



# Threatened and Priority Flora Report Form

Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at <http://dpaw.wa.gov.au/> under Standard Report Forms

<b>TAXON:</b> <u>Acacia benthami</u>		<b>TPFL Pop. No.:</b> _____	
<b>OBSERVATION DATE:</b> <u>25/09/2018</u>		<b>CONSERVATION STATUS:</b> <u>P2</u>	
<b>OBSERVER/S:</b> <u>Angela Benkovic and Erin Lynch</u>		<b>PHONE:</b> <u>62228361</u>	
<b>ROLE:</b> <u>Botanist</u>		<b>ORGANISATION:</b> <u>GHD</u>	

**DESCRIPTION OF LOCATION** (Provide at least nearest town/named locality, and the distance and direction to that place): Between Neerabup National Park and railway line. Within the proposed Mitchell Fwy extension corridor from Hester Ave to Romeo Rd

<b>DBC DISTRICT:</b> <u>Swan Coastal</u>		<b>LGA:</b> <u>City of Wanneroo</u>		<b>Reserve No.:</b> _____	
<b>DATUM:</b>		<b>COORDINATES:</b> (If UTM coords provided, Zone is also required)		<b>METHOD USED:</b>	
GDA94 / MGA94 <input checked="" type="checkbox"/> AGD84 / AMG84 <input type="checkbox"/> WGS84 <input type="checkbox"/> Unknown <input type="checkbox"/>		DecDegrees <input type="checkbox"/> DegMinSec <input type="checkbox"/> UTM's <input checked="" type="checkbox"/> <b>Lat / Northing:</b> <u>See attached data</u> <b>Long / Easting:</b> _____ <b>ZONE:</b> _____		GPS <input checked="" type="checkbox"/> Differential GPS <input type="checkbox"/> Map <input type="checkbox"/> No. satellites: _____ Map used: _____ Boundary polygon captured: <input type="checkbox"/> Map scale: _____	
<b>LAND TENURE:</b>					
Nature reserve <input type="checkbox"/>		Timber reserve <input type="checkbox"/>		Private property <input type="checkbox"/>	
National park <input type="checkbox"/>		State forest <input type="checkbox"/>		Pastoral lease <input type="checkbox"/>	
Conservation park <input type="checkbox"/>		Water reserve <input type="checkbox"/>		UCL <input type="checkbox"/> SLK/Pole _____ to _____	
				Rail reserve <input type="checkbox"/> Shire road reserve <input type="checkbox"/>	
				MRWA road reserve <input checked="" type="checkbox"/> Other Crown reserve <input type="checkbox"/>	
				Specify other: _____	

<b>AREA ASSESSMENT:</b> Edge survey <input type="checkbox"/> Partial survey <input type="checkbox"/> Full survey <input checked="" type="checkbox"/>		Area observed (m <sup>2</sup> ): <u>1046 ha</u>	
<b>EFFORT:</b> Time spent surveying (minutes): <u>28 days</u>		No. of minutes spent / 100 m <sup>2</sup> : _____	
<b>POP'N COUNT ACCURACY:</b> Actual <input checked="" type="checkbox"/> Extrapolation <input type="checkbox"/> Estimate <input type="checkbox"/>		Count method: _____ <small>(Refer to field manual for list)</small>	
<b>WHAT COUNTED:</b> Plants <input checked="" type="checkbox"/> Clumps <input type="checkbox"/> Clonal stems <input type="checkbox"/>			
<b>TOTAL POP'N STRUCTURE:</b>			
	<b>Mature:</b>	<b>Juveniles:</b>	<b>Seedlings:</b>
Alive	<u>17</u>		
Dead	<u>2</u>		
		Area of pop (m <sup>2</sup> ): <u>1.1 ha</u>	
		Note: Pls record count as numbers (not percentages) for database.	
<b>QUADRATS PRESENT:</b>		Total area of quadrats (m <sup>2</sup> ): _____	
Summary Quad. Totals: Alive		<u>20</u>	
<b>REPRODUCTIVE STATE:</b>		Percentage in flower: <u>100%</u>	
Clonal <input type="checkbox"/> Vegetative <input type="checkbox"/> Flowerbud <input type="checkbox"/> Flower <input checked="" type="checkbox"/>			
Immature fruit <input type="checkbox"/> Fruit <input type="checkbox"/> Dehisced fruit <input type="checkbox"/>			

**CONDITION OF PLANTS:** Healthy  Moderate  Poor  Senescent

**COMMENT:** protected by chicken wire fencing

THREATS - type, agent and supporting information:	Current impact (N-E)	Potential Impact (L-E)	Potential Threat Onset (S-L)
Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. Specify agent where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)			
• Clearing by MRWA for the Mitchell fwy extension from Hester Ave to Romeo Rd	L	L	M
•	---	---	---
•	---	---	---



# Threatened and Priority Flora Report Form

## HABITAT INFORMATION:

<b>LANDFORM:</b>	<b>ROCK TYPE:</b>	<b>LOOSE ROCK:</b>	<b>SOIL TYPE:</b>	<b>SOIL COLOUR:</b>	<b>DRAINAGE:</b>
Crest <input type="checkbox"/>	Granite <input type="checkbox"/>	(on soil surface; eg gravel, quartz fields)	Sand <input checked="" type="checkbox"/>	Red <input type="checkbox"/>	Well drained <input checked="" type="checkbox"/>
Hill <input type="checkbox"/>	Dolerite <input type="checkbox"/>		Sandy loam <input type="checkbox"/>	Brown <input type="checkbox"/>	Seasonally inundated <input type="checkbox"/>
Ridge <input type="checkbox"/>	Laterite <input type="checkbox"/>	0-10% <input checked="" type="checkbox"/>	Loam <input type="checkbox"/>	Yellow <input type="checkbox"/>	Permanently inundated <input type="checkbox"/>
Outcrop <input type="checkbox"/>	Ironstone <input type="checkbox"/>	10-30% <input type="checkbox"/>	Clay loam <input type="checkbox"/>	White <input type="checkbox"/>	Tidal <input type="checkbox"/>
Slope <input type="checkbox"/>	Limestone <input checked="" type="checkbox"/>	30-50% <input type="checkbox"/>	Light clay <input type="checkbox"/>	Grey <input checked="" type="checkbox"/>	
Flat <input checked="" type="checkbox"/>	Quartz <input type="checkbox"/>	50-100% <input type="checkbox"/>	Peat <input type="checkbox"/>	Black <input type="checkbox"/>	
Open depression <input type="checkbox"/>	Specify other: _____		Specify other: _____	Specify other: _____	
Drainage line <input type="checkbox"/>					
Closed depression <input type="checkbox"/>					
Wetland <input type="checkbox"/>					
	<b>Specific Landform Element:</b>				
	(Refer to field manual for additional values)				
<b>CONDITION OF SOIL:</b>	Dry <input checked="" type="checkbox"/>	Moist <input type="checkbox"/>	Waterlogged <input type="checkbox"/>	Inundated <input type="checkbox"/>	

## VEGETATION CLASSIFICATION\*:

Eg: 1. Banksia woodland (B. attenuata, B. ilicifolia);  
 2. Open shrubland (Hibbertia sp., Acacia spp.);  
 3. Isolated clumps of sedges (Mesomelaena tetragona)

1. \_\_\_\_\_
2. Banksia woodland B. attenuata and B. menziesii
3. Sparse shrubland Hakea spp. and Xanthorrhoea preissii
4. isolated cheath shrub Hibbertia hypericoides

## ASSOCIATED SPECIES:

Other (non-dominant) spp \_\_\_\_\_

\* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formations should follow 2009 Australian Soil and Land Survey Field Handbook guidelines – refer to field manual for further information and structural formation table.

**CONDITION OF HABITAT:** Pristine  Excellent  Very good  Good  Degraded  Completely degraded

**COMMENT:** Partial clearing (historically)

**FIRE HISTORY:** Last Fire: Season/Month: \_\_\_\_\_ Year: \_\_\_\_\_ Fire Intensity: High  Medium  Low  No signs of fire   
 \_\_\_\_\_>5yrs\_\_\_\_\_

**FENCING:** Not required  Present  Replace / repair  Required  Length req'd: \_\_\_\_\_

**ROADSIDE MARKERS:** Not required  Present  Replace / reposition  Required  Quantity req'd: \_\_\_\_\_

**OTHER COMMENTS:** (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.)

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**DRF PERMIT/ LICENCE No:** SL012366 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under licence/permit should be recorded above in the OTHER COMMENTS section.

**SPECIMEN:** Collectors No: \_\_\_\_\_ WA Herb.  Regional Herb.  District Herb.  Other: \_\_\_\_\_

**ATTACHED:** Map  Mudmap  Photo  GIS data  Field notes  Other: \_\_\_\_\_

**COPY SENT TO:** Regional Office  District Office  Other: \_\_\_\_\_

Submitter of Record: Angela Benkovic Role: Botanist Signed: Date: 5/3/2019

Please return completed form to **Species And Communities Branch DBCA**,  
 Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au

**RECORDS:** Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by: \_\_\_\_\_

Sheet No.: \_\_\_\_\_

Record Entered in Database



# Threatened and Priority Flora Report Form

Version 1.3 August 2017

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<b>TAXON:</b> <u>Stylidium maritimum</u>	<b>TPFL Pop. No.:</b> _____
<b>OBSERVATION DATE:</b> <u>18/09/18 - 18/12/18</u>	<b>CONSERVATION STATUS:</b> <u>P3</u> <span style="float:right">New population <input checked="" type="checkbox"/></span>
<b>OBSERVER/S:</b> <u>Angela Benkovic and Erin Lynch</u>	<b>PHONE:</b> <u>62228361</u>
<b>ROLE:</b> <u>Botanist</u>	<b>ORGANISATION:</b> <u>GHD</u>

**DESCRIPTION OF LOCATION** (Provide at least nearest town/named locality, and the distance and direction to that place):  
Neerabup National Park and railway line. Within the proposed Mitchell Fwy extension corridor from Hester Ave to Romeo Rd

**Reserve No.:** R27575

<b>DBC DISTRICT:</b> <u>Swan Coastal</u>	<b>LGA:</b> <u>City of Wanneroo</u>	<b>Land manager present:</b> <input type="checkbox"/>
<b>DATUM:</b> GDA94 / MGA94 <input checked="" type="checkbox"/> AGD84 / AMG84 <input type="checkbox"/> WGS84 <input type="checkbox"/> Unknown <input type="checkbox"/>	<b>COORDINATES:</b> (If UTM coords provided, Zone is also required) DecDegrees <input checked="" type="checkbox"/> DegMinSec <input type="checkbox"/> UTM's <input checked="" type="checkbox"/> <b>Lat / Northing:</b> <u>See attached data</u> <b>Long / Easting:</b> _____ <b>ZONE:</b> _____	<b>METHOD USED:</b> GPS <input checked="" type="checkbox"/> Differential GPS <input type="checkbox"/> Map <input type="checkbox"/> No. satellites: _____ Map used: _____ Boundary polygon captured: <input type="checkbox"/> Map scale: _____
<b>LAND TENURE:</b>		
Nature reserve <input type="checkbox"/>	Timber reserve <input type="checkbox"/>	Private property <input type="checkbox"/>
National park <input checked="" type="checkbox"/>	State forest <input type="checkbox"/>	Pastoral lease <input type="checkbox"/>
Conservation park <input type="checkbox"/>	Water reserve <input type="checkbox"/>	UCL <input type="checkbox"/>
		Rail reserve <input type="checkbox"/>
		MRWA road reserve <input checked="" type="checkbox"/>
		SLK/Pole _____ to _____
		Shire road reserve <input type="checkbox"/>
		Other Crown reserve <input type="checkbox"/>
		Specify other: _____

<b>AREA ASSESSMENT:</b> Edge survey <input type="checkbox"/> Partial survey <input type="checkbox"/> Full survey <input checked="" type="checkbox"/>	Area observed (m <sup>2</sup> ): <u>1046 ha</u>												
<b>EFFORT:</b> Time spent surveying (minutes): <u>28 days</u>	No. of minutes spent / 100 m <sup>2</sup> : _____												
<b>POP'N COUNT ACCURACY:</b> Actual <input checked="" type="checkbox"/> Extrapolation <input type="checkbox"/> Estimate <input checked="" type="checkbox"/>	Count method: _____ <small>(Refer to field manual for list)</small>												
<b>WHAT COUNTED:</b> Plants <input checked="" type="checkbox"/> Clumps <input type="checkbox"/> Clonal stems <input type="checkbox"/>													
<b>TOTAL POP'N STRUCTURE:</b>													
Alive	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:25%;">Mature:</th> <th style="width:25%;">Juveniles:</th> <th style="width:25%;">Seedlings:</th> <th style="width:25%;">Totals:</th> </tr> <tr> <td style="text-align: center;">1235 +</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Dead</td> <td></td> <td></td> <td></td> </tr> </table>	Mature:	Juveniles:	Seedlings:	Totals:	1235 +				Dead			
Mature:	Juveniles:	Seedlings:	Totals:										
1235 +													
Dead													
	Area of pop (m <sup>2</sup> ): _____ <small>Note: Pls record count as numbers (not percentages) for database.</small>												
<b>QUADRATS PRESENT:</b> No. _____ Size _____ Data attached <input type="checkbox"/>	Total area of quadrats (m <sup>2</sup> ): _____												
<b>Summary Quad. Totals: Alive</b>													
<b>REPRODUCTIVE STATE:</b> Clonal <input type="checkbox"/> Vegetative <input type="checkbox"/> Flowerbud <input checked="" type="checkbox"/> Flower <input checked="" type="checkbox"/>													
Immature fruit <input type="checkbox"/> Fruit <input checked="" type="checkbox"/> Dehisced fruit <input type="checkbox"/>	Percentage in flower: _____ %												

**CONDITION OF PLANTS:** Healthy  Moderate  Poor  Senescent

**COMMENT:** \_\_\_\_\_

THREATS - type, agent and supporting information:	Current impact (N-E)	Potential Impact (L-E)	Potential Threat Onset (S-L)
Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. Specify agent where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)			
• Clearing by MRWA for the Mitchell fwy extension from Hester Ave to Romeo Rd within Road reserve	L	L	M
•	---	---	---
•	---	---	---



# Threatened and Priority Flora Report Form

## HABITAT INFORMATION:

### LANDFORM:

- Crest
- Hill
- Ridge
- Outcrop
- Slope
- Flat
- Open depression
- Drainage line
- Closed depression
- Wetland

### ROCK TYPE:

- Granite
- Dolerite
- Laterite
- Ironstone
- Limestone
- Quartz
- Specify other: \_\_\_\_\_

### LOOSE ROCK:

- (on soil surface; eg gravel, quartz fields)
- 0-10%
  - 10-30%
  - 30-50%
  - 50-100%

### SOIL TYPE:

- Sand
- Sandy loam
- Loam
- Clay loam
- Light clay
- Peat
- Specify other: \_\_\_\_\_

### SOIL COLOUR:

- Red
- Brown
- Yellow
- White
- Grey
- Black
- Specify other: \_\_\_\_\_

### DRAINAGE:

- Well drained
- Seasonally inundated
- Permanently inundated
- Tidal

### Specific Landform Element:

(Refer to field manual for additional values)

### CONDITION OF SOIL:

- Dry
- Moist
- Waterlogged
- Inundated

### VEGETATION CLASSIFICATION\*:

Eg: 1. Banksia woodland (B. attenuata, B. ilicifolia);  
 2. Open shrubland (Hibbertia sp., Acacia spp.);  
 3. Isolated clumps of sedges (Mesomelaena tetragona)

1. Low heath of mixed species dominated by Melaleuca systema, Calothamnus quadrifidus subsp. quadrifidus, Acacia lasiocarpa var. lasiocarpa
2. mixed dense understorey (dominated by Desmocladus flexuosus, Mesomelaena pseudostygia and Lomandra maritima).
3. \_\_\_\_\_
4. \_\_\_\_\_

### ASSOCIATED SPECIES:

Other (non-dominant) spp \_\_\_\_\_

\* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formations should follow 2009 Australian Soil and Land Survey Field Handbook guidelines – refer to field manual for further information and structural formation table.

- CONDITION OF HABITAT: Pristine  Excellent  Very good  Good  Degraded  Completely degraded

### COMMENT:

FIRE HISTORY: Last Fire: Season/Month: \_\_\_\_\_ Year: 5<10yrs Fire Intensity: High  Medium  Low  No signs of fire

FENCING: Not required  Present  Replace / repair  Required  Length req'd: \_\_\_\_\_

ROADSIDE MARKERS: Not required  Present  Replace / reposition  Required  Quantity req'd: \_\_\_\_\_

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: SL012366

Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: \_\_\_\_\_ WA Herb.  Regional Herb.  District Herb.  Other: \_\_\_\_\_

ATTACHED: Map  Mudmap  Photo  GIS data  Field notes  Other: \_\_\_\_\_

COPY SENT TO: Regional Office  District Office  Other: \_\_\_\_\_

Submitter of Record: Angela Benkovic Role: Botanist Signed: [Signature] Date: 05/03/2019

Please return completed form to **Species And Communities Branch DBCA**, Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:

Sheet No.:

Record Entered in Database



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<b>TAXON:</b> <u>Pimelea calcicola</u>		<b>TPFL Pop. No.:</b> _____	
<b>OBSERVATION DATE:</b> <u>18/09/18 - 18/12/18</u>		<b>CONSERVATION STATUS:</b> <u>P3</u> <input type="checkbox"/> New population <input checked="" type="checkbox"/>	
<b>OBSERVER/S:</b> <u>Angela Benkovic and Erin Lynch</u>		<b>PHONE:</b> <u>62228361</u>	
<b>ROLE:</b> <u>Botanist</u>		<b>ORGANISATION:</b> <u>GHD</u>	

**DESCRIPTION OF LOCATION** (Provide at least nearest town/named locality, and the distance and direction to that place):  
Neerabup National Park and railway line. Within the proposed Mitchell Fwy extension corridor from Hester Ave to Romeo Rd

**Reserve No.:** R27575

<b>DBC DISTRICT:</b> <u>Swan Coastal</u>	<b>LGA:</b> <u>City of Wanneroo</u>	<b>Land manager present:</b> <input type="checkbox"/>
<b>DATUM:</b> GDA94 / MGA94 <input checked="" type="checkbox"/> AGD84 / AMG84 <input type="checkbox"/> WGS84 <input type="checkbox"/> Unknown <input type="checkbox"/>	<b>COORDINATES:</b> (If UTM coords provided, Zone is also required) DecDegrees <input checked="" type="checkbox"/> DegMinSec <input type="checkbox"/> UTM <input checked="" type="checkbox"/> <b>Lat / Northing:</b> <u>See attached data</u> <b>Long / Easting:</b> _____ <b>ZONE:</b> _____	<b>METHOD USED:</b> GPS <input type="checkbox"/> Differential GPS <input type="checkbox"/> Map <input type="checkbox"/> No. satellites: _____ Map used: _____ Boundary polygon captured: <input type="checkbox"/> Map scale: _____

**LAND TENURE:**

Nature reserve <input type="checkbox"/>	Timber reserve <input type="checkbox"/>	Private property <input type="checkbox"/>	Rail reserve <input type="checkbox"/>	Shire road reserve <input type="checkbox"/>
National park <input checked="" type="checkbox"/>	State forest <input type="checkbox"/>	Pastoral lease <input type="checkbox"/>	MRWA road reserve <input checked="" type="checkbox"/>	Other Crown reserve <input type="checkbox"/>
Conservation park <input type="checkbox"/>	Water reserve <input type="checkbox"/>	UCL <input type="checkbox"/>	SLK/Pole _____ to _____	Specify other: _____

**AREA ASSESSMENT:** Edge survey  Partial survey  Full survey  Area observed (m<sup>2</sup>): 1046 ha

**EFFORT:** Time spent surveying (minutes): 28 days No. of minutes spent / 100 m<sup>2</sup>: \_\_\_\_\_

**POP'N COUNT ACCURACY:** Actual  Extrapolation  Estimate  Count method: \_\_\_\_\_  
(Refer to field manual for list)

**WHAT COUNTED:** Plants  Clumps  Clonal stems

TOTAL POP'N STRUCTURE:	Mature:	Juveniles:	Seedlings:	Totals:
Alive	192			
Dead				

Area of pop (m<sup>2</sup>): \_\_\_\_\_  
Note: Pls record count as numbers (not percentages) for database.

**QUADRATS PRESENT:** No. \_\_\_\_\_ Size \_\_\_\_\_ Data attached  Total area of quadrats (m<sup>2</sup>): \_\_\_\_\_

Summary Quad. Totals: Alive \_\_\_\_\_

**REPRODUCTIVE STATE:** Clonal  Vegetative  Flowerbud  Flower   
Immature fruit  Fruit  Dehisced fruit  Percentage in flower: 90%

**CONDITION OF PLANTS:** Healthy  Moderate  Poor  Senescent

**COMMENT:** \_\_\_\_\_

THREATS - type, agent and supporting information:	Current impact (N-E)	Potential Impact (L-E)	Potential Threat Onset (S-L)
Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. Specify agent where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)			
• Clearing by MRWA for the Mitchell fwy extension from Hester Ave to Romeo Rd within Road reserve	L	L	M
• _____	_____	_____	_____
• _____	_____	_____	_____



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## HABITAT INFORMATION:

### LANDFORM:

- Crest
- Hill
- Ridge
- Outcrop
- Slope
- Flat
- Open depression
- Drainage line
- Closed depression
- Wetland

### ROCK TYPE:

- Granite
- Dolerite
- Laterite
- Ironstone
- Limestone
- Quartz

Specify other: \_\_\_\_\_

### Specific Landform Element:

(Refer to field manual for additional values)

### LOOSE ROCK:

(on soil surface; eg gravel, quartz fields)

- 0-10%
- 10-30%
- 30-50%
- 50-100%

### SOIL TYPE:

- Sand
- Sandy loam
- Loam
- Clay loam
- Light clay
- Peat

Specify other: \_\_\_\_\_

### SOIL COLOUR:

- Red
- Brown
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- White
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- Black

Specify other: \_\_\_\_\_

### DRAINAGE:

- Well drained
- Seasonally inundated
- Permanently inundated
- Tidal

### CONDITION OF SOIL:

- Dry
- Moist
- Waterlogged
- Inundated

### VEGETATION CLASSIFICATION\*:

Eg: 1. Banksia woodland (B. attenuata, B. ilicifolia);  
 2. Open shrubland (Hibbertia sp., Acacia spp.);  
 3. Isolated clumps of sedges (Mesomelaena tetragona)

1. Low heath of mixed species dominated by Melaleuca systema, Calothamnus quadrifidus subsp. quadrifidus, Acacia lasiocarpa var. lasiocarpa
2. mixed dense understorey (dominated by Desmodium flexuosum, Mesomelaena pseudostygia and Lomandra maritima).
- 3.
- 4.

### ASSOCIATED SPECIES:

Other (non-dominant) spp \_\_\_\_\_

\* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formations should follow 2009 Australian Soil and Land Survey Field Handbook guidelines – refer to field manual for further information and structural formation table.

- CONDITION OF HABITAT: Pristine  Excellent  Very good  Good  Degraded  Completely degraded

### COMMENT:

FIRE HISTORY: Last Fire: Season/Month: \_\_\_\_\_ Year: 5>10yrs\_ Fire Intensity: High  Medium  Low  No signs of fire

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Submitter of Record: Angela Benkovic Role: Botanist Signed: Benkovic Date: 05/03/2019

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Version 1.3 August 2017

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<b>TAXON:</b> <u>Leucopogon sp. Yanchep</u>		<b>TPFL Pop. No.:</b> _____	
<b>OBSERVATION DATE:</b> <u>18/09/18 - 18/12/18</u>		<b>CONSERVATION STATUS:</b> <u>P3</u> <span style="float:right">New population <input checked="" type="checkbox"/></span>	
<b>OBSERVER/S:</b> <u>Angela Benkovic and Erin Lynch</u>		<b>PHONE:</b> <u>62228361</u>	
<b>ROLE:</b> <u>Botanist</u>		<b>ORGANISATION:</b> <u>GHD</u>	

**DESCRIPTION OF LOCATION** (Provide at least nearest town/named locality, and the distance and direction to that place):  
Between Neerabup National Park and railway line. Within the proposed Mitchell Fwy extension corridor from Hester Ave to Romeo road

**Reserve No.:** R27575

<b>DBC DISTRICT:</b> <u>Swan Coastal</u>		<b>LGA:</b> <u>City of Wanneroo</u>		<b>Land manager present:</b> <input type="checkbox"/>	
<b>DATUM:</b>		<b>COORDINATES:</b> (If UTM coords provided, Zone is also required)		<b>METHOD USED:</b>	
GDA94 / MGA94 <input checked="" type="checkbox"/> AGD84 / AMG84 <input type="checkbox"/> WGS84 <input type="checkbox"/> Unknown <input type="checkbox"/>		DecDegrees <input type="checkbox"/> DegMinSec <input type="checkbox"/> UTM's <input checked="" type="checkbox"/> <b>Lat / Northing:</b> <u>See attached data</u> <b>Long / Easting:</b> _____ <b>ZONE:</b> _____		GPS <input type="checkbox"/> Differential GPS <input type="checkbox"/> Map <input type="checkbox"/> No. satellites: _____    Map used: _____ Boundary polygon captured: <input type="checkbox"/> Map scale: _____	
<b>LAND TENURE:</b>					
Nature reserve <input type="checkbox"/>		Timber reserve <input type="checkbox"/>		Private property <input type="checkbox"/>	
National park <input checked="" type="checkbox"/>		State forest <input type="checkbox"/>		Pastoral lease <input type="checkbox"/>	
Conservation park <input type="checkbox"/>		Water reserve <input type="checkbox"/>		UCL <input type="checkbox"/> SLK/Pole _____ to _____	
				Rail reserve <input type="checkbox"/> Shire road reserve <input type="checkbox"/>	
				MRWA road reserve <input checked="" type="checkbox"/> Other Crown reserve <input type="checkbox"/>	
				Specify other: _____	

**AREA ASSESSMENT:** Edge survey     Partial survey     Full survey     Area observed (m<sup>2</sup>): 1046 ha

**EFFORT:** Time spent surveying (minutes): 28 days    No. of minutes spent / 100 m<sup>2</sup>: \_\_\_\_\_

**POP'N COUNT ACCURACY:** Actual     Extrapolation     Estimate     Count method: \_\_\_\_\_  
(Refer to field manual for list)

**WHAT COUNTED:** Plants     Clumps     Clonal stems

<b>TOTAL POP'N STRUCTURE:</b>	<b>Mature:</b>	<b>Juveniles:</b>	<b>Seedlings:</b>	<b>Totals:</b>	<b>Area of pop (m<sup>2</sup>):</b> _____ <small>Note: Pls record count as numbers (not percentages) for database.</small>
	Alive	1756 +			
	Dead				

**QUADRATS PRESENT:** No. \_\_\_\_\_    Size \_\_\_\_\_    Data attached     Total area of quadrats (m<sup>2</sup>): \_\_\_\_\_

**Summary Quad. Totals: Alive**

<b>REPRODUCTIVE STATE:</b>	Clonal <input type="checkbox"/>	Vegetative <input type="checkbox"/>	Flowerbud <input type="checkbox"/>	Flower <input checked="" type="checkbox"/>
	Immature fruit <input type="checkbox"/>	Fruit <input checked="" type="checkbox"/>	Dehisced fruit <input type="checkbox"/>	Percentage in flower: <u>5%</u>

**CONDITION OF PLANTS:** Healthy     Moderate     Poor     Senescent

**COMMENT:** \_\_\_\_\_

<b>THREATS - type, agent and supporting information:</b> <small>Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats &amp; agents. Specify agent where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (&lt;12mths), M=Medium (&lt;5yrs), L=Long (5yrs+)</small>	Current impact (N-E)	Potential Impact (L-E)	Potential Threat Onset (S-L)
• Clearing by MRWA for the Mitchell fwy extension from Hester Ave to Romeo Rd within Road reserve	L	L	M
• _____	_____	_____	_____
• _____	_____	_____	_____



# Threatened and Priority Flora Report Form

## HABITAT INFORMATION:

<b>LANDFORM:</b>	<b>ROCK TYPE:</b>	<b>LOOSE ROCK:</b>	<b>SOIL TYPE:</b>	<b>SOIL COLOUR:</b>	<b>DRAINAGE:</b>
Crest <input type="checkbox"/>	Granite <input type="checkbox"/>	(on soil surface; eg gravel, quartz fields)	Sand <input checked="" type="checkbox"/>	Red <input type="checkbox"/>	Well drained <input checked="" type="checkbox"/>
Hill <input type="checkbox"/>	Dolerite <input type="checkbox"/>		Sandy loam <input type="checkbox"/>	Brown <input type="checkbox"/>	Seasonally inundated <input type="checkbox"/>
Ridge <input type="checkbox"/>	Laterite <input type="checkbox"/>		Loam <input type="checkbox"/>	Yellow <input type="checkbox"/>	Permanently inundated <input type="checkbox"/>
Outcrop <input checked="" type="checkbox"/>	Ironstone <input type="checkbox"/>	0-10% <input type="checkbox"/>	Clay loam <input type="checkbox"/>	White <input type="checkbox"/>	Tidal <input type="checkbox"/>
Slope <input type="checkbox"/>	Limestone <input checked="" type="checkbox"/>	10-30% <input checked="" type="checkbox"/>	Light clay <input type="checkbox"/>	Grey <input checked="" type="checkbox"/>	
Flat <input type="checkbox"/>	Quartz <input type="checkbox"/>	30-50% <input type="checkbox"/>	Peat <input type="checkbox"/>	Black <input type="checkbox"/>	
Open depression <input type="checkbox"/>	Specify other: _____	50-100% <input type="checkbox"/>	Specify other: _____	Specify other: _____	
Drainage line <input type="checkbox"/>					
Closed depression <input type="checkbox"/>					
Wetland <input type="checkbox"/>					
<b>CONDITION OF SOIL:</b>	Dry <input checked="" type="checkbox"/>	Moist <input type="checkbox"/>	Waterlogged <input type="checkbox"/>	Inundated <input type="checkbox"/>	

## VEGETATION CLASSIFICATION\*:

Eg: 1. Banksia woodland (B. attenuata, B. ilicifolia);  
2. Open shrubland (Hibbertia sp., Acacia spp.);  
3. Isolated clumps of sedges (Mesomelaena tetragona)

- Low heath of mixed species dominated by Melaleuca systema, Calothamnus quadrifidus subsp. quadrifidus, Acacia lasiocarpa var. lasiocarpa
- mixed dense understorey (dominated by Desmodium flexuosum, Mesomelaena pseudostygia and Lomandra maritima).
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- 

## ASSOCIATED SPECIES:

Hakea trifurcata and H. lissocarpa

Other (non-dominant) spp \_\_\_\_\_

\* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formations should follow 2009 Australian Soil and Land Survey Field Handbook guidelines – refer to field manual for further information and structural formation table.

**CONDITION OF HABITAT:** Pristine  Excellent  Very good  Good  Degraded  Completely degraded

## COMMENT:

**FIRE HISTORY:** Last Fire: Season/Month: \_\_\_ Year: \_5>10yrs\_\_\_ Fire Intensity: High  Medium  Low  No signs of fire

**FENCING:** Not required  Present  Replace / repair  Required  Length req'd: \_\_\_\_\_

**ROADSIDE MARKERS:** Not required  Present  Replace / reposition  Required  Quantity req'd: \_\_\_\_\_

**OTHER COMMENTS:** (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.)

**DRF PERMIT/ LICENCE No:** SL012366 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under licence/permit should be recorded above in the OTHER COMMENTS section.

**SPECIMEN:** Collectors No: \_\_\_\_\_ WA Herb.  Regional Herb.  District Herb.  Other: \_\_\_\_\_

**ATTACHED:** Map  Mudmap  Photo  GIS data  Field notes  Other: \_\_\_\_\_

**COPY SENT TO:** Regional Office  District Office  Other: \_\_\_\_\_

Submitter of Record: Angela Benkovic Role: Botanist Signed: Benkovic Date: 05/03/2019

Please return completed form to **Species And Communities Branch DBCA**,  
Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au

**RECORDS:** Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:

Sheet No.:

Record Entered in Database