

Nagambie Waterways Land and On-Water Management Plan Implementation Schedule



High priority
 Medium priority
 Low priority
 Action complete or nearing completion

Act #	Action	Indicative Cost	Lead Agency	Schedule 2013-2017					Comments & Progress
				2013	2014	2015	2016	2017	
Section 4 - Community Awareness and Involvement									
1	Establish an Implementation Group to guide the implementation of this Plan and communicate priorities within this Plan.		GMW						Nagambie Waterways Advisory Committee to be formed to provide consultation for GMW's plan and review and implementation of Councils Boating strategy
2	Develop Terms of Reference (ToR) and roles and responsibilities for the Implementation Group. The ToR should include the purpose, background, composition, function and operational details of the group.		GMW						See above
3	Develop a proactive communication and awareness campaign which provides up to date information to recreational users on the status of water levels in the storage, including planned maintenance activities which may impact on recreational user groups.		GMW						Development of a recreation business plan & communications strategy currently underway
4	Work with user groups to understand their information requirements.		GMW						Annual meeting with Riparian landowners Bi monthly meeting with Strathbogie Shire Boating Strategy Group
5	Encourage and support processes that involve community and users in the recreational amenity of the Nagambie Waterways.		GMW, Council						Nagambie Waterways Recreational and Commercial Strategy, 6.1 Planning and Decision Making Framework GMW Implementation Group
6	Provide clear descriptions of agency roles and responsibilities and communicate this to the community.		GMW						Agency quick reference guide included in plan
7	Develop a Code of Conduct for users of the waterways that covers the following areas: The boating rules for the waterways, the locations where they apply and the behaviour expected of users. Education and awareness for landholders adjacent to the waterway. Health, safety and emergency response issues.		Council, GMW						Linked to production of new boating guide
8	Implement communication actions (e.g. brochures and signage) to promote knowledge of boating rules and to highlight the behavioural expectations of boaters.		Council, GMW						Council's review of boating rules after signage audit implementation 2012/2013 Grant funding for new boating Guide 2015 Review of zoning rules 2015
9	Update the Goulburn-Murray Water website to provide details of development controls and permit, licence and lease procedures on Goulburn-Murray Water managed land.		GMW						Currently being developed
10	Engage media/communication resources to communicate safety, emergency management and compliance messages to waterway users.		GMW						Communications strategy to be developed 2015
11	Promote improved communication (e.g. signage) regarding duck hunting areas and regulations.		DEPI, GMW						Maps produced showing hunting exclusion areas 2015 Discussion with GMA regarding hunting at Nagambie 2015
12	Promote improved communication regarding the risks of blue-green algae and the Goulburn-Murray Water blue-green algae warning system.		GMW						BGA fact sheets available on the GMW web site - Completed 2013
Section 5 - Recreation and Tourism									
13	Provide consultation feedback and details of the issues raised to the Nagambie Waterways Recreational and Commercial Strategy Committee for consideration.		GMW						On-going
14	Continue to support Strathbogie Shire Council's Nagambie Waterways Recreational and Commercial Strategy through participation in the advisory committee		GMW						GMW represented at bimonthly meetings
15	Support investigations to open other areas of Nagambie Waterways for high speed boating.		Council, GMW, TSV						Grant funding for review of facilities 2015 Review of zoning rules underway 2015
16	Support the implementation of actions in the Goulburn Broken Fisheries Management Plan which promote sustainable recreational fishing in Nagambie Waterways		DEDJTR						Fisheries/Council estimates of economic value of fishing report 2015
17	Develop and implement a monitoring program, in consultation with peak fishing organisations, to determine the effectiveness of the fish stocking program in the Nagambie Waterways		DEDJTR, GMW						Fisheries/Council estimates of economic value of fishing report 2015
18	Support the implementation of recreational fishing access and infrastructure projects.		DEDJTR, GMW, Council						Grant funding for review of facilities 2015
19	Support investigations to develop additional swimming zones that are appropriately segregated from other user groups.		Council, GVV, tourism operators and sporting/recreational clubs						Nagambie Waterways Recreational and Commercial Strategy, 6.3 Land and On-Water Infrastructure Development Plan
20	Promote through education, signage and maps the details of hunting areas and work with the stakeholders to improve monitoring of duck hunting areas and enforcement of regulations.		GMA, Field and Game Australia						Maps on GMW website for 2015 season
21	Determine feasibility for exclusion of hunting in environmentally sensitive areas.		GMA,						GMA at agency meeting 2015

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22	Support and promote the implementation of actions relating to the preparation of the Land and On-Water Infrastructure Development Plan identified in the Nagambie Waterways Recreational and Commercial Strategy.		Council, GMW						Assist Council in development of a strategic development plan for the Nagambie foreshore between Jacobsons Outlook and Bryde St 2015 Council tracks & trails strategy 2015
23	Undertake an assessment of land-based encroachment and unauthorised buildings on public land.		GMW, Council						GMW considering potential foreshore licensing
24	Install appropriate signage and communications regarding the location and use of public access points.		GMW, Council						Council & GMW working to resolve camping issue at Sandy Creek and public access at Mitchellstown Bridge Public access points to be reviewed as part of Council facilities review.
25	Ensure that emergency response plans for flooding/fires/incidents are in place and communicated widely.		SES, GMW, CFA, Victoria Police, DEPI						
26	Ensure that emergency services and relevant agencies meet regularly to discuss and update emergency management/response.		GMW, CFA, Victoria Police, SES, DEPI						
27	Facilitate the development of mock exercises to test and strengthen flood/fire/ incident planning and procedures and involve all relevant agencies.		SES, GMW, CFA, Victoria Police, DEPI						
28	Implement a best practice risk management approach for the management of public safety in publicly accessible areas of the waterways.		GMW, CFA, Victoria Police, SES, DEPI						GMW risk management framework in place
29	Upgrade and utilise event risk management assessment, awareness and notification process (as per Transport Safety Victoria guidelines). Develop an events management checklist, which includes details of the agencies to be notified regarding an event.		Council						Implemented event management and approvals process with TSV in season 2012/2013. Involves coordination through Council's Events Officer with input/referral to Council's Risk Officer.
30	Promote through education, signage and maps the details of duck hunting areas. This will include working with DEDJTR to improve monitoring of duck hunting areas and enforcement of regulations.		DEDJTR, Council						Information provided on DEPI website. Recent DEPI advice; general advice to DEPI (DEPI), firearm related enforcement to VicPol, issues with duck hunting in general to the relevant Minister.
31	Investigate the potential for the introduction of traffic management in areas where the community is at risk (e.g. around boat ramps and pedestrian access routes).		Council						
32	Support and promote implementation of actions included in the Nagambie Waterways Commercial and Recreational Strategy relevant to recreation and tourism development, including: Undertaking research to assess the current and potential economic benefits of various waterway uses and activities. Establishing a 'Marketing and Events Working Group', comprising representatives of all regular waterway user groups to raise the profile of the waterway. Developing promotional/educational information brochures/interpretive signage with regard to eco-tourism opportunities.		Council, GMW, Tourism Victoria						Council Boating Strategy Group Role to be reviewed. New strategy & terms of reference to be established in 2015
33	Develop an integrated recreation and tourism strategy for Nagambie Waterways with Strathbogie Shire Council and Tourism Victoria.		Council, GMW, Tourism Victoria						
34	Develop an economic development overlay to assist with commercial business leases availability, tenure and opportunities.		Council, GMW						Site specific? Amendment to Planning Scheme required? Nagambie Waterways Recreational and Commercial Strategy, 6.1 Planning and Decision Making Framework.
35	Investigate the value of developing a 'Nagambie Waterways' brand.		Council, GMW, Tourism Victoria						
36	Support and promote implementation of relevant actions included in the Nagambie Waterways Commercial and Recreational Strategy to assess current and potential economic benefits of various waterway uses and activities.		Council						GMW & Council have committed to; Review existing commercial operations Carry out cost benefit analysis for waterway Review legislation enabling licensing Seek expressions of interest for a range of commercial operations Use boating Strategy Group to review
37	Investigate opportunities for greater utilisation and promotion of the Regatta Centre.		Council, GMW, Nagambie Rowing Club						
Section 6 - Water Quality									
38	Review existing water quality monitoring programs to ensure they are targeted and effective. If required, develop a coordinated water quality monitoring, evaluation, risk management and reporting program for the Nagambie Waterways.		GMW, DoH						

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39	Support implementation of relevant actions in the Goulburn Broken Catchment Water Quality Strategy (1996), Goulburn Broken Catchment Management Authority Catchment Action Plan (2003) and Regional River Health Strategy (2005) and other relevant strategies that mitigate salinity, nutrients and sediments from the upper catchment.		GMW, GBCMA, DEPI, DoH, Council						GBCMA Waterway Strategy released in 2015
40	Develop a comprehensive erosion management plan for the Nagambie Waterways, including the identification of priority areas and suitable control methods (including soft and hard engineering solutions).		GMW, GBCMA, DEPI						
41	Support implementation of relevant actions in the Goulburn Broken Catchment Water Quality Strategy (1996), Goulburn Broken Catchment Management Authority Catchment Action Plan (2003) and Regional River Health Strategy (2005) and other relevant strategies that mitigate activities that cause erosion.		GMW, GBCMA, DEPI						
42	Investigate alternative technologies and systems to manage wastewater in the foreshore environment.		Council, EPA, GVW, GMW						
43	Implement wastewater management recommendations within Strathbogie Shire Council wastewater management plans.		Council, GMW, GVW						Strathbogie Shire Council Wastewater Management Plan
44	Ensure responsible agencies implement inspection and monitoring programs relating to the management of wastewater.		GMW, GVW, GBCMA						
45	All developments must be in accordance with Strathbogie Shire Stormwater Management Plan (Volumes 1 and 2) (Strathbogie Shire Council, 2005), and Urban Stormwater Best Practice Environmental Management Guidelines (CSIRO, 1999).		Council						Strathbogie Shire Stormwater Management Plan (Volumes 1 and 2) (Strathbogie Shire Council, 2005)
46	Strathbogie Shire Council to work with other stakeholders to determine priority locations for stormwater management intervention.		Council, GMW, GV Water						
47	Continue to monitor and manage blue-green algae in accordance with Goulburn Weir Blue-Green Algae Incident Response Plan.		GMW						Goulburn Weir BGA Management Plan
Section 7 - Health ecosystems									
48	Promote and implement management strategies to monitor, protect and enhance habitat for native species as identified in the Goulburn Broken Fishery Management Plan.		DEPI, GMW, GBCMA						Tahbilk Lagoon Catfish monitoring a habitat improvement Goulburn River resnagging by GBCMA <u>Tahbilk management plan produced 2009</u>
49	Investigate the options for installing structures (e.g. fish ladders) to promote more effective fish passage.		GBCMA, GMW, Tahbilk						New culverts at Tahbilk to provide for improved fish access
50	Investigate potential benefits of dropping of water level for potential environmental benefits.		GMW, GVW, Council, GBCMA						Raised at April 2015 agency meeting for discussion. Agencies to provide advice about potential impacts and benefits.
51	Conduct a detailed assessment of the foreshore zone to determine any areas where riparian vegetation should be protected to prevent erosion, or re-establish important biodiversity values.		GMW, DEPI, GBCMA						
52	Continue any existing foreshore revegetation programs on public land and investigate/develop a re-vegetation incentive program for landholders, including stock watering and fencing.		GBCMA, GMW						GBCMA revegetation at Northwood Rd 2014
53	Support foreshore vegetation works in the surrounding catchment in order to protect biodiversity values and enhance visual amenity.		GMW, GBCMA						
54	Develop a prioritised weed control program coordinated with agencies and landholders, including the discussion of funding and responsibilities.		GMW, GBCMA						Continuation of Mexicana Lily program
55	Undertake detailed pest plant and animal surveys and mapping for priority species.		GMW, GBCMA						
56	Investigate the application of innovative Carp control for the Nagambie Waterways.		DEPI, GMW, GBCMA						
57	Investigate the potential for innovative management strategies for control of aquatic weed e.g. Cabomba.		GMW, DEPI, GBCMA						
58	Establish whether the Cockatoo flock is too large, potentially contributing to the destruction of roosting vegetation.		DEPI						
Section 8 - Land Management									

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59	Promote integrated planning and development processes that take into account beneficial land uses and land capacity, the protection of water quality and ecosystems and the impacts on the amenity of the area.		Council						Strathbogie Planning Scheme, Municipal Strategic Statement review and adoption.
60	Explore the options ensuring protection of the Nagambie Waterways as a water supply catchment.		GMW, Council, GBCMA, GVW						
61	Promote continued implementation and support the review of the NEPRC Guidelines for the Protection of Water Quality.		GMW, GVW						
62	In consultation with adjacent landholders, progressively implement property boundary re-establishment surveys, incorporating line of sight markers.		GMW						Recent surveys at Wattlevale Rd, Grandview Rd and Woodlie Cr - comp 2012 Goulburn Weir & Baxters Rd - comp 2015 Mcleod St and Kettles Rd planned
63	Development of a joint strategic management plan to address existing unauthorised structures, to have them recognised through licensing or removed.		GMW, Council						GMW jetties and moorings guidelines released - 2012 Unlicensed jetties to be removed at Nagambie 2015 Removal of asbestos shack at Mitchellstown planned 2015
64	Undertake investigations of existing licensed private developments on Crown Land and have the developments appropriately reviewed in relation to standards and public access requirements.		GMW, Council						Planning compliance
65	Investigate the option to give landowners backing onto watercourses licences to use the land behind their property and to keep the areas neat and safe where public access to the waterway and the primary function of the storage is not compromised.		GMW						GMW strategy review underway 2015
66	Investigate processes for supporting best practice grazing and cropping.		GMW, DEPI						
67	Conduct a detailed assessment of the foreshore zone to determine any areas grazing should be ceased to protect riparian vegetation, prevent erosion, or re-establish important biodiversity values, or where site specific licence conditions should be implemented.		GMW						
68	Investigate the introduction of additional and/or different conditions on grazing licences including the timing and intensity of grazing, and age of stock in order to minimise impacts on water quality.		GMW						Grazing licence conditions have been amended to reduce health risks
69	Develop a grazing licence document that details the shared responsibilities for Goulburn-Murray Water and the licence holder for management of grazing licence areas.		GMW						Draft document #2495574 created as guidelines for grazing licences
70	Ensure compliance with licence conditions is adequately monitored.		GMW, GVW						
71	Assess the lease and licence renewal process to ensure it is timely and efficient.		GMW						
72	Proactively consult with lease and licence holders regarding the condition of their lease/licences, and deal with cases of repeated non-compliance.		GMW						
73	Proactively educate and discuss the implementation of foreshore development procedures (e.g. for jetties, slipways, moorings and vegetation removal) with landholders.		GMW, DEPI, GBCMA, Council						Jetties and mooring guidelines available on the GMW web site
74	Develop an integrated fire management planning process specifically for townships around the Nagambie Waterways.		CFA, GMW, Council						
75	Manage bushfire risks through education about fire safety (see also Section 5.6: Safety and Emergency Management).		CFA, GMW, Council						GMW Fire Protection Plan
76	Ensure access is available and well signposted for fire vehicles via roads and to water supply points.		CFA, GMW						
77	Support use of public land where deemed suitable as fire refuge areas.		CFA, GMW, Council						
Section 9 - Cultural Heritage									
78	Support initiatives to enhance protection of Aboriginal cultural heritage.		GMW, Taungurung Clans Aboriginal Corporation						
79	Support initiatives to enhance protection of European cultural heritage.		GMW						