

# Strategies for Winter Creek Sub-catchment

## WINTER CREEK

Location	PMI No.	Priority Management Issue	Action No.	Action	Priority	Cost		Respons-ibility	Extent of Application
						Capital	Ongoing		
<b>STRATEGY 71</b>									
Winter Creek East Branch including Banyule Drain	9.5.1a	Reduction in floodplain capacity has reduced potential for future water quality treatments in this area.	LU1	Amend the Ballarat Planning Scheme MSS to include information recently developed through the municipal stormwater management plan, to highlight stormwater management as a strategic issue and to establish the rationale for other changes to the Planning Scheme. An amendment could do this by setting out the strategic context of Ballarat in the Glenelg-Hopkins and Corangamite catchments (relating to urban stormwater), describing Ballarat's waterways, waterbodies, floodplains, riparian zones and drainage network and the values/relationships between these, identifying the issues and priority actions from the stormwater management plan, including objectives and strategies for dealing with stormwater in future development and identifying implementation measures such as overlays and local planning policy.	VH	as per 3.5.1	as per 3.5.1	COB	M
			LU9	Amend the Ballarat Planning Scheme to incorporate floodplain zones and overlays. These should discourage urban development in floodplains and receive input and support from relevant Referral Agencies. Link to structure planning for new areas.	VH	as per 5.5.1b	as per 5.5.1b	COB, CMA	M
<b>STRATEGY 72</b>									
Winter Creek East Branch including Banyule Drain	9.5.1b	Restricted capacity and poor water quality of Banyule Drain.	RE2	With the EPA, address compliance with EPA regulations. Give priority to industrial sites and estates.	VH	as per 3.5.1	as per 3.5.1	COB, EPA	M
			ST9	Construct the Lawrie Drive Retarding Basin and wetland to treat local catchment stormwater runoff	M	\$350,000	\$17,500	COB, Developer, Other Funds	L
<b>STRATEGY 73</b>									
Winter Creek East Branch including Banyule Drain	9.5.1c	Impact of industrial runoff and re-development on the proposed water quality treatment wetlands as part of future residential development.	RE1	Implement a municipal local law to address construction site management.	VH	as per 3.5.1	as per 3.5.1	COB	M
			RE2	as per 9.5.1b	VH	as per 3.5.1	as per 3.5.1	COB, EPA	M
			ST10	Construct a stormwater treatment wetland in the land bounded by Wiltshire Lane and Latrobe St, to treat industrial runoff prior to discharging to the downstream environment.	M	\$440,000	\$44,000		
<b>STRATEGY 74</b>									
Winter Creek Middle Branch	9.5.2a	Reduction in the flood storage capacity and natural valley form of Winter Creek.	LU1	as per 9.5.1a	VH	as per 3.5.1	as per 3.5.1	COB	M
			LU9	as per 9.5.1a	VH	as per 5.5.1b	as per 5.5.1b	COB, CMA	M
			FC12	Construct the Lawrie Drive Retarding Basin and wetland system to provide a flow management function for discharges from the local catchment into the Banyule Drain as recommended in the recent report to council titled 'Lawrie Drive Reatrdring Basin and Wetland Functional Design Report'	VH	\$100,000	\$3,000	COB	L
<b>STRATEGY 75</b>									

Location	PMI No.	Priority Management Issue	Action No.	Action	Priority	Cost		Responsibility	Extent of Application
						Capital	Ongoing		
Winter Creek Middle Branch	9.5.2b	Existing planning documents do not include adequate stormwater management guidelines, which will lead to degradation of receiving waterway values in future development.	LU1	as per 9.5.1a	VH	as per 3.5.1	as per 3.5.1	COB	M
			LU3	Develop model to review or prepare structure plans for major development areas based on the findings of the municipal stormwater management plan; incorporate plans in the Ballarat Planning Scheme. Provide development setbacks from waterways to protect floodplains and natural drainage/environmental functions. Avoid back fences to increase surveillance of open space corridors along waterways, improve appreciation and enjoyment of waterways by new residents. Identify structural measures for flood protection, reduced peak storm flows and treatment of pollutant loads by location (avoid floodplains), approximate size and type, development staging, funding and management. Identify open space for residents independent of land required for drainage functions/scheme. Integrate retarding basins and wetlands with open space. Integrate with urban design guidelines.	VH	as per 5.5.1b	as per 5.5.1b	COB, CMA	M
			LU8	Based on the model and relevant actions from the municipal stormwater management plan, revise structure plans (ODP) for Winter Creek catchment: Sebastapol/West Sebastapol, Alfredton and Delacombe (see LU3 for detail).	VH	\$15,000	\$0	COB	L
<b>STRATEGY 76</b>									
Winter Creek Middle Branch	9.5.2c	CHW sewerage line follows the creek alignment which restricts the installation of retarding basins and water quality treatment wetlands.	MO15	CHW to review sewer alignment in Winter Creek Catchment, and liaise with other agencies to determine future provision of sewers and depths prior to installation.	H	?	?	CHW, COB	L
<b>STRATEGY 77</b>									
Winter Creek Middle Branch	9.5.2d	Impact of Ballarat Saleyards on water quality in Winter Creek and tributaries	M016	Develop an Environmental Site Management Plan for the Ballarat Saleyards to effectively manage stormwater and effluent from the site.	H	\$10,000	\$500	Ballarat Saleyards	L