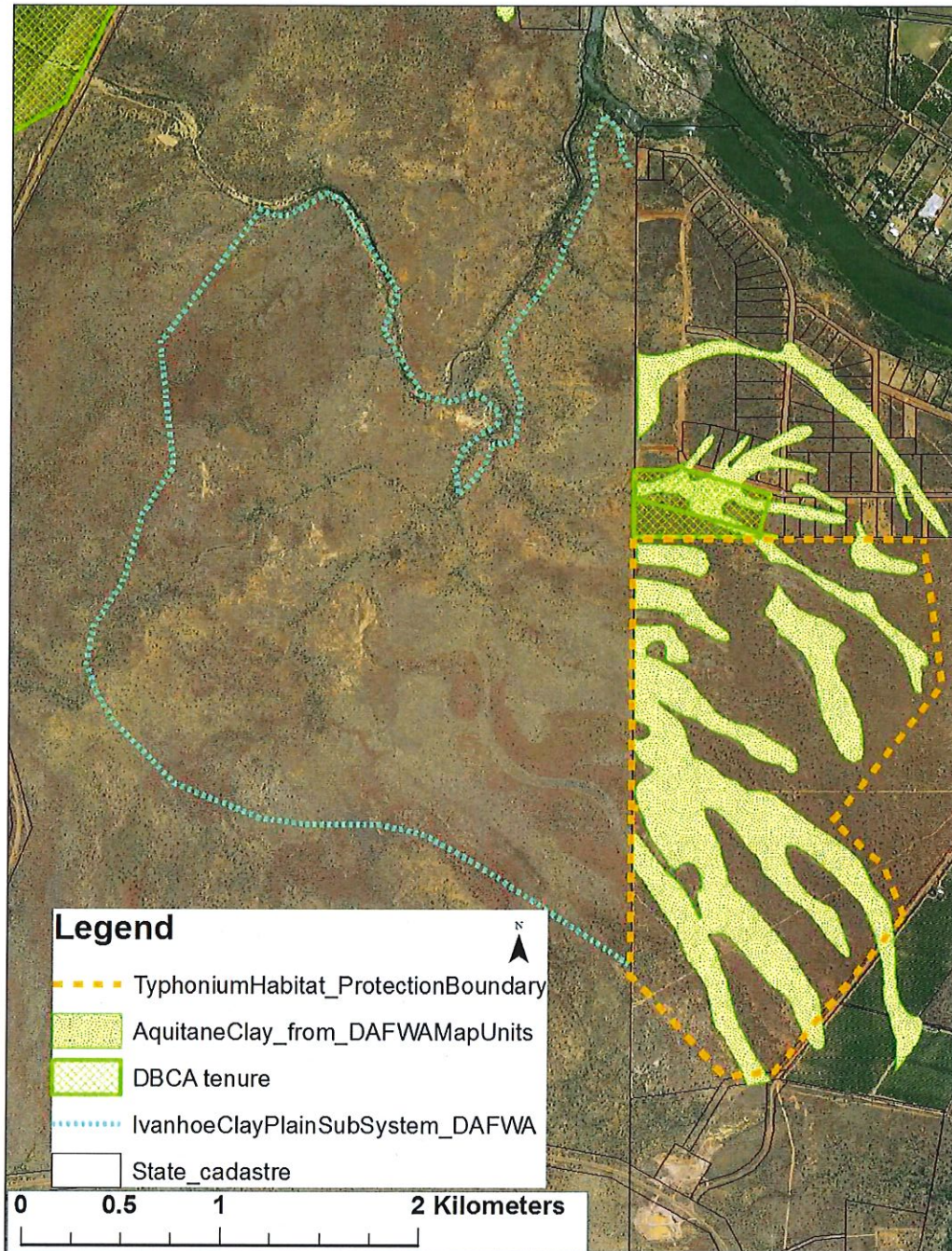


Figure 1: Lot 3002 showing suitable Typhonium habitat and proposed exclusion area.



Thank you for the opportunity to comment on this proposal. Should you require further advice on this matter or would like to discuss in more detail please contact David Chemello on david.chemello@dpaw.wa.gov.au or 9168 4254.

Regards

Craig Olejnik
Regional Manager
Kimberley Region

3 September 2019