

RIVER CHALMADALE - SOURCE TO MOUTH, READINGS FROM JUNE

Description	Source at road	River at road	At junction of river, from left	Before Witches Bridge	After Witches Bridge	Middle of nowhere	Meander before sheep dip	Sheep Dip	Glen Farm	Balarie Bridge	Confluence	Newton Bridge
Grid Reference	973483	968487	967490	961493	958495	956497	956498	955501	953502	944499	943499	938503
Width (m)	1.27	1.15	3.25	2.97	4.01	2.85	4.84	4.32	3.79	6.77	6.79	7.67
Depth (cm)	11.43	9.03	7.97	9.1	13.57	11.83	9.99	15.4	17.97	18.62	15	17.05
Slope Angle (°)	2.00	7.00	7.00	5.00	4.00	4.00	1.30	3.70	4.30	1.70	2.70	1.00
Wetted Perimeter (m)	1.35	1.35	3.46	3.75	4.17	3.47	5.32	4.74	4.6	7.5	7.2	8.8
Velocity (m/s)	0.083	0.144	0.150	0.145	0.263	0.158	0.177	0.393	0.197	0.213	0.256	0.343
CSA (m ²)	0.221	0.152	0.208	0.224	0.524	0.372	0.485	0.445	0.732	1.267	0.839	1.452
Discharge (m ³ /s)	0.01714	0.05087	0.06411	0.04633	0.14646	0.18860	0.09220	0.24640	0.14330	0.25900	0.44670	0.38000
Hydraulic Radius	0.1610	0.0867	0.2876	0.0748	0.1164	0.1077	0.0930	0.1120	0.1620	0.1760	0.1300	0.1660
Mean Bedload Size (cm)	4.22	7.37	7.08	11.06	9.01	6.65	10.49	11.05	7.85	9.23	9.01	8.63
Mode Bedload Shape*	3	3	4	3	4	3	3	4	4	4	5	5
Drainage Basin	0.43	0.85	1.45	2.62	3.29	4.09	4.22	4.30	5.59	6.85	13.99	15.90
Distance from True Source (km)	0.857	1.130	1.500	2.140	2.570	2.880	3.170	3.360	3.610	4.530	4.680	5.470
Elevation (m)	199.0	190.0	163.0	106.0	87.5	71.1	65.5	61.3	53.7	19.3	17.5	3.3

* Based on Power's Roundness Index, where 1 = Very Angular, 2 = Angular, 3 = Sub-angular, 4 = Sub-rounded, 5 = Rounded, 6 = Very Rounded

