

ATTACHMENT 1 : 2012-13 ANNUAL REVIEW OF YELLAGONGA INTEGRATED CATCHMENT MANAGEMENT PLAN 2009-2014

Project	Objectives	Timeframe	Progress	Comments for 2012/13
Management Framework and Memorandum of Understanding	<p>Develop a Yellagonga Integrated Catchment Management (YICM) Memorandum of Understanding (MoU) endorsed by both the Cities of Joondalup and Wanneroo to ensure ongoing commitment to the YICM Plan implementation.</p> <p>Develop a co-ordinated Management Framework identifying joint and individual projects of the YICM Plan 2009-2014 to be implemented by both Cities.</p>	2010/11	Completed	<p>The <i>YICM MoU</i> and <i>Management Framework</i> have been completed and endorsed by both the Cities of Joondalup (6 April 2011) and Wanneroo (6 May 2011).</p> <p>The Management Framework will continue to be used for the term of the <i>YICM Plan</i> until June 2014.</p>
Water Quality Mapping and Monitoring	Develop scientific monitoring and investigations of groundwater and surface water in the Yellagonga Catchment and Park and collate, analyse and share data between authorities.	2010/11 – 2013/14	In progress	<p>The City of Joondalup engaged the Edith Cowan University (ECU) Centre of Ecosystem Management to undertake the following projects in 2012/13:</p> <ul style="list-style-type: none"> • Surface Water Quality Monitoring Program for the Yellagonga Wetlands. • Groundwater Quality Monitoring Program for the Yellagonga Wetlands. <p>Key findings and recommendations will be discussed with the City of Wanneroo and Department of Parks and Wildlife in order to develop management strategies.</p>
Scientific Investigations	Undertake scientific investigations into ameliorating problems associated with poor water quality	2010/11 – 2013/14	In Progress	<p>The Midge Steering Group in partnership with external stakeholders undertook investigations regarding the installation of 'floating treated wetlands at Lake Goollelal '. The floating vegetation could assist to improve water quality This was identified as a potential future study relating to water quality.</p> <p>There were no new scientific investigations commenced under the Midge Management Partnership Agreement during the 2012/13 period.</p>

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Yellagonga Community Awareness Program (each City will run their Program individually)	Develop education initiatives, targeting schools, residents, and the broader community, to address key environmental issues for the Yellagonga Catchment and encourage greater environmental stewardship by the community.	2010/11 – 2013/14	In Progress	<p>The Yellagonga Community Awareness Program for 2012/13 included the:</p> <ul style="list-style-type: none"> • Water Quality Awareness Program <ul style="list-style-type: none"> ○ In partnership with the Department of Parks and Wildlife <i>Ribbons of Blue Program</i>, water quality sampling and analysis have been undertaken with school students at the Yellagonga Wetlands. ○ A new catchment model has been produced to assist in delivering education sessions to schools and the broader community about water quality issues of the Yellagonga Wetlands. ○ A Stormwater Drainage poster was produced to raise the community's awareness of stormwater and the impact on the Yellagonga wetlands. ○ A Gardening Workshop was held in February 2013 at the Emerald Clubrooms adjacent the Yellagonga Wetlands promoting reduced fertiliser / water use. This was presented by the Beyond Gardens team and a included free verge makeover giveaways (that reduce water and fertiliser use). • YICM School Ecology Program <ul style="list-style-type: none"> ○ Free excursions have been offered to primary and secondary schools within the City. The tours held at Neil Hawkins Park included Bird Watching and Fauna Tours (with Birdlife WA and local ecologists) and Water Quality / Wetland Ecology activities. Two Yellagonga wetland ecology incursions were also provided by the City. Approximately 205 primary and secondary school students from five schools took part in the activities held between September 2012 and June 2013. ○ The City has developed Yellagonga Ecology Worksheets for primary school students. The Worksheets align to the current Curriculum format and include activities aimed at raising the awareness of key issues within wetland areas. These worksheets will be available for schools to utilise from Term 1 2014. • Fauna Awareness Campaign comprising of: <ul style="list-style-type: none"> ○ Prevention of Hand Feeding Wildlife Campaign

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				<p>New "Please don't feed the birds/wildlife" signs have been installed at Neil Hawkins Park in key popular bird feeding sites. The <i>What Happens if I Feed Wild Birds?</i> brochures continue to be distributed extensively.</p> <ul style="list-style-type: none"> ○ Feral Animal Awareness Campaign A desktop review of the current strategies to address feral animals in Yellagonga Regional Park has been undertaken. Opportunities for further regional partnerships in delivering rabbit and feral cat control are also being investigated. ○ Responsible Pet Ownership Campaign Information on responsible pet ownership has been incorporated into new signage at Picnic Cove and included within the City's <i>Oblong Turtle of Yellagonga Regional Park</i> brochure. ○ Turtle Awareness Campaign The <i>Oblong Turtle of Yellagonga Regional Park</i> brochure was developed in 2011/12 and updated in 2012/13. The brochures were delivered to residents in areas adjacent the Yellagonga wetlands known for turtle nesting during 2012/13 and were also distributed extensively throughout the City including libraries, schools and via Friends of Yellagonga. ● World Wetlands Week Program <ul style="list-style-type: none"> ○ Two free Fauna Nightstalk tours were held at Neil Hawkins Park and a library display was installed for the week. ● Yellagonga Community Firewatch <ul style="list-style-type: none"> ○ A desktop review of the current community firewatch programs that are in place adjacent to the Yellagonga Wetlands has been undertaken during 2012/13. The City continues to liaise with the State Neighbourhood Watch Co-ordinator to investigate opportunities for partnerships in the delivery of community firewatch initiatives.
Yellagonga EcoTourism and Events Plan (each City will run their Plans individually)	Identify key tourism features of Yellagonga Regional Park and develop an EcoTourism Strategy and Marketing Strategy. Promote Aboriginal culture through events and guided	2012/13– 2013/14	In Progress	Yellagonga EcoTourism events are incorporated in the City's <i>Think Green</i> Events Calendar, Environment E-Newsletter and relevant advertising. A number of Yellagonga ecotourism initiatives have been provided by the City during 2012/13. Some of these initiatives have been delivered in collaboration with other Programs such as the Environmental Education Program and have included: <ul style="list-style-type: none"> ● Nightstalk tours.

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	tours.			<ul style="list-style-type: none"> • Aboriginal Bushtucker tours. • Yellagonga School Ecology Activities (fauna tours and birdwatching). • Yellagonga Platinum 50+ Program (Aboriginal Bushtucker and birdwatching tours). • An updated edition of the Yellagonga Travelsmart trail map.
Yellagonga Environment Centre – Phase 2	Review the Yellagonga Environment Centre Feasibility Study. Review the location, scale, size and seek funding and partnership opportunities for the development of the Yellagonga Environment Centre -Phase 2.	2011/12– 2013/14	Not Started	<p>The Environment Centre has been removed from the 20 Year Strategic Financial Plan 2011/12 – 2030/31 due to the priority of a number of other new facilities and infrastructure approved by Council for the period of the Plan. The Plan will be reviewed and updated on an annual basis, and such reviews will provide an opportunity to reassess the viability of the Project.</p> <p>Council endorsed the projections and proposals of the draft 20 Year Strategic Financial Plan 2011/12 – 2030/31 at its meeting of 24 July 2012 (Item CJ138-07/12 refers).</p>
Yellagonga Resource Allocation Strategy (Joint) (formerly Yellagonga Lobbying Strategy)	Investigate strategies to maximise efficient allocation of resources in the Yellagonga Regional Park to support the Department of Parks and Wildlife (formerly Department of Environment and Conservation) achieve their planned initiatives.	2010/11 – 2013/14	In Progress	<p>In 2011/12 the Cities of Joondalup and Wanneroo discussed the background and intent of the <i>Yellagonga Resource Allocation Strategy</i> with the then Department of Environment and Conservation and a collaborative approach rather than a 'lobbying approach' was agreed upon to achieve desired conservation outcomes for the Yellagonga Regional Park.</p> <p>The City of Joondalup prepared a 'gap analysis' document which compared the list of initiatives for implementation noted under the Yellagonga Lobbying Strategy project of the <i>YICM Plan</i>, against the corresponding strategies noted in the Yellagonga Regional Park Management Plan 2003-2013. These initiatives and strategies were discussed with the then Department of Environment and Conservation and a list of partnership projects and initiatives was compiled. The key initiatives included further fauna surveys, bushland assessments, wildlife injury protection and flora and fauna disease protection to be undertaken within Yellagonga Regional Park.</p> <p>In 2012/13 The City has produced:</p> <ul style="list-style-type: none"> • Desktop reviews of fauna/flora surveys undertaken for Yellagonga Regional Park and other initiatives relevant to the Resource Allocation Strategy tasks undertaken by all management agencies in the past ten years. • A <i>Yellagonga Resource Allocation Schedule</i>. <p>Further collaboration between the Cities of Joondalup and Wanneroo and the Department of Parks and Wildlife is required to progress the agreed tasks under the YICM Resource Allocation Strategy.</p>

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Stormwater Management Plans	Develop Stormwater Management Plans including identification of priority sub-catchments for upgrade.	2010/11 – 2013/14	In Progress	<p>As part of the implementation of the Landscape Master Plan, the City has completed retrofitting of stormwater outfalls into the City's lakes. The upgrade of sumps will occur through the Stormwater Drainage Program – Sump Beautification Program. The program is ongoing.</p> <p>A new Stormwater Management Policy was adopted by Council in August 2012.</p>
Local Biodiversity	To reduce water consumption via native sustainable gardens; introduce and showcase original local endemic species; raise community awareness of local biodiversity and water wise gardening and create biodiversity linkages between the wetlands and coast.	2009/10 – 2013/14	In Progress	<p>Biodiversity linkages reflecting plant communities and soil types between the Yellagonga Wetlands and the coast are being created through the Iconic Landscaping Project.</p> <p>Final stage planting is about to commence on the Burns Beach median planting (Stages 4 and 5) from the Mitchell Freeway to Joondalup Drive. Local native plant species (provenance plants) have been planted in the Burns Beach Road median commencing west of Marmion Avenue at Delgado Parade and will finish at Joondalup Drive. Hard landscaping, tree planting and the application of mulch has also been completed.</p> <p>Local native species have been planted on Joondalup Drive (western verge) from Aston Street to Shenton Avenue and Hodges Drive (median) between Joondalup Drive and the Mitchell Freeway.</p> <p>Community education of native sustainable gardening has also been delivered via Gardening Workshops through the City's Environmental Education Program.</p>
District Planning Scheme Review	To develop and implement a new planning scheme for the City which sets a high standard of quality for future development.	2010/11 – 2013/14	In Progress	<p>Overall review of <i>District Planning Scheme No. 2</i> is underway. Aspects of the Scheme have been prioritised including implementation of the Housing Strategy.</p> <p>Research and development of <i>Local Planning Scheme No. 3</i> which will continue during 2013/14.</p>

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Acid Sulphate Soils	Identify extent of acid sulphate soils in the Yellagonga Catchment and develop strategies to manage impact of any disturbed acid sulphate soils.	2013/14 – 2013/14	In Progress	<p>The Acid Sulphate Soil Investigation (north of Lake Goollelal) Stage 2 Project (identified within the Water Quality Mapping and Monitoring Project) was completed in May 2013.</p> <p>Further collaboration between the Cities of Joondalup and Wanneroo and the Department of Parks and Wildlife is required to progress the Acid Sulphate Soils Project into the future.</p>
Conservation Maintenance Schedule	Ensure natural areas are maintained within urban expansion, habitats maintained for wildlife and unique and diverse flora is protected.	2010/11 – 2013/14	Ongoing	<p>The area of bushland (managed by the City of Joondalup) south of Neil Hawkins Park has had herbicide applied to eradicate both grass and broad leaf weeds. This work, in association with the removal of dead tree branches littering the ground (by the Friends of Yellagonga Park), has allowed Long-necked Turtles easier access, to create nests in the bushland west of the limestone pathway.</p> <p>The City of Joondalup has installed nine purpose built Carnaby Cockatoo nesting boxes in Neil Hawkins Park. These boxes have been placed in the large Tuart trees found in the park.</p> <p>Weed management has also been implemented at Lakeside Park (abutting Yellagonga Regional Park) for the control of grasses that can shed seed into the Yellagonga Regional Park.</p> <p>The City of Joondalup in association with the City of Wanneroo and the Department of Parks and Wildlife has been very successful in the ongoing fox control program within Yellagonga Regional Park. Over 30 foxes have been trapped since the start of the initiative.</p>
Water Plan	Maintain public open spaces while using groundwater more efficiently.	2009/10 – 2013/14	In Progress	<p>The <i>City Water Plan 2012 - 15</i> was endorsed by Council on 26 June 2012, following community consultation.</p> <p>In 2012/13 key projects from the YICM Plan were implemented under the <i>City Water Plan 2012 – 2015</i>. These included: Water Quality Monitoring and Mapping Project; Yellagonga Acid Sulphate Soils Project; Review of Nutrient Management Practices; Yellagonga Community Awareness Program and the Scientific Investigations Project.</p>

-  In Progress / Ongoing
-  Completed
-  Not started