



**THREATENED SPECIES AND/OR COMMUNITIES RECOVERY TEAM**

**PROGRAM INFORMATION**

<b>Recovery Team name</b>	'Sedgeland in Holocene dune swales Recovery Team'
<b>Reporting Period (Calendar Year)</b>	<b>Calendar year 2007</b>

**Current membership**

	<b>Member</b>	<b>Representing</b>
1. Chair	<b>Ms Val English</b>	DEC
2. EXEC OFFICER		
3.	<b>Dr Neil Gibson</b>	DEC Science Division
4	<b>Professor Phillip Jennings</b>	Wetlands Conservation Society
5.	<b>Ms Renee Miles</b>	DEC Regional Parks
6	<b>Mr James Henson</b>	City of Rockingham

<b>Dates meetings were held</b>	1 May 2007
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<b>One to two paragraph summary of achievements suitable for WATSNU</b>	<p><b>Summary</b></p> <p>Members of the Recovery Team for the 'sedgeland in Holocene dune swales' dealt with a series of issues in 2007 including negotiations and advice about areas that contain the sedgeland community and are the subject of proposals for reservation or development. In particular, members of the Recovery Team were involved in negotiations to minimise impacts with regard to development of land and managing illegal access at Industrial Park 14 (IP14), and at Port Kennedy Golf Course.</p> <p>An additional occurrence of the community in very good condition was located near Bunbury (Muddy Lakes) as part of the Swan Bioplan project. This represents a significant range extension for the community.</p> <p>Under the direction of DEC's Community and Regional Parks Branch, <i>Euphorbia terracina</i> control was continued in two large occurrences of the sedgeland community within Port Kennedy Scientific Park. <i>Juncus acutus</i> control was also continued in Lake Walyungup and Lake Coo loongup Parks.</p> <p>Four new quadrats were established and flora species present in four other quadrats were rescored in a series of sedgeland areas in</p>
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	<p>2007 by DEC staff. The data from the plots will be used to help monitor condition and composition in sedgeland areas located in Lake Coo loongup reserve, Port Kennedy Scientific Park, Golden Bay, Anstey Swamp, and IP14.</p>
<p>List of actions undertaken by Recovery Team (from actions in Recovery Plan)</p>	
<p>KEY ACTIONS</p>	
<p>Action 1</p>	<p><b>3.2 Identify all occurrences of the community</b></p> <p>An additional occurrence of the community was located at 'Muddy Lakes' near Bunbury as part of the 'Swan Bioplan' survey. Swan Bioplan is the southern extension of the 'Bush Forever' planning document that was completed for the Perth Metropolitan Region. Two new plots were established in this occurrence, and the site represents a significant range extension for the community.</p> <p>Four new quadrats were established and flora species present in four other previously established quadrats were rescored in a series of sedgeland areas in 2007 by staff from DEC's Species and Communities Branch. The data from the plots will be used to help monitor condition and composition in sedgeland areas located in Lake Coo loongup Regional Park, Port Kennedy Scientific Park, Golden Bay, Anstey Swamp, and IP14.</p>
<p>Action 2</p>	<p><b>3.3 Liaise with relevant groups to implement this IRP</b></p> <p>In 2007, the Recovery Team continued to liaise with numerous groups including local government, industry and the local community to implement the recommendations in the Recovery Plan. In particular, members of the team were involved in negotiations to minimise impacts with regard to development of land at Industrial Park 14 (IP14), and at Port Kennedy Golf Course. DEC's Community and Regional Parks Branch also worked in conjunction with Mirvac Pty Ltd and the City of Rockingham with regard to managing access at Port Kennedy Scientific Park.</p> <p>Liaison between Swan Coastal District, Landcorp and the City of Rockingham resulted in removal of large volumes of illegally dumped rubbish at IP14. Agreement was sought between the various stakeholders with regard to the future closure of Lodge Drive to prevent access to the IP14 site. This will help prevent further rubbish dumping, illegal fires and general disturbance to vegetation.</p>
<p>Action 3</p>	<p><b>3.4 Minimise further clearing of the community</b></p> <p>Members of the Recovery Team provided advice and recommendations with regard to the possible reservation of areas of the community at IP14, and other areas proposed for development. The newly located occurrence at 'Muddy Lakes' is in secure tenure and is therefore unlikely to be cleared.</p>

<p><b>Action 4</b></p>	<p><b>3.5 <i>Minimise recreational disturbance to the community</i></b></p> <p>Liaison between Swan Coastal District, Landcorp and the City of Rockingham resulted in removal of rubbish dumped illegally at IP14. Agreement was also sought with regard to the future closure of Lodge Drive to prevent access to the IP14 site. This will help prevent further rubbish dumping, illegal fires and general disturbance to vegetation.</p> <p>The District also provided some general advice to the City of Rockingham regarding wording of signage for the Lark Hill sedgeland occurrences.</p> <p>Community and Regional Parks Unit worked in liaison with Mirvac Pty Ltd and the City of Rockingham with regard to managing vehicle access at Port Kennedy Scientific Park.</p>
<p><b>Action 5</b></p>	<p><b>3.8 <i>Apply fire response plans</i></b></p> <p>The fire that went through a portion of the IP14 site in 2007 was mapped by DEC's Swan Coastal District.</p>
<p><b>Action 6</b></p>	<p><b>3.9 <i>Design and implement a weed control strategy for the community</i></b></p> <p><i>Euphorbia terracina</i> and <i>Trachyandra divaricata</i> are currently threatening the sedgeland occurrences at Port Kennedy Scientific Park, with <i>Juncus acutus</i> and <i>Typha orientalis</i> threatening the occurrences at Lake Cooloongup and Lake Walyungup Regional Parks. DEC's Community and Regional Parks Branch continued <i>Euphorbia terracina</i> control in two large occurrences of the sedgeland community within Port Kennedy Scientific Park. <i>Juncus acutus</i> control was continued in Lake Walyungup and Lake Cooloongup Regional Parks, with work in 2007 targeting adult plants and building on weed control completed in 2006.</p>
<p><b>Action 7</b></p>	<p><b>3.11 <i>Report on success of management strategies for wetlands</i></b></p> <p>This report completes this action for 2007.</p>
<p><b>Action 8</b></p>	<p><b>3.26 <i>Negotiate for appropriate management of other occurrences in Port Kennedy, outside Port Kennedy Scientific Park</i></b></p> <p>Members of the Recovery Team provided advice and recommendations with regard to possible reservation of areas of the community in IP14. Negotiations are continuing. Members of the team also provided comment on issues relating to minimising hydrological and other impacts at the Port Kennedy Golf Course Stage 2. The Muddy Lakes occurrence of the TEC is located in secure tenure as a consequence of negotiations for Swan Bioplan.</p>

<p>Criteria for success or failure as described in Recovery Plans or Interim Recovery Plans</p>	<p><b>ASSESSMENT OF PROGRESS TOWARDS MEETING CRITERIA FOR SUCCESS AS DESCRIBED IN RECOVERY PLAN</b></p> <p><b><i>Criteria for success in Interim Recovery Plan:</i></b></p> <ul style="list-style-type: none"> <li>• <i>An increase in the area, number of occurrences, and completeness of a geomorphic age sequence of this community under conservation management.</i></li> </ul> <p>Ongoing - see above: members of the Recovery Team are involved with ongoing negotiations and provision of advice about areas that contain the sedgeland community and are the subject of proposals for reservation. The newly located occurrence at Muddy Lakes occurs within secure tenure.</p> <ul style="list-style-type: none"> <li>• <i>Maintenance in terms of diversity and basic composition of native species (as described in Gibson et al. 1994).</i></li> </ul> <p>Ongoing - see above: baseline data on condition have been collected for the sedgeland community in Port Kennedy Regional Park, and permanent monitoring plots were placed in occurrences at Bakewell Drive Port Kennedy in 2002. In 2006 and 2007 additional plots were placed in Lake Cooloongup Regional Park, IP14, Golden Bay, Port Kennedy Regional Park and Anstey Swamp. The data will also be added to and compared with the original dataset held in the Gibson <i>et al.</i> (1994) report 'A floristic survey of the southern Swan Coastal Plain'. In addition, control of <i>Euphorbia terracina</i> was continued in Port Kennedy Scientific Park and control of <i>Juncus acutus</i> was continued in Lake Walyungup and Lake Cooloongup Parks.</p> <ul style="list-style-type: none"> <li>• <i>Maintenance of water levels and quality in the wetlands that contain the community.</i></li> </ul> <p>Ongoing: Hydrological data are continually being collected for areas that contain the community. Detailed data are being collected for areas adjacent to development areas including Waikiki Station, Lark Hill, Port Kennedy Golf Course Stage 2, and other specific sites in some Regional Parks. Long terms trends are yet to be determined.</p> <ul style="list-style-type: none"> <li>• <i>Maintenance or improvement in the condition and extent of the community including reduction of exotic species</i></li> </ul> <p>Ongoing - see above: Weed control was continued in 2007 in Port Kennedy, Lake Walyungup and Lake Cooloongup Regional Parks, and the collection of data on weed levels was continued.</p>
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