

Lake Eildon 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 3.1 - Plan Implementation									
1	Establish a Lake Eildon Plan Implementation Group to guide the implementation of the Plan and communicate priorities in the Plan.		G-MW						Implementation group formalized June 2013 6th meeting of Implementation group May 2015.
Section 3.2 - Education and Awareness									
2	Develop a single Code of Conduct for the lake which includes information about user and agency responsibilities relating to boating and boating safety, camping, solid waste, wastewater and emergency management. The Code of Conduct should include information about the importance of designated public access in minimising impacts on the environment.		G-MW, DSE, Parks Victoria, CFA, Victoria Police, TSV						Develop a Code of Conduct for both Lake users & agency responsibilities Review High Country Rail Trail & DAR Codes of Conduct.
3	Develop an education and awareness program to increase understanding of the value of riparian frontages and the impacts of recreational activities, including camping and houseboats on the foreshore environment.		G-MW						GMW House Boat newsletter 2014
4	Develop a coordinated blue-green algae communication strategy to enhance business and community understanding of how to respond to blooms.		G-MW						GMW BGA x7 Fact Sheet developed. GMW Website for BGA www.g-mwater.com.au GMW Blue Green Algae hotline (58 335785) GMW Lake Eildon BGA Plan - alerts to relevant agencies, Shires, general public-local radio
5	Develop a communication and awareness campaign with simple communication tools describing how the lake operates including forecasting of water levels in the lake and the destination (use) of water discharged.		G-MW						GMW Advisory Line (5774 3900)- updated daily Brochure developed - 42 Facts About Water in North East Victoria GMW Website - GMW Story & individual storage Web Pages
6	Promote the use of interactive communication tools to disseminate information about the lake, its operation, management arrangements and by-laws.		G-MW						GMW Web-Site 3d "How a dam works" Individual storage Web pages
Section 3.3 - Recreation and Tourism									
7	Conduct an audit of existing boat ramps, reviewing access at different supply levels, location, safety and parking availability.		G-MW						Consultant conducting audit Opal Solutions Final Doc March 2015
8	Establish consistent signage at all boating access points to improve awareness of boating safety issues, location of ramps and public access options.		G-MW, TSV						1. New TSV Boating Safety Signs installed 2012 2. Details of existing signage to be documented with DOT grant audit No. 7
9	Educate users and enforce the five knot zone within 50 metres of the shore around the entire perimeter of the lake.		TSV, Victoria Police, G-MW						Lake Eildon Recreational Boating guide printed & circulated. Water Police use Eildon depot - god relationship
10	Goulburn-Murray Water, Parks Victoria, Mansfield Shire Council and Murrindindi Shire Council to develop a unified approach to traffic management at boat ramps to improve traffic flow and improve safety.		G-MW, Parks Victoria, Council						Part of No. 7 DOT audit process
11	Develop an agreed and acceptable position of management relating to the vegetation on the foreshore that addresses risks to human health and safety.		G-MW						GMW developing vegetation removal permit application - private works license being developed need to involve GMW Environmental & Sustainability Dept in near future
13	Work with relevant agencies to assess slipping facilities for: Environmental and WorkSafe compliance of maintenance facilities. The ease and impact of removal of vessels from the waterway. The ease and impact of removal of vessels from the waterway. Safety of on-road houseboat transport. The capacity of the slipways to deal with the size of the houseboats and the number of inspections required.		G-MW, WorkSafe, Vic Roads, EPA						GMW working with newly formed Lake Eildon House Boat Industry Association (LEHIA) & BIAVIC Club annual audits for slipways & factories EPA talks regarding maintenance facilities & HB wash down bays / storm water / sandblasting LEHI Vic Roads discussion to form Eildon township a fixed precinct for OS Transport
19	Consider upgrading or rationalising access points based on the audit findings to improve the overall quality of public infrastructure and facilities.		G-MW, Council, DSE						Part of No. 7 DOT audit process
21	Ensure there is consistent signage at specified access points with a specific Lake Eildon brand.		G-MW, Council						GMW Marketing investigation with Recreation & Land managers
24	Develop agency management agreements that provide deer hunters with clear and easily understood information about areas where hunting is permitted.		G-MW, Parks Victoria						Parks Vic State Park areas - GMW Foreshore no Fire arms by-law - Exemptions needed???
25	Improve education and awareness to encourage protection of the environment and compliance with firearm and hunting regulations.		G-MW, Parks Victoria, Vic Police						2013 Police Patrols increased + media articles work with PV publications &/or compliance activities?

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26	Estimate current and future levels of demand for camping to inform camping management, including the possible establishment of new camping areas.		G-MW, Parks Victoria, Council, DSE						Part of No. 7 DOT audit process
27	Explore the introduction of new camping areas and options to fund the development and maintenance of camping sites.		G-MW, Parks Victoria & DEPI						DELWP
28	Review the adequacy of current designated areas for camping, including an evaluation of amenities at each camp site.		G-MW, Parks Victoria, DSE						DELWP
29	Provide dedicated safe areas for motorbikes away from the designated camping areas.		G-MW, Council						
31	Audit existing infrastructure and service provision in and around Lake Eildon in order to prioritise infrastructure investment.		G-MW, Council, Parks Victoria, DSE						GMW Levels of Service Rec areas Draft audit process being investigated Part of DOT Audit No. 7
32	Identify the scale and type of infrastructure upgrades and additional infrastructure and services required.		G-MW, Council, Parks Victoria, DSE						Use DOT audit to identify infrastructure upgrades
34	Estimate the long-term resident and visitor demand on and around the lake and ensure that infrastructure provision is aligned with estimated demand.		G-MW, Council						
35	Investigate the potential for the development of new walking tracks above the full supply level.		G-MW, Council						New walking track part of Goughs Bay project 2013 - no other areas identified at this point New Bonnie Doon Rail Trail opened
36	Ensure that the approaches to waste management around the lake are effective and efficient.		G-MW, Parks Victoria, Council						GMW partner in the Goulburn District Waste Mgt Group- all agencies involved
37	Explore where the 'carry in carry out' approach to waste management can be implemented at other areas around the lake.		G-MW, Parks Victoria						Part of NO. 36 above
39	Develop a Lake Eildon brochure to increase awareness of issues relating to emergency management and safety.		G-MW, TSV, Victoria Police, CFA, Council						Incorporate in reprint of Lake Eildon Rec Guide
40	Engage media/communication resources to communicate safety and compliance messages to recreational lake users.		G-MW, TSV, Victoria Police, CFA, Council						GMW & Water Police - Lake Eildon report Sat mornings UGFM Radio, ESV- HB Gas Safety Adverts
41	Investigate the potential for the introduction of traffic management in risk-prone areas, for example, around boat ramps.		G-MW, Council						Part of DOT Audit No. 7 Alliance Ramp new signage and overflow car parks established Jan 2013 Water Police function.
42	Seek input from emergency services regarding methods for locating lake users in case of emergency.		Victoria Police						New M-Phone tower upgrades have taken place Feb 2014
43	Develop a Tourism Strategy for Lake Eildon including guidelines outlining preferred and appropriate commercial ventures and opportunities (land and on-water).		Council, G-MW, commercial operators						GMW EOI for Commercial Rec & Tourism Adventure Companies to operate at GMW storages released
44	Commission a study to estimate the long term resident and visitor demand on and around the lake in order to inform decisions about future developments.		G-MW, Council						Eildon Structure Plan LERBFIP expand on visitor trends & demand
45	Develop an Event Management Strategy for Lake Eildon.		G-MW, Council						GMW event paper drafted to Board EOI Mansfield Shire Events Calendar - Lake Eildon-GMW Event guide
46	Explore the feasibility of developing an economic development overlay to assist with commercial business lease availability, tenure and opportunities.		G-MW, Council						GMW Lake Eildon jetty, commercial, environmental & public use zone overlay developed
47	Seek accommodation industry participation/representation in the Plan Implementation Group to support plan actions.		G-MW, commercial operators						No Accom Rep on LEIG
49	Develop a management plan for Eildon township land and the use of the Pondage, in consultation with the community.		G-MW, Council, community						Murrindindi Shire granted funding for Eildon Structure Plan
50	Continue to work with Council to identify best use, ownership and potential development opportunities on Goulburn-Murray Water land around Eildon township.		G-MW, Council, community						Part of NO. 49 above
Section 3.4 - Water Quality									
54	Actively support partner agencies in the protection and enhancement of water quality within the upper catchment.		G-MW, DSE, GBCMA						GMW Relationship with GBCMA Catchment strategy 2014
55	Investigate the opportunity for reticulated sewerage and community wastewater management facilities to service townships and similar residential areas around Lake Eildon.		EPA, G-MW, Council, GVV						Mansfield Shire Waste Water Mgt Plan- risk rating low, medium & high areas. Club site new WWTS in PlaceHouse boat GWTS in place GMW
56	Investigate alternative technologies for wastewater treatment around Lake Eildon.		EPA, G-MW, Council, GVV						Treatment Plants @ GMW Clubs sites
58	Develop a priority list for inspection and monitoring of wastewater systems.		EPA, G-MW, Council						EPA & Shire(s) responsibility GMW audits Club site annually

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61	Investigate drivers of recent blue-green algae blooms in Lake Eildon.		G-MW						GMW Water Quality Dept activity
Section 3.5 - Healthy Ecosystems									
65	Conduct a detailed assessment of the lake foreshore zone to determine any areas grazing should be excluded to protect riparian vegetation, prevent erosion, or re-establish important biodiversity values.		G-MW						GMW review new & 3 year grazing license expires for renewal on environ impact assessment criteria.
66	Investigate a revegetation incentive program for landholders.		G-MW, GBCMA						
67	Implement coordinated weed control programs with relevant agencies and landholders for the Lake Eildon foreshore and lake bed.		G-MW, Parks Victoria, DPI						GMW Weeds Manager Mark Finlay - current Eildon program March 2014
68	Investigate the application of innovative Carp control for Lake Eildon.		DPI						DEPI Fisheries responsibility
69	Support Department of Sustainability and Environment and other agencies to minimise the impacts of pest animals on surrounding communities to the lake and the environment.		DSE						GMW & DEPI weed spraying programs Fuel reduction burn projects with GMW Wild Dog baiting NE ?
Section 3.6 - Land Management									
72	Ensure clear guidelines exist for the approval of native vegetation removal, foreshore works permits, jetties and moorings.		G-MW, Council						As Per No.11 GMW New vegetation removal permit application - private works & jetty license developed.
73	Ensure that all infrastructure on public land is appropriately and consistently licenced to protect water quality and the foreshore.		G-MW						GMW New Jetty Technical Standards / Private Works Permits & Lake Eildon Activity Zone Maps
78	Develop and implement an erosion action plan, including monitoring and reporting, for Lake Eildon including a summary of threats, mapping of high risk areas and a prioritised works program.		G-MW, Council						
81	Develop a riparian revegetation incentive program for private landowners on the foreshore and surrounds which includes stock watering and fencing.		G-MW, GBCMA						
82	Clearly identify grazing licence responsibilities for Goulburn-Murray Water and the licence holder.		G-MW						Imbedded in GMW Grazing license conditions
87	Investigate possibilities for 'virtual fencing' and other innovative approaches to stock management on the lake bed to reduce the need for traditional fencing.		G-MW						
Section 3.7 - Planning and Development									
90	Encourage agencies and authorities to adopt agreed and consistent principles and processes to manage the impacts of planning and development around the lake.		G-MW, Council, DPCD, GVV						Shires apply Environmental Significance Overlays (ESO) and are talking about a consistent framework for planning issues around the lake.
92	Review the Environmental Significance Overlay (ESO) and Significant Landscape Overlay in the next planning scheme review and amendment with a view to developing an ESO which recognises the whole of the Lake Eildon Environs.		Council, G-MW, DPCD, GVV						Part of No. 90 above
93	Explore the opportunity to develop a Special Area Plan (SAP) for Lake Eildon and its immediate surrounds.		GBCMA, G-MW, DPCD, GVV						
94	Encourage agencies to continue to support the review of the North East Planning Referrals Committee Guidelines for the Protection of Water Quality.		Council, G-MW, DPCD, GVV						
Section 3.8 - Cultural Heritage									
95	Support initiatives to enhance protection of Aboriginal cultural heritage		G-MW, Taungurung Clans Aboriginal						
96	Support initiatives to enhance protection of European cultural heritage.		G-MW						
Agency Business as usual Actions									
Section 3.3 - Recreation and Tourism									
12	Revise the houseboat regulations to allow additional licences and larger houseboats to be considered.		G-MW, DSE						New House boat Regs in place June 2013 Larger house boat included. New Water Act will influence additional HB licences in the future 2015
14	Continue investigations and implementation of new effluent disposal facility for Jerusalem Creek.		G-MW						GDH Consultants final JC Waste Mgt Option paper due March 28th 2014. GMW-JC D&C Project ynderway- Jacobs PTY

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15	Review facilities and procedures for the management of on-water fuel supply and waste management.		G-MW, EPA						GMW Commercial lease holders required- annual audit on fuel barge + 3yr Marine survey certificate WorkSafe meeting 28th March 2014 Eildon audit due Dec 2013
16	Continue to implement measures to minimise the impacts of grey water discharge from houseboats.		G-MW, EPA						New Reg's 2013 Incorporates Grey Water compulsory treatment on all hose boat by 2020
18	Undertake regular audits of public access points to assess the safety, infrastructure and environmental issues associated with access at varying lake levels.		G-MW, Council, Parks Victoria, DSE						Business as usual for agencies to undertake annual audits Murrindindi Shire Alliance ramp
17	Implement measures to protect native vegetation from the impacts of houseboat mooring.		G-MW						GMW House Boat Newsletter reminder
20	Establish an inter-agency agreement for the management of recreational uses of the lake (including managing camping, access points and use of the exposed lake bed when water levels are low).		G-MW, DSE						Draft MOU talks DEPI Delatite Arm, Draft MOU with Mansfield Shire Rec areas
20	Establish an inter-agency agreement for the management of recreational uses of the lake (including managing camping, access points and use of the exposed lake bed when water levels are low).		G-MW, DSE						GMW talking with Mansfield Shire BY-Laws and interagency relationship regarding patrols and enforcement option.
22	Develop a Plan for the management of exposed areas of lake bed during periods of low water levels.		G-MW						GMW Lake Eildon Fire Mgt Plan - slashing / grazing and GMW Weed spraying program take into account low lake levels
23	Implement recommendations within the Goulburn Broken Fisheries Management Plan that relate to sustainable recreational fishing in Lake Eildon.		DPI						DEPI- GBFMP plan
30	Develop an agreed approach to management of the 200 metre strip of land between the National Park and the full supply level.		G-MW, Parks Victoria, DSE						Hume Regional Director DEPI to arrange meeting with GMW, Murrindindi Shire and DEPI to progress resolution of land management issues. #3625233
33	Clarify and formalise the roles and responsibilities for upgrade and maintenance of infrastructure incorporating levels of service.		G-MW, Council, Parks Victoria, DSE						GMW Levels of Service Rec areas Draft audit process being investigated
38	Ensure emergency services and relevant agencies meet regularly to improve and coordinate emergency management/response.		Victoria Police						MEMP Involvement Mansfield Shire
Section 3.4 - Water Quality									
51	Review existing water quality monitoring programs to ensure they identify water quality risk management measures and are consistent with the Safe Drinking Water Act Risk Management Plan.		G-MW, DoH						GMW Water Health Dept regular testing & GVW test raw water before entry to WT Plant Water Quality Risk Work Ahop Eildon 26 Aug 2014
52	Monitor mercury and arsenic level in fish to support health advice.		EPA, G-MW, DoH						Study undertaken to monitor levels of Mercury - DoH Published fish consumption recommendations
53	Consider a broad scale study into potential mercury contamination of lake sediments and water quality from historical mining activity.		G-MW, DPI, EPA						Howqua River study using fresh water muscles underway
57	Adequately size and locate onsite wastewater management facilities to minimise the risk to water quality from offsite discharge.		EPA, G-MW, Council						Mansfield WWDMP
59	All development must be in accordance with local government stormwater management plans, and Urban Stormwater Best Practice Environmental Management Guidelines (CSIRO) 2006.		Council, G-MW, EPA						Embedded in Shire Planning scheme
60	Continue to monitor and manage blue-green algae in accordance with Lake Eildon Blue-Green Algae Incident Response Plan.		G-MW						GMW Current BGA monitoring ongoing and Lake Eildon BGA Plan in place.
Section 3.5 - Healthy Ecosystems									
62	Identify and implement consistent management strategies to monitor, protect and enhance habitat for native terrestrial and aquatic fauna.		G-MW, DSE, DPI						
63	Support existing research activities (including activities relating to the Spotted Tree Frog) to better understand biodiversity issues around the lake.		DSE						
64	Ensure there are consistent and agreed management arrangements between agencies responsible for management of the land around the national park foreshore, in particular critical habitat areas for threatened species such as the Leafy Greenhood population at Woolshed Inlet.		G-MW, DSE, Parks Victoria						DEKO Layer National Vegetation Retention maps-- GMW mapping system. Biodiversity Score
Section 3.6 - Land Management									
70	Assess the lease renewal process to ensure it is timely, well-communicated and efficient, with major changes to lease conditions to be provided in writing.		G-MW						Existing GMW process

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71	Public land managers to spend more proactive time with licence holders talking about the conditions of their licences, and if necessary enforcing compliance.		G-MW						Existing GMW process
74	Review the grazing licence agreements to provide transparency in fee structures and charges.		G-MW						Existing GMW process
75	Ensure annual Lake Eildon Fire Protection Plans take account of supply levels within Lake Eildon and include a strategy for managing 'Code Red' days.		G-MW, DSE, Parks Victoria, Council, CFA						GMW Lake Eildon Fire Protection Plan in reviewed annually with respect Lake % FSL
76	Identify areas of public land suitable for use as Neighbourhood Safer Places in consultation with relevant agencies.		G-MW, DSE, Parks Victoria, Council						GMW has been in evolved in Shire Township Protection Plans and Neighb' Safe Places
77	Mansfield and Murrindindi Shire Councils to develop a coordinated Municipal Fire Management Plan (MFMP) identifying fire risks and mitigation strategies for Lake Eildon. Storage Fire Protection Plans should be linked with the MFMP.		Council, G-MW, CFA						GMW has involvement in Shire MFMP's
79	Build on the forthcoming Goulburn Broken Regional Catchment Strategy (2012) to develop a whole of catchment water quality management plan.		Council, G-MW, GBCMA, GVV						New GBCMA Catchment Strategy workshops being attended by GMW staff GMW NRS RCS Comments # 3674656
80	Implement recommendations for stream bank erosion in the Goulburn Broken Regional River Health Strategy (2005).		GBCMA						GMW works with GBCMA when required
83	Investigate the introduction of additional and/or different conditions on grazing licences regarding the timing and intensity of grazing, and age of stock in order to minimise impacts on water quality.		G-MW, DSE						Existing GMW process
84	Reinforce compliance with licence conditions through adequate monitoring.		G-MW						Compliance undertaken on license renewal
85	Investigate alternatives to grazing for weed control and fire fuel load reduction, for example crash grazing (where stock are allowed access for short intense periods), controlled burns in association with the Country Fire Authority, slashing or spraying.		G-MW, DPI, CFA						Existing GMW process
86	Maintain, and where appropriate expand, existing vegetation in buffer zones along the Lake Eildon foreshore in order to protect water quality by acting as a filter for pathogens and other parameters.		G-MW, GVV						
88	Develop a management plan to actively manage the dry lake bed which includes the management of fences during fluctuating water levels.		G-MW						GMW Grazing license includes fence movements with lake level %
89	Minimise fencing below full supply level to the extent practicable and remove old fences.		G-MW						Existing GMW process
Section 3.7 - Planning and Development									
48	Work with park operators to ensure lease tenure supports investment and commercial viability.		G-MW, commercial operators						GMW Property Dept consistent discussion with Park owners for continuation of tenure
90	Encourage agencies and authorities to adopt agreed and consistent principles and processes to manage the impacts of planning and development around the lake.		G-MW, Council, DPCD, GVV						GMW are a willing partner to adopt consistent planning principals
91	Establish a Lake Eildon planners' forum to meet regularly to discuss and resolve planning issues specific to Lake Eildon ensuring the consistent application and interpretation of planning scheme provisions.		G-MW, Council, DPCD, GVV						GMW would support Shire councils in a consistent interpretation of the planning scheme provisions.