

APPENDIX 15

Existing characteristics of Keswick Creek
between Le Hunte Street and Anzac Highway



Segment	Location	Chainage*		Segment Length m	Invert * (mAHD)		Channel Description	Channel Depth* m	Grade %	Current Capacity* m ³ /s	Manning's Roughness*	Reserve Width m	Vegetation Description	Planning Zone	Land Ownership	Care and Custody
		DS	US		DS	US										
K1	Barracks Channel DS	1745	1640	105	23	24.9	Concrete-lined channel 1.5m base width, 3:2 batters.	3.6	2.1	20	0.013	N/A	None	Excluded	Federal Government	Federal Government
K2	Barracks Channel US	1640	1310	330	24.9	26.6	Concrete-lined channel, 2.5m base width, 1:1 batters (becoming vertical sides at railway). Span includes 4 private bridges.	2	0.5	20	0.013	N/A	None	Excluded	Federal Government	Federal Government
K3	Keswick Rail Corridor	1310	1280	30	26.6	26.7	Rectangular concrete open channel, 4m wide base overlaid with rail bridge.	3	0.3	30	0.015	N/A	None	Excluded/Showgrounds	DPTI/ARTC	DPTI



Segment	Location	Chainage*		Segment Length m	Invert * (mAHD)		Channel Description	Channel Depth* m	Grade %	Current Capacity* m ³ /s	Manning's Roughness*	Reserve Width m	Vegetation Description	Planning Zone	Land Ownership	Care and Custody
		DS	US		DS	US										
K4	Showgrounds Shared Path	1280	1275	5	26.7	Unknown	2x3.2mx1.8m box culverts (brick walls)	N/A	Unknown	25	0.015	N/A	N/A	Showgrounds	State Government (Leased to RAHS)	TBC
K5	Showgrounds	1275	800	475	Unknown	Unknown	2x3.0mx1.6m box culverts (brick walls) [†]	N/A	Unknown	25	0.015	N/A	N/A	Showgrounds	State Government (Leased to RAHS)	TBC
K6	Goodwood Road	800	780	20	Unknown	29.6	2x2.4mx1.6m box culverts [†]	N/A	Unknown	25	0.015	N/A	N/A	Showgrounds/ Mixed Use 2	City of Unley	DPTI

[†]Information provided by RAHS



Segment	Location	Chainage*		Segment Length m	Invert* (mAHD)		Channel Description	Channel Depth* m	Grade %	Current Capacity* m³/s	Manning's Roughness*	Reserve Width m	Vegetation Description	Planning Zone	Land Ownership	Care and Custody
		DS	US		DS	US										
K7	Goodwood Road to Wayville Reserve	780	655	125	29.6	29.8	3.7m wide concrete base, vertical (at Goodwood Rd) to 1:1 concrete batters with overgrown vegetation	2.3	0.2	25	0.015 base, 0.02 sides	N/A	Overhanging vegetation on channel banks and batters.	Mixed Use 2	Private	TBC
K8	Wayville Reserve	655	525	130	29.8	30.2	3.4m wide concrete base, 1:0.5 concrete batters. Includes pedestrian bridge (not in HECRAS).	2.2	0.3	35	0.015 base, 0.02 sides	4 (upstream of main reserve)	Banks quite densely vegetated.	RB300 (Residential)	City of Unley	City of Unley
K9	Wayville Reserve to Joslin St	525	470	55	30.2	30.3	3.4m wide concrete base, 1:0.5 concrete batters	2.2	0.2	15	0.015 base, 0.02 sides	N/A	Banks quite densely vegetated.	RB3000 (Residential)	Private	TBC
K10	Joslin St Bridge	470	450	20	30.3	30.4	4.9m wide x 1.5m high box culvert	N/A	0.5	20	0.015	N/A	N/A	RB3000 (Residential)	City of Unley	City of Unley
K11	Joslin St to Le Hunte St	450	300	150	30.4	30.9	3m wide concrete base, near vertical concrete sides	2.3	0.3	15	0.015	9	Banks moderately vegetated.	RB300 (Residential)	Private/City of Unley	City of Unley