

HYDROLOGICAL SERVICES PTY. LTD., AUSTRALIA

CERTIFICATE OF CALIBRATION

Date: / /

Current Meter Model: RedBack  
Fan No.  
Diameter:  
Type of Support:  
Method of Calibration: Average Value Equation

Serial No. \_\_\_\_ - \_\_\_\_  
Serial No.  
Pitch:

n < 0.14	V =	2.1535 n	+0.0308 ft/s
0.14 < n < 2.69	V =	2.2904 n	+0.0115 ft/s
n > 2.69	V =	2.3481 n	-0.1437 ft/s

Starting Velocity = 0.082 ft/s  
Maximum Velocity = 26.247 ft/s

Note: 'n' denotes the number of revolutions of the propeller per second  
'V' is the water velocity in feet per second.

Date: 8/10/12

INSPECTED: \_\_\_\_\_

| The above meter has been calibrated in accordance with |  
| AS 3778.6.3-1992. This standard is identical with and has |  
| been reproduced from ISO 3455:1976. |  
| The clause below has been printed with the permission of |  
| Standards Australia from AS 3778.6.1-1992. This standard is |  
| identical with and has been reproduced from ISO 2537:1988. |  
| Clause 7.6 Recalibration. Meters shall be recalibrated |  
| whenever their performance is suspect. In practice for |  
| individually rated meters, recalibration is sometimes |  
| carried out at yearly intervals or after 300 hours of use, |  
| whichever is the shorter. |

D127.08.00

HYDROLOGICAL SERVICES PTY. LTD., AUSTRALIA

CALIBRATION TABLE

Date: / /

Current Meter Model: RedBack Serial No. \_\_\_\_ - \_\_\_\_  
 Fan No. Serial No.  
 Type of Table: Revs/sec vs ft/s  
 Velocity in feet/second at increments of 0.01 Revolutions per second

n	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	n
0.0	*****	*****	*****	0.095	0.117	0.139	0.160	0.182	0.203	0.225	0.0
0.1	0.246	0.268	0.289	0.311	0.332	0.355	0.378	0.401	0.424	0.447	0.1
0.2	0.470	0.492	0.515	0.538	0.561	0.584	0.607	0.630	0.653	0.676	0.2
0.3	0.699	0.721	0.744	0.767	0.790	0.813	0.836	0.859	0.882	0.905	0.3
0.4	0.928	0.951	0.973	0.996	1.019	1.042	1.065	1.088	1.111	1.134	0.4
0.5	1.157	1.180	1.202	1.225	1.248	1.271	1.294	1.317	1.340	1.363	0.5
0.6	1.386	1.409	1.432	1.454	1.477	1.500	1.523	1.546	1.569	1.592	0.6
0.7	1.615	1.638	1.661	1.683	1.706	1.729	1.752	1.775	1.798	1.821	0.7
0.8	1.844	1.867	1.890	1.912	1.935	1.958	1.981	2.004	2.027	2.050	0.8
0.9	2.073	2.096	2.119	2.142	2.164	2.187	2.210	2.233	2.256	2.279	0.9
1.0	2.302	2.325	2.348	2.371	2.393	2.416	2.439	2.462	2.485	2.508	1.0
1.1	2.531	2.554	2.577	2.600	2.622	2.645	2.668	2.691	2.714	2.737	1.1
1.2	2.760	2.783	2.806	2.829	2.852	2.874	2.897	2.920	2.943	2.966	1.2
1.3	2.989	3.012	3.035	3.058	3.081	3.103	3.126	3.149	3.172	3.195	1.3
1.4	3.218	3.241	3.264	3.287	3.310	3.332	3.355	3.378	3.401	3.424	1.4
1.5	3.447	3.470	3.493	3.516	3.539	3.562	3.584	3.607	3.630	3.653	1.5
1.6	3.676	3.699	3.722	3.745	3.768	3.791	3.813	3.836	3.859	3.882	1.6
1.7	3.905	3.928	3.951	3.974	3.997	4.020	4.043	4.065	4.088	4.111	1.7
1.8	4.134	4.157	4.180	4.203	4.226	4.249	4.272	4.294	4.317	4.340	1.8
1.9	4.363	4.386	4.409	4.432	4.455	4.478	4.501	4.523	4.546	4.569	1.9
2.0	4.592	4.615	4.638	4.661	4.684	4.707	4.730	4.753	4.775	4.798	2.0
2.1	4.821	4.844	4.867	4.890	4.913	4.936	4.959	4.982	5.004	5.027	2.1
2.2	5.050	5.073	5.096	5.119	5.142	5.165	5.188	5.211	5.233	5.256	2.2
2.3	5.279	5.302	5.325	5.348	5.371	5.394	5.417	5.440	5.463	5.485	2.3
2.4	5.508	5.531	5.554	5.577	5.600	5.623	5.646	5.669	5.692	5.714	2.4
2.5	5.737	5.760	5.783	5.806	5.829	5.852	5.875	5.898	5.921	5.944	2.5
2.6	5.966	5.989	6.012	6.035	6.058	6.081	6.104	6.127	6.150	6.173	2.6
2.7	6.196	6.220	6.243	6.267	6.290	6.314	6.337	6.361	6.384	6.407	2.7
2.8	6.431	6.454	6.478	6.501	6.525	6.548	6.572	6.595	6.619	6.642	2.8
2.9	6.666	6.689	6.713	6.736	6.760	6.783	6.807	6.830	6.854	6.877	2.9
3.0	6.901	6.924	6.948	6.971	6.995	7.018	7.041	7.065	7.088	7.112	3.0
3.1	7.135	7.159	7.182	7.206	7.229	7.253	7.276	7.300	7.323	7.347	3.1
3.2	7.370	7.394	7.417	7.441	7.464	7.488	7.511	7.535	7.558	7.582	3.2
3.3	7.605	7.629	7.652	7.675	7.699	7.722	7.746	7.769	7.793	7.816	3.3
3.4	7.840	7.863	7.887	7.910	7.934	7.957	7.981	8.004	8.028	8.051	3.4
3.5	8.075	8.098	8.122	8.145	8.169	8.192	8.216	8.239	8.262	8.286	3.5
3.6	8.309	8.333	8.356	8.380	8.403	8.427	8.450	8.474	8.497	8.521	3.6
3.7	8.544	8.568	8.591	8.615	8.638	8.662	8.685	8.709	8.732	8.756	3.7
3.8	8.779	8.803	8.826	8.850	8.873	8.896	8.920	8.943	8.967	8.990	3.8
3.9	9.014	9.037	9.061	9.084	9.108	9.131	9.155	9.178	9.202	9.225	3.9
4.0	9.249	9.272	9.296	9.319	9.343	9.366	9.390	9.413	9.437	9.460	4.0
4.1	9.483	9.507	9.530	9.554	9.577	9.601	9.624	9.648	9.671	9.695	4.1
4.2	9.718	9.742	9.765	9.789	9.812	9.836	9.859	9.883	9.906	9.930	4.2
4.3	9.953	9.977	10.000	10.024	10.047	10.071	10.094	10.117	10.141	10.164	4.3
4.4	10.188	10.211	10.235	10.258	10.282	10.305	10.329	10.352	10.376	10.399	4.4

Current Meter Model: RedBack

Serial No. \_\_\_\_-\_\_\_\_

Fan No.

Serial No.

Type of Table: Revs/sec vs ft/s

Velocity in feet/second at increments of 0.01 Revolutions per second

n	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	n
4.5	10.423	10.446	10.470	10.493	10.517	10.540	10.564	10.587	10.611	10.634	4.5
4.6	10.658	10.681	10.705	10.728	10.751	10.775	10.798	10.822	10.845	10.869	4.6
4.7	10.892	10.916	10.939	10.963	10.986	11.010	11.033	11.057	11.080	11.104	4.7
4.8	11.127	11.151	11.174	11.198	11.221	11.245	11.268	11.292	11.315	11.338	4.8
4.9	11.362	11.385	11.409	11.432	11.456	11.479	11.503	11.526	11.550	11.573	4.9
5.0	11.597	11.620	11.644	11.667	11.691	11.714	11.738	11.761	11.785	11.808	5.0
5.1	11.832	11.855	11.879	11.902	11.926	11.949	11.972	11.996	12.019	12.043	5.1
5.2	12.066	12.090	12.113	12.137	12.160	12.184	12.207	12.231	12.254	12.278	5.2
5.3	12.301	12.325	12.348	12.372	12.395	12.419	12.442	12.466	12.489	12.513	5.3
5.4	12.536	12.560	12.583	12.606	12.630	12.653	12.677	12.700	12.724	12.747	5.4
5.5	12.771	12.794	12.818	12.841	12.865	12.888	12.912	12.935	12.959	12.982	5.5
5.6	13.006	13.029	13.053	13.076	13.100	13.123	13.147	13.170	13.193	13.217	5.6
5.7	13.240	13.264	13.287	13.311	13.334	13.358	13.381	13.405	13.428	13.452	5.7
5.8	13.475	13.499	13.522	13.546	13.569	13.593	13.616	13.640	13.663	13.687	5.8
5.9	13.710	13.734	13.757	13.781	13.804	13.827	13.851	13.874	13.898	13.921	5.9
6.0	13.945	13.968	13.992	14.015	14.039	14.062	14.086	14.109	14.133	14.156	6.0
6.1	14.180	14.203	14.227	14.250	14.274	14.297	14.321	14.344	14.368	14.391	6.1
6.2	14.415	14.438	14.461	14.485	14.508	14.532	14.555	14.579	14.602	14.626	6.2
6.3	14.649	14.673	14.696	14.720	14.743	14.767	14.790	14.814	14.837	14.861	6.3
6.4	14.884	14.908	14.931	14.955	14.978	15.002	15.025	15.048	15.072	15.095	6.4
6.5	15.119	15.142	15.166	15.189	15.213	15.236	15.260	15.283	15.307	15.330	6.5
6.6	15.354	15.377	15.401	15.424	15.448	15.471	15.495	15.518	15.542	15.565	6.6
6.7	15.589	15.612	15.636	15.659	15.682	15.706	15.729	15.753	15.776	15.800	6.7
6.8	15.823	15.847	15.870	15.894	15.917	15.941	15.964	15.988	16.011	16.035	6.8
6.9	16.058	16.082	16.105	16.129	16.152	16.176	16.199	16.223	16.246	16.269	6.9
7.0	16.293	16.316	16.340	16.363	16.387	16.410	16.434	16.457	16.481	16.504	7.0
7.1	16.528	16.551	16.575	16.598	16.622	16.645	16.669	16.692	16.716	16.739	7.1
7.2	16.763	16.786	16.810	16.833	16.857	16.880	16.903	16.927	16.950	16.974	7.2
7.3	16.997	17.021	17.044	17.068	17.091	17.115	17.138	17.162	17.185	17.209	7.3
7.4	17.232	17.256	17.279	17.303	17.326	17.350	17.373	17.397	17.420	17.444	7.4
7.5	17.467	17.491	17.514	17.537	17.561	17.584	17.608	17.631	17.655	17.678	7.5
7.6	17.702	17.725	17.749	17.772	17.796	17.819	17.843	17.866	17.890	17.913	7.6
7.7	17.937	17.960	17.984	18.007	18.031	18.054	18.078	18.101	18.124	18.148	7.7
7.8	18.171	18.195	18.218	18.242	18.265	18.289	18.312	18.336	18.359	18.383	7.8
7.9	18.406	18.430	18.453	18.477	18.500	18.524	18.547	18.571	18.594	18.618	7.9
8.0	18.641	18.665	18.688	18.712	18.735	18.758	18.782	18.805	18.829	18.852	8.0
8.1	18.876	18.899	18.923	18.946	18.970	18.993	19.017	19.040	19.064	19.087	8.1
8.2	19.111	19.134	19.158	19.181	19.205	19.228	19.252	19.275	19.299	19.322	8.2
8.3	19.346	19.369	19.392	19.416	19.439	19.463	19.486	19.510	19.533	19.557	8.3
8.4	19.580	19.604	19.627	19.651	19.674	19.698	19.721	19.745	19.768	19.792	8.4
8.5	19.815	19.839	19.862	19.886	19.909	19.933	19.956	19.979	20.003	20.026	8.5
8.6	20.050	20.073	20.097	20.120	20.144	20.167	20.191	20.214	20.238	20.261	8.6
8.7	20.285	20.308	20.332	20.355	20.379	20.402	20.426	20.449	20.473	20.496	8.7
8.8	20.520	20.543	20.567	20.590	20.613	20.637	20.660	20.684	20.707	20.731	8.8
8.9	20.754	20.778	20.801	20.825	20.848	20.872	20.895	20.919	20.942	20.966	8.9
9.0	20.989	21.013	21.036	21.060	21.083	21.107	21.130	21.154	21.177	21.201	9.0
9.1	21.224	21.247	21.271	21.294	21.318	21.341	21.365	21.388	21.412	21.435	9.1
9.2	21.459	21.482	21.506	21.529	21.553	21.576	21.600	21.623	21.647	21.670	9.2
9.3	21.694	21.717	21.741	21.764	21.788	21.811	21.834	21.858	21.881	21.905	9.3
9.4	21.928	21.952	21.975	21.999	22.022	22.046	22.069	22.093	22.116	22.140	9.4
9.5	22.163	22.187	22.210	22.234	22.257	22.281	22.304	22.328	22.351	22.375	9.5
9.6	22.398	22.422	22.445	22.468	22.492	22.515	22.539	22.562	22.586	22.609	9.6

Current Meter Model: RedBack

Serial No. \_\_\_\_-\_\_\_\_

Fan No.

Serial No.

Type of Table: Revs/sec vs ft/s

Velocity in feet/second at increments of 0.01 Revolutions per second

n	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	n
9.7	22.633	22.656	22.680	22.703	22.727	22.750	22.774	22.797	22.821	22.844	9.7
9.8	22.868	22.891	22.915	22.938	22.962	22.985	23.009	23.032	23.055	23.079	9.8
9.9	23.102	23.126	23.149	23.173	23.196	23.220	23.243	23.267	23.290	23.314	9.9
10.0	23.337	23.361	23.384	23.408	23.431	23.455	23.478	23.502	23.525	23.549	10.0
10.1	23.572	23.596	23.619	23.643	23.666	23.689	23.713	23.736	23.760	23.783	10.1
10.2	23.807	23.830	23.854	23.877	23.901	23.924	23.948	23.971	23.995	24.018	10.2
10.3	24.042	24.065	24.089	24.112	24.136	24.159	24.183	24.206	24.230	24.253	10.3
10.4	24.277	24.300	24.323	24.347	24.370	24.394	24.417	24.441	24.464	24.488	10.4
10.5	24.511	24.535	24.558	24.582	24.605	24.629	24.652	24.676	24.699	24.723	10.5
10.6	24.746	24.770	24.793	24.817	24.840	24.864	24.887	24.910	24.934	24.957	10.6
10.7	24.981	25.004	25.028	25.051	25.075	25.098	25.122	25.145	25.169	25.192	10.7
10.8	25.216	25.239	25.263	25.286	25.310	25.333	25.357	25.380	25.404	25.427	10.8
10.9	25.451	25.474	25.498	25.521	25.544	25.568	25.591	25.615	25.638	25.662	10.9
11.0	25.685	25.709	25.732	25.756	25.779	25.803	25.826	25.850	25.873	25.897	11.0
11.1	25.920	25.944	25.967	25.991	26.014	26.038	26.061	26.085	26.108	26.132	11.1
11.2	26.155	26.178	26.202	26.225	26.249	*****	*****	*****	*****	*****	11.2