

APPENDIX K

MULTI-CRITERIA ANALYSIS RESULTS

Table K1 Locations of reaches considered in MCA

WB ID	WB name	Reach #	Reach location	u/s		d/s	
				x	y	x	y
10611	Nith - Sanquhar to New Cumnock	1	Upstream Duncansburn Bridge	262161	614020	266928	613338
10629	Cample Water	1	Downstream Kirkbog Bank	287568	594392	286801	593661
10624	Scar Water	1	Downstream half	285883	594155	287100	592496
10634	Pennyland Burn	1	Downstream Wellington Bridge	297160	581211	296918	580083
10634	Pennyland Burn	2	Kerricks to East Gallaberry	295672	583522	296572	582598
10634	Pennyland Burn	3	Foregirth	295341	584199	295672	583522
10610	Nith - Dumfries to Sanquhar	5	Upstream Auldgirth	287777	591367	289382	588949
10631	Crichope Linn	1	Adjacent to forestry	292445	597544	293006	596547
10633	Laggan Burn	2	Woodhead	287978	584715	289652	585057
10629	Cample Water	3	Cample to New Cample	289671	594148	288780	594011
10633	Laggan Burn	3	Downstream Throughgate	287392	584235	287795	584550
10624	Scar Water	2	Penpont	284584	594034	285611	594374
10633	Laggan Burn	1	Downstream of A76	292741	583479	293290	583472
10629	Cample Water	2	Gallows Knowe	288425	594284	288252	594323
10610	Nith - Dumfries to Sanquhar	6	Thornhill	287082	595471	287212	593115
10633	Laggan Burn	4	Upstream Throughgate	286916	583715	287392	584235
10610	Nith - Dumfries to Sanquhar	1	Pennyland Burn to A75	296898	580045	297818	578476
10631	Crichope Linn	2	Townhead	291688	598286	292046	597989
10610	Nith - Dumfries to Sanquhar	4	Auldgirth	289587	588515	291473	585537
10610	Nith - Dumfries to Sanquhar	3	Laggan Burn to Swanbridge	293550	583456	295333	582478
10610	Nith - Dumfries to Sanquhar	2	Swanbridge Cottage to Holm	295315	582535	296053	581201
10604	Cluden Water / Cairn Water	5	Wallaceton to Kiln Plantation	284710	587143	285662	585092
10604	Cluden Water / Cairn Water	6	Crossford Bridge to Wallaceton	283450	588291	284586	587225
10604	Cluden Water / Cairn Water	7	Shaw Plantation	282165	588728	282840	588450
10604	Cluden Water / Cairn Water	4	Gardener's Pool	285783	584744	286030	584223
10604	Cluden Water / Cairn Water	9	Upstream Kirkland bridge	278550	590226	281218	590087
10604	Cluden Water / Cairn Water	8	Kirkland bridge to Shaw Wood	281218	590087	282031	588782
10604	Cluden Water / Cairn Water	2	Drumpark Bridge to Cairnryan	288155	580028	289856	579783
10604	Cluden Water / Cairn Water	1	Hallhill to Roundhead Plantation	290689	579922	292604	579728
10604	Cluden Water / Cairn Water	3	Upstream Drumpark Bridge	286228	581983	287581	580160

Table K2 Morphology and NFM scores

WB ID	WB name	Reach #	Morphology score					NFM benefit score
			Improves status to Good	Improves status by 2 classes	Improves status by 1 class	Adjusted capacity released	Overall score	
10611	Nith - Sanquhar to New Cumnock	1	1.00	0.75	0.50	0.12	2.4	0.70
10629	Cample Water	1		0.75	0.50	0.13	1.4	0.00
10624	Scar Water	1		0.75	0.50	0.25	1.5	0.00
10634	Pennyland Burn	1			0.50	0.04	0.5	0.00
10634	Pennyland Burn	2			0.50	0.04	0.5	0.00
10634	Pennyland Burn	3			0.50	0.03	0.5	0.00
10610	Nith - Dumfries to Sanquhar	5				0.03	0.0	0.00
10631	Crichope Linn	1	1.00		0.50	0.06	1.6	0.00
10633	Laggan Burn	2			0.50	0.03	0.5	0.00
10629	Cample Water	3			0.50	0.07	0.6	0.00
10633	Laggan Burn	3			0.50	0.02	0.5	0.00
10624	Scar Water	2				0.06	0.1	0.00
10633	Laggan Burn	1			0.50	0.03	0.5	0.00
10629	Cample Water	2				0.01	0.0	0.00
10610	Nith - Dumfries to Sanquhar	6				0.01	0.0	0.00
10633	Laggan Burn	4			0.50	0.03	0.5	0.00
10610	Nith - Dumfries to Sanquhar	1				0.00	0.0	0.00
10631	Crichope Linn	2				0.02	0.0	0.00
10610	Nith - Dumfries to Sanquhar	4				0.00	0.0	0.00
10610	Nith - Dumfries to Sanquhar	3				0.01	0.0	0.00
10610	Nith - Dumfries to Sanquhar	2				0.00	0.0	0.00
10604	Cluden Water / Cairn Water	5				0.02	0.0	0.00
10604	Cluden Water / Cairn Water	6				0.01	0.0	0.00
10604	Cluden Water / Cairn Water	7				0.00	0.0	0.00
10604	Cluden Water / Cairn Water	4				0.00	0.0	0.00
10604	Cluden Water / Cairn Water	9				0.04	0.0	0.00
10604	Cluden Water / Cairn Water	8				0.03	0.0	0.00
10604	Cluden Water / Cairn Water	2				0.01	0.0	-0.50
10604	Cluden Water / Cairn Water	1				0.01	0.0	-0.50
10604	Cluden Water / Cairn Water	3				0.01	0.0	-0.50

Table K3 Environmental scores

WB ID	WB name	Reach #			
			Surrounding habitat restoration potential	Potential to address stock poaching	Total
10611	Nith - Sanquhar to New Cumnock	1	1	0	1
10629	Cample Water	1	1	2	3
10624	Scar Water	1	1	0	1
10634	Pennyland Burn	1	1	2	3
10634	Pennyland Burn	2	1	2	3
10634	Pennyland Burn	3	1	2	3
10610	Nith - Dumfries to Sanquhar	5	3	2	5
10631	Crichope Linn	1	1	0	1
10633	Laggan Burn	2	3	2	5
10629	Cample Water	3	1	2	3
10633	Laggan Burn	3	1	2	3
10624	Scar Water	2	1	2	3
10633	Laggan Burn	1	2	2	4
10629	Cample Water	2	2	2	4
10610	Nith - Dumfries to Sanquhar	6	1	2	3
10633	Laggan Burn	4	3	0	3
10610	Nith - Dumfries to Sanquhar	1	1	0	1
10631	Crichope Linn	2	2	2	4
10610	Nith - Dumfries to Sanquhar	4	2	2	4
10610	Nith - Dumfries to Sanquhar	3	2	0	2
10610	Nith - Dumfries to Sanquhar	2	1	0	1
10604	Cluden Water / Cairn Water	5	3	0	3
10604	Cluden Water / Cairn Water	6	1	2	3
10604	Cluden Water / Cairn Water	7	1	0	1
10604	Cluden Water / Cairn Water	4	1	0	1
10604	Cluden Water / Cairn Water	9	1	0	1
10604	Cluden Water / Cairn Water	8	1	0	1
10604	Cluden Water / Cairn Water	2	2	0	2
10604	Cluden Water / Cairn Water	1	1	2	3
10604	Cluden Water / Cairn Water	3	2	0	2

Table K4 Socio-economic scores

WB ID	WB name	Reach #	Socio-economic criteria			
			Affects critical infrastructure	Potential to create recreational infrastructure	Awareness raising potential	Total
10611	Nith - Sanquhar to New Cumnock	1	-1	0	2	1
10629	Cample Water	1	0	0	2	2
10624	Scar Water	1	0	0	2	2
10634	Pennyland Burn	1	0	0	2	2
10634	Pennyland Burn	2	0	0	2	2
10634	Pennyland Burn	3	0	0	2	2
10610	Nith - Dumfries to Sanquhar	5	0	0	2	2
10631	Crichope Linn	1	-1	0	0	-1
10633	Laggan Burn	2	-1	0	0	-1
10629	Cample Water	3	-1	0	2	1
10633	Laggan Burn	3	-1	2	0	1
10624	Scar Water	2	-1	2	2	3
10633	Laggan Burn	1	-1	0	0	-1
10629	Cample Water	2	-1	0	2	1
10610	Nith - Dumfries to Sanquhar	6	0	0	2	2
10633	Laggan Burn	4	-1	0	0	-1
10610	Nith - Dumfries to Sanquhar	1	0	2	2	4
10631	Crichope Linn	2	-1	0	0	-1
10610	Nith - Dumfries to Sanquhar	4	-1	0	0	-1
10610	Nith - Dumfries to Sanquhar	3	-1	0	2	1
10610	Nith - Dumfries to Sanquhar	2	0	0	2	2
10604	Cluden Water / Cairn Water	5	-1	0	0	-1
10604	Cluden Water / Cairn Water	6	-1	0	0	-1
10604	Cluden Water / Cairn Water	7	0	0	0	0
10604	Cluden Water / Cairn Water	4	0	0	0	0
10604	Cluden Water / Cairn Water	9	-1	0	0	-1
10604	Cluden Water / Cairn Water	8	-1	0	0	-1
10604	Cluden Water / Cairn Water	2	-1	0	2	1
10604	Cluden Water / Cairn Water	1	-1	0	0	-1
10604	Cluden Water / Cairn Water	3	-1	0	0	-1

Table K5 Weighted scores and overall total

WB ID WB name		Reach #	Weighted scores				
			WFD	NFM	Environ-mental	Socio-economic	Total
10611	Nith - Sanquhar to New Cumnock	1	35.0	35.0	0.0	6.0	76.0
10629	Cample Water	1	20.3	14.6	7.5	9.0	51.4
10624	Scar Water	1	22.2	14.6	0.0	9.0	45.8
10634	Pennyland Burn	1	8.0	14.6	7.5	9.0	39.1
10634	Pennyland Burn	2	8.0	14.6	7.5	9.0	39.1
10634	Pennyland Burn	3	7.9	14.6	7.5	9.0	39.0
10610	Nith - Dumfries to Sanquhar	5	0.4	14.6	15.0	9.0	39.0
10631	Crichope Linn	1	23.0	14.6	0.0	0.0	37.6
10633	Laggan Burn	2	7.8	14.6	15.0	0.0	37.4
10629	Cample Water	3	8.4	14.6	7.5	6.0	36.5
10633	Laggan Burn	3	7.7	14.6	7.5	6.0	35.8
10624	Scar Water	2	0.9	14.6	7.5	12.0	35.0
10633	Laggan Burn	1	7.8	14.6	11.3	0.0	33.6
10629	Cample Water	2	0.2	14.6	11.3	6.0	32.0
10610	Nith - Dumfries to Sanquhar	6	0.2	14.6	7.5	9.0	31.3
10633	Laggan Burn	4	7.8	14.6	7.5	0.0	29.9
10610	Nith - Dumfries to Sanquhar	1	0.1	14.6	0.0	15.0	29.6
10631	Crichope Linn	2	0.2	14.6	11.3	0.0	26.1
10610	Nith - Dumfries to Sanquhar	4	0.1	14.6	11.3	0.0	25.9
10610	Nith - Dumfries to Sanquhar	3	0.2	14.6	3.8	6.0	24.5
10610	Nith - Dumfries to Sanquhar	2	0.1	14.6	0.0	9.0	23.7
10604	Cluden Water / Cairn Water	5	0.3	14.6	7.5	0.0	22.4
10604	Cluden Water / Cairn Water	6	0.2	14.6	7.5	0.0	22.3
10604	Cluden Water / Cairn Water	7	0.0	14.6	0.0	3.0	17.6
10604	Cluden Water / Cairn Water	4	0.0	14.6	0.0	3.0	17.6
10604	Cluden Water / Cairn Water	9	0.6	14.6	0.0	0.0	15.1
10604	Cluden Water / Cairn Water	8	0.4	14.6	0.0	0.0	15.0
10604	Cluden Water / Cairn Water	2	0.1	0.0	3.8	6.0	9.9
10604	Cluden Water / Cairn Water	1	0.2	0.0	7.5	0.0	7.7
10604	Cluden Water / Cairn Water	3	0.1	0.0	3.8	0.0	3.9