### DEPT CONSERVATION AND LAND MANAGEMENT

## SEDGELANDS IN HOLOCENE DUNE SWALES RECOVERY TEAM



ANNUAL REPORT 2004

By Val English

For the Sedgelands in Holocene Dune Swales Recovery Team

Department of Conservation and Land Management WA Threatened Species and Communities Unit Woodvale

#### **Summary**

The Sedgelands in Holocene Dune Swales community was assessed as a critically endangered ecological community in 1996. The community is also listed as Endangered under the Commonwealth *Environment Protection and Biodiversity Conservation Act* 1999.

Since June 1996, the Sedgelands in Holocene Dune Swale Recovery Team coordinated the development and implementation of the Interim Recovery Plan. This report outlines the progress made in implementing the Interim Recovery Plan during January–December 2004, following the completion of the plan in May 2002.

Members of the team dealt with a series of issues in 2004 including areas that contain the sedgeland community and are the subject of proposals for reservation or development.

Members of the Recovery Team have provided advice and recommendations with regard the possible reservation of areas of the community in Industrial Park 14 (IP14), Lot 17 Bakewell Drive, the next stage of the Port Kennedy Golf Course, Lark Hill, and other areas proposed for development. Negotiations are continuing. The EPA Service Unit sought advice on the Scoping Document for IP14 from the Chair of the Team, and this was provided.

The Recovery Team have sought advice on buffers required to help maintain the hydrology of this community. This advice has been provided to decision making bodies such as the Department of Environment (DoE).

#### Introduction

The Sedgelands in Holocene Dune Swales community was assessed as a critically endangered ecological community in 1996. The community is also listed as Endangered under the Commonwealth *Environment Protection and Biodiversity Conservation Act* 1999.

The community occurs in linear damplands and occasionally sumplands (wetlands) between Holocene dunes formed over the last 7 000 years. Typical native species in the community include the shrubs *Muehlenbeckia adpressa*, *Acacia saligna* and *Xanthorrhoea preissii*, and the herbs *Baumea juncea*, *Isolepis nodosa*, and *Poa porphyroclados*.

When conserved as a representative unit the range of different ages of the wetlands along the coastal evolutionary sequence, in association with their geomorphic history, provide important opportunities for research on wetland evolution.

The community is known from the following areas (note: these are the locations of individual swales, or uncleared portions of swales):

Table 1: Extent and location of occurrences

Table 1:	Extent and location of occurrences				
Occurrence	Location	Land	Land	<b>Estimated</b>	
number		tenure	manager	area (ha)	
1	Port Kennedy Scientific Park	Nature	CALM	21.63	
	#44077 (PB01,	Reserve			
	PtBecher01NORTH,				
	PtBecher01SOUTH)				
2	Port Kennedy Scientific Park	Nature	CALM	2.58	
	#44077 (PB06)	Reserve			
3	Lot 461, Safety Bay Rd	Freehold	CALM	2.67	
	(COOL09)				
4	Reserve 9458, Lot 8001	Crown	City of	8.1	
	(RICH01,02,03,04)	Reserve;	Rockingham;		
		Freehold	WA Planning		
			Commission		
5	Lot 8001, Lake Richmond	Freehold	WA Planning	0.57	
	(RICH05)		Commission		
6	Lot 1492 Office Rd East	Freehold	Private	0.4	
	Rockingham (IP14-07)		company		
7	Lot 1492 Office Rd East	Freehold	Private	0.6	
	Rockingham (IP14-06)		company		
8	Lot 1492 Office Rd East	Freehold	Private	1.5	
	Rockingham (IP-14-05)		company		
9	Lot 1492 Office Rd East	Freehold	Private	0.92	
	Rockingham (IP14-02)		company		
10	Lot 1492, Office Rd East	Freehold	Private	0.91	
	Rockingham, Lot 220		company		
	Chesterfield Rd (IP14-08)				
11	Lot 1492, Office Rd East	Freehold	Private	1.17	
	Rockingham (IP14-09)		company		
13	Lot 1492, Office Rd East	Freehold	Private	3.55	
	Rockingham (IP14-03,04)		company		
14	Yanchep National Park 9868,	National	CALM	0.2	
	Yanchep (XYAN10)	Park			
15	Reserve 18452 (Lot 22 Dixon	Crown	CALM	0.5	
	Rd) (COOL14)	Reserve			
16	Reserve 18452 (Lot 22 Dixon	Crown	CALM	0.5	
	Rd) (COOL15)	Reserve			
17	Lot 0, Dixon Rd Cooloongup	Freehold	CALM	0.3	
	(MYCOOL01)				
18	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.25	
	(PtKennedy98)		Commission		
19	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.31	
	(PtKennedy101)		Commission		
20	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.4	
	(PtKennedy103)		Commission		
21	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.093	
	(PtKennedy95)		Commission		
22	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.16	
	(PtKennedy104)		Commission		

Commission	23	Lot 767,768 Forty Rd Larkhill	Freehold	Water	1.75
24	23	· · · · · · · · · · · · · · · · · · ·	Precioid		1.73
Commission   Commission   Commission		(I tReilledy28)			
24				_	
CLARKHILL30	24	Lot 884 Stakehill Rd	Freehold		1.64
25	24		raccioid		1.04
CLARKHILL17    Commission   0.31	25	` '	Frashold		0.27
26	23	·	rieenoid		0.27
Carrelle   Commission   Commi	26	` /	Frankald		0.21
27	20	*	Freenoid		0.31
Commission	27		E 1 11		0.007
28	27	1	Freenoid	_	0.097
CARKHILL23	20		E 1 11		0.16
Lot 2, Warnbro Sound Ave (LARKHILL24)	28	1	Freehold	_	0.16
CLARKHILL24  Commission   CLARKHILL26  Commission   CLARKHILL26  Commission   CLARKHILL27  Commission   CLARKHILL29  Commission   CLARKHILL29  Commission   CLARKHILL29  Commission   CLARKHILL29  Commission   Commission   ClarkHILL29  Commission   Commission   ClarkHILL29  Commission   Commission   Commission   Commission   Commission   Commission   Commission   Commission   Commission   City of   Company	20	` ′			1 11
30	29	1	Freehold		1.41
CLARKHILL26  Commission   CLARKHILL27    Commission   CLARKHILL27    COmmission   CLARKHILL27    COmmission   CLARKHILL27    COmmission   CLARKHILL27    COmmission   CLARKHILL29    CLARKHILL29    CLARKHILL29    COmmission   Commission   ClarkHILL29    Commission   Commission   Commission   Commission   Commission   Commission   Commission   Commission   Commission   Company   Clity of   Commission   Company   Clity of   Commission   Clity of   Commission   Company   Clity of   Clity		` ′			
31	30	·	Freehold		0.54
CLARKHILL27    Commission		` ,			
32	31		Freehold	U	0.51
Commission   Commission   Commission   Company   Company   Company   City of   City of   Company   City of   Company   City of   City of   Company   City of   Company   City of   Company   Company   City of   City of   Company   City of   City of   Company   Compa		` ,			
SECRETHARBOUR16   Seerve   S	32	1	Freehold	_	0.28
SECRETHARBOUR16   Company   City of   GOLDENBAY01   Reserve   Rockingham   Company   Secret Harbour   Freehold   Private   Company   Company   Secret Harbour				Commission	
Reserve 42734	33	Lot 52 Anstey Rd	Freehold	Private	5.6
GOLDENBAY01   Reserve   Rockingham		(SECRETHARBOUR16)		company	
SECRETHARBOUR46    Freehold   Private company   Compan	34	Reserve 42734	Crown	City of	5.0
SECRETHARBOUR46    Company   Freehold   Private   Company		(GOLDENBAY01)	Reserve	Rockingham	
Secret Harbour (SECRETHARBOUR42)	35	Lot 94 Secret Harbour	Freehold	Private	0.6
Secret Harbour (SECRETHARBOUR42)		(SECRETHARBOUR46)		company	
Lot 51, 12 Anstey Rd,Reserve 34664 (GOLDENBAY57, SECRETHARBOUR54)   State Housing Commission, City of Rockingham	36	Lot 94 Secret Harbour	Freehold		1.0
Lot 51, 12 Anstey Rd,Reserve 34664 (GOLDENBAY57, SECRETHARBOUR54)   State Housing Commission, City of Rockingham		(SECRETHARBOUR42)		company	
34664 (GOLDÉNBAY57, SECRETHARBOUR54)  Freehold Private company  SECRETHARBOUR54)  SECRETHARBOUR54)  SECRETHARBOUR54)  Freehold Private company  SECRETHARBOUR54  SECRETHARBOUR54)  SECRETHARBOUR54)  SECRETHARBOUR54)  Freehold Private company  SECRETHARBOUR54  SECRETHARBOUR54)  SECRETHARBOUR54  SECRETHARBOU	37	,	Freehold:		10.3
SECRETHARBOUR54)  SECRETHARBOUR54)  reserve  State Housing Commission, City of Rockingham  Rockingham  SECRETHARBOUR54)  Rockingham  Company  SECRETHARBOUR54)  Rockingham  Lot 605 Pt Kennedy Dve, Pt Kennedy (PTKENNEDY23)  Lot 605 Pt Kennedy Dve, Pt Kennedy (PTKennedy26)  Lot 605 Pt Kennedy Dve, Pt Kennedy (PtKennedy18)  Reserve 44886 (PtKennedy18)  Reserve 44886 (PtKennedy50)  Reserve City of Rockingham  Reserve 44886 (PtKennedy16)  Reserve City of Rockingham  Reserve 44886 (PtKennedy49)  Reserve City of Rockingham  Rockingham  Lot 328, Safety Bay Rd Warnbro (Walyungup01)  Lot 17, Warnbro Sound Ave (PtKennedy113)  Freehold WA Planning Commission  O.18			*		
Housing Commission, City of Rockingham  38 Lot 605 Pt Kennedy Dve, Pt Kennedy (PTKENNEDY23)  39 Lot 605 Pt Kennedy Dve, Pt Kennedy (PTKennedy26)  40 Lot 605 Pt Kennedy Dve, Pt Kennedy (PtKennedy18)  41 Reserve 44886 (PtKennedy50)  42 Reserve 44886 (PtKennedy16)  43 Reserve 44886 (PtKennedy49)  44 Lot 328, Safety Bay Rd Warnbro (Walyungup01)  45 Lot 17, Warnbro Sound Ave (PtKennedy113)  Housing Commission  Freehold Private company  1.65  2.57  2.57  2.60  3.87  3.87  4.60  4.60  4.60  4.60  4.7					
Commission, City of Rockingham  38 Lot 605 Pt Kennedy Dve, Pt Kennedy (PTKENNEDY23)  39 Lot 605 Pt Kennedy Dve, Pt Kennedy (PTKennedy26)  40 Lot 605 Pt Kennedy Dve, Pt Kennedy (PtKennedy18)  41 Reserve 44886 (PtKennedy50)  42 Reserve 44886 (PtKennedy16)  43 Reserve 44886 (PtKennedy49)  44 Lot 328, Safety Bay Rd Warnbro (Walyungup01)  45 Lot 17, Warnbro Sound Ave (PtKennedy113)  Commission, City of Rockingham  Freehold Reserve  City of Rockingham  City of Rockingham  CALM  1  CALM  1  Commission  Commission  Commission  Commission  Commission  Company  A.S. Freehold Rockingham  CALM  CALM  CALM  COMMISSION  Commission  Commission  Commission		22012111112001101)	1050110		
City of Rockingham   Rockingham   Reserve 44886 (PtKennedy16)   Reserve 44886 (PtKennedy16)   Reserve 44886 (PtKennedy49)   Reserve 64886 (PtKennedy49)   Reserve 74886 (PtKennedy49)				_	
Rockingham   Rockingham   38					
Second				_	
Kennedy (PTKENNEDY23)  39 Lot 605 Pt Kennedy Dve, Pt Kennedy (PTKennedy26)  40 Lot 605 Pt Kennedy Dve, Pt Kennedy (PtKennedy18)  41 Reserve 44886 (PtKennedy50)  42 Reserve 44886 (PtKennedy16)  43 Reserve 44886 (PtKennedy49)  44 Lot 328, Safety Bay Rd Warnbro (Walyungup01)  45 Lot 17, Warnbro Sound Ave (PtKennedy13)  Company  Freehold Private company  Freehold Private company  City of Reserve City of Reserve City of Rockingham  Reserve City of Rockingham  Freehold CALM  1  CALM  Online  Commission  Commission	38	Lot 605 Pt Kennedy Dve Pt	Freehold		0.20
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Kennedy (PtKennedy18)         company           41         Reserve 44886 (PtKennedy50)         Reserve         City of Rockingham         0.65           42         Reserve 44886 (PtKennedy16)         Reserve         City of Rockingham         3.87           43         Reserve 44886 (PtKennedy49)         Reserve         City of Rockingham         1.86           44         Lot 328, Safety Bay Rd Warnbro (Walyungup01)         Freehold CALM         1           45         Lot 17, Warnbro Sound Ave (PtKennedy113)         Freehold WA Planning Commission         0.18	40		Freehold		3 57
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(PtKennedy113) Commission					
	45	· · · · · · · · · · · · · · · · · · ·	Freehold		0.18
46 Lot 581 Warnbro Sound Ave Freehold WA Planning 0.1				Commission	
·	46	Lot 581 Warnbro Sound Ave	Freehold	WA Planning	0.1

	(PtKennedy121)		Commission	
47	Lot 581 Warnbro Sound Ave	Freehold	WA Planning	0.13
47	(PtKennedy120)	Prechold	Commission	0.13
48	Port Kennedy Scientific Park	Nature	CALM	0.36
40	#44077 (PointBecher32)	Reserve	CALIVI	0.30
49	Port Kennedy Scientific Park	Nature	CALM	0.38
49	#44077 (PointBecher01)	Reserve	CALIVI	0.36
50	Port Kennedy Scientific Park	Nature	CALM	0.77
30	#44077 (PointBecher02)	Reserve	CALIVI	0.77
51	Port Kennedy Scientific Park	Nature	CALM	1.89
31	#44077 (PointBecher07)	Reserve	CALIVI	1.09
52	Port Kennedy Scientific Park	Nature	CALM	0.5
32	#44077 (PointBecher35)	Reserve	CALIVI	0.5
53	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.057
33	(Pt Kennedy 94)	Prechola	Commission	0.037
54	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.058
34	(Pt Kennedy 91)	ricellolu	Commission	0.038
55	Lot 17, Warnbro Sound Ave	Freehold	+	0.056
33	(Pt Kennedy 92)	ricellola	WA Planning Commission	0.036
56	` ' '	Freehold		0.152
30	(Lot 17, Warnbro Sound Ave Pt Kennedy 100)	1.16611010	WA Planning Commission	0.132
57	Lot 17, Warnbro Sound Ave	Freehold		0.056
37	1	rieelioid	WA Planning Commission	0.036
58	(Pt Kennedy 90) Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.15
36	(Pt Kennedy 97)	rieelioid	Commission	0.13
59		Nature	CALM	0.71
39	Port Kennedy Scientific Park #44077 (PointBecher03)	Reserve	CALM	0.71
60	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.16
00	(Pt Kennedy 96)	rieelioid	WA Planning Commission	0.16
61	Lot 581 Warnbro Sound Ave	Freehold	WA Planning	0.15
01	(Pt Kennedy 116)	Prechola	Commission	0.13
62	Lot 766 Forty Rd, Port	Freehold	Water	0.38
02	Kennedy (Pt Kennedy 123)	Prechola	Corporation	0.36
63	Lots 766,767 Forty Rd Port	Freehold	Water	1.15
0.3		Prechola		1.13
65	Kennedy (Pt Kennedy 25) Lot 766, Forty Rd Port	Freehold	Corporation Water	0.08
0.5	Kennedy (Pt Kennedy 122)	Prechola	Corporation	0.08
66	Port Kennedy Scientific Park	Nature	CALM	10.31
00	#44077 (PtBecher38Sc)	Reserve	CALIVI	10.51
67	Lot 1492 Office Rd East	Freehold	Private	2.9
0,	Rockingham (IP14-	1 icciioiu	company	2.)
	10CENTRE,NORTH,SOUTH)		Company	
68	Lot 1492 Office Rd East	Freehold	Private	4.2
30	Rockingham (IP14-11,IP14-	110011010	company	7.2
	11CENTRE,NORTH,SOUTH)			
69	Lot 582 Warnbro Sound Ave	Freehold	WA Planning	0.061
	(Pt Kennedy 118)	110011010	Commission	0.001
70	Lot 582 Warnbro Sound Ave	Freehold	WA Planning	0.14
, ,	(Pt Kennedy 119)		Commission	J. 2 .
71	Lot 17, Warnbro Sound Ave	Freehold	WA Planning	0.04
, -	(Pt Kennedy new 01)	110011010	Commission	5.5 .
72	Lot 461, Safety Bay Rd	Freehold	CALM	0.86
	(Walyungup02)	110011010		5.00
73	Lot 461, Safety Bay Rd	Freehold	CALM	0.2
	200 .01, Salety Bay Ita	110011010	Ç1 1221/1	V. <b>-</b>

	(Walyungup03)			
75	Lot 461,19 Safety Bay Rd,	Freehold,	CALM	18.78
	Reserve 23780	Crown		
	(Walyungup04,05)	reserve		
78	Port Kennedy Scientific Park	Nature	CALM	0.1
	#44077 (MYPoint Becher01)	Reserve		
79	Lot 1492 Office Rd East	Freehold	Private	1.8
	Rockingham (IP14-01)		company	
80	Port Kennedy Scientific Park	Nature	CALM	0.67
	#44077 (MYPoint Becher02)	Reserve		
81	Port Kennedy Scientific Park	Nature	CALM	0.11
	#44077 (MYPoint Becher03)	Reserve		
82	Port Kennedy Scientific Park	Nature	CALM	0.09
	#44077 (MYPoint Becher04)	Reserve		
83	Port Kennedy Scientific Park	Nature	CALM	0.18
	#44077 (MYPoint Becher05)	Reserve		
84	Port Kennedy Scientific Park	Nature	CALM	0.11
	#44077 (MYPoint Becher06)	Reserve		
85	Port Kennedy Scientific Park	Nature	CALM	0.13
	#44077 (MYPoint Becher07)	Reserve		
86	Port Kennedy Scientific Park	Nature	CALM	0.17
	#44077 (MYPoint Becher08)	Reserve		
87	Lot 692 Port Kennedy Drive	Unvested	DOLA	0.92
	(MYPoint Becher09)	Crown Land		
88	Lot 9011 Warnbro Sound Ave	Freehold	Private	0.1
	(Secret Harbour 168)		company	
89	Lot 9011 Warnbro Sound Ave	Freehold	Private	0.28
	(Secret Harbour 19)		company	
90	Lot 9011 Warnbro Sound Ave	Freehold	Private	0.13
	(Secret Harbour 20)		company	
91	Lot 9011 Warnbro Sound Ave	Freehold	Private	0.10
	(Secret Harbour 169)		company	

The most typical form occurs in the Becher Suite within the Port Kennedy Scientific Park, a Class A Nature Reserve (Rockingham – Becher plain).

The sedgeland community is threatened by clearing, changes to hydrological processes, weed invasion, inappropriate fire regimes, erosion by wind and water, disturbance due to recreational use/maintenance activities, and grazing by rabbits.

Since June 1996, the Sedgelands in Holocene Dune Swale Recovery Team coordinated the development and implementation of the Interim Recovery Plan. This report outlines the progress made in implementing the Interim Recovery Plan during January –December 2004, following the completion of the plan in May 2002.

#### **Recovery Team**

Members of the team include:

- Ms Valerie English (Chair) (WA Threatened Species and Communities Unit, CALM). (Replaces previous Chair John Blyth, who resigned from the Team in February 2003).
- Dr Neil Gibson (Woodvale Research, CALM)

- Dr Jenny Davies (Murdoch University)
- Dr Phil Jennings (Murdoch University)
- Mr Ian Barker (City of Rockingham) (replaced John Tucker from City of Rockingham in 2003)
- Mr Tim Bowra (Regional Parks Co-ordinator, CALM)

The Recovery Team did not meet in 2004, but a meeting is planned for early 2005. Members of the team dealt with a series of issues in 2004 including areas that contain the sedgeland community and are the subject of proposals for reservation or development.

#### Major issues addressed during 2004.

- Waikiki Station. The alignment for the Perth to Mandurah rail line proposed by New MetroRail will result in impacts to an occurrence of the sedgeland community at Waikiki. A consultant has developed a draft weed management plan for this site, and members of the Recovery Team made a series of recommendations about this plan.
- **Port Kennedy Golf Course**. In December 2004, the proponents and their consultant referred the new proposal for development of the next stage of the Port Kennedy Golf Course for assessment under the Commonwealth *Environment Protection and Biodiversity Act 1999* (EPBC Act). The new proposal has been scaled-down from that originally proposed. Members of the Recovery Team will seek a meeting with regard to the future management of the wetlands within the development site.
- Lot 17 Bakewell Drive. The Chair of the Recovery Team met on-site with staff from the Bush Forever Office, a local conservation group, and a representative from CALM's Regional Parks group to discuss possible reserve boundaries at Lot 17 Bakewell Drive. It was noted that two of the most significant wetlands at this site had been recently burnt in a hot fire and were suffering massive weed invasion. A local conservation group is interested in undertaking weed control at the site, and LandCorp are supportive of this proposal.
- Lot 40, Forty Rd, Rockingham. A small and somewhat degraded area of the community occurs on this proposed development site. The West Australian Planning Commission has approved the development plan for the site, subject to a series of conditions. These include that a wetland management and Threatened Ecological Community Monitoring Plan be prepared and implemented for the Conservation Category Wetland and its associated buffer. This plan will need to be approved by the Department of Environment (DoE) and Local Government prior to commencement of site works.
- Lark Hill. Members of the Recovery Team continued to negotiate with regard to the management of the sedgeland community at Lark Hill. Development of the Lark Hill Sporting and Equestrian Centre commenced in 2004, with buffers of at least 50m around each wetland. It is unlikely that the developer's original proposal to pump groundwater from surrounding urbanised areas into the groundwater at this site for use in irrigation will be pursued. The water from surrounding urban areas is likely to be pumped into lined tanks or a lined dam at the site.

## **Recovery Actions**

This section summarises progress on implementing actions in the Interim Recovery Plan during 2004.

#### 3.4 Minimise further clearing of the community

Further clearing or destruction by other means especially of good examples of the older stages of the wetland will be minimised wherever possible by acquisition, negotiation and planning.

Members of the Recovery Team have provided advice and recommendations with regard the possible reservation of areas of the community in IP14, Lot 17 Bakewell Drive, the next stage of the Port Kennedy Golf Course, Lark Hill, and other areas proposed for development. Negotiations are continuing.

#### 3.6 Maintain hydrology and water quality

A strategy will be designed to ensure watertable height and water quality remain appropriate to the natural wetland community, through monitoring and ongoing management. This strategy will be incorporated into the full Recovery Plan if required.

Members of the Recovery Team have sought advice on buffers required to help maintain the hydrology of this community. This advice has been provided to decision making bodies such as DoE.

### 3.11 Report on success of management strategies for wetlands

Annual reports will be prepared by the Recovery Team.

This report completes this action for 2004.

#### 3.12 Ensure any tourist developments do not impact the swale community

The site of any tourist developments or displays will be designed to minimise impact on the swale community and will provide information on the significance of the wetland areas, the need to conserve them, and how this is being done. This will be done as part of the Rockingham Lakes Regional Park Management Plan.

The next stage of the Port Kennedy Golf Course adjacent to Port Kennedy Scientific Park was referred to the Commonwealth Department of Environment and Heritage in December 2004. This includes development of a carpark immediately south of Port Kennedy Drive. The referral states that the proposal does not impact on the sedgeland community.

# 3.26 Negotiate for appropriate management of other occurrences in Port Kennedy, outside Port Kennedy Scientific Park

The land tenure of the occurrences of the sedgeland community north of Port Kennedy Drive, and between Bakewell Drive and Ennis Avenue will be identified. Appropriate management actions to conserve the community will then be determined, including negotiations for declaration of areas as conservation reserve if necessary.

As mentioned, members of the Recovery Team have provided advice and recommendations with regard the possible reservation of areas of the community in IP14, Lark Hill, Forty Rd, and Lot 17 Bakewell Drive. Negotiations are continuing.

## 3.31 Incorporate management strategies into planning for the Lark Hill Regional Sport and Recreation complex

Planning for the Lark Hill Regional Sport and Recreation Complex needs to address reservation of wetland areas, and adequate buffers around each wetland site; controlling access through fencing; developing and implementing an appropriate fire regime; monitoring and responding to wetland condition, water levels and quality; and weed and rabbit control.

As mentioned members of the Recovery Team have sought and provided advice and recommendations with regard the buffers and maintaining water levels for wetlands at this site.

#### 3.32 Negotiate for appropriate management of the community at IP 14

The land tenure of the sedgeland community at IP14, including the bushland area bounded by the Rockingham rail loop will be identified. Appropriate management actions to conserve the community will then be determined, including negotiations for declaration as conservation reserve if necessary.

As mentioned members of the Recovery Team have continued to negotiate with all stakeholders with regard to appropriate boundaries for a reserve at IP14.

The EPA Service Unit sought advice on the Scoping Document for this site from the Chair of the Team, and this was provided.