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SERVICES

Exploration
Rock Property Measurements
Project Development
Portfolio Management
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Results from Downhole Temperature Profile Readings: SEL 26/2005.

Charlton, Frankford, Nunamura, Perth and Westbury.

Prepared for KUTh Energy Ltd

September 2008 Final Report

Paul Donaldson

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Executive summary

This report provides results obtained from precision temperature logging undertaken in August 2008, of five of KUTh's heat flow holes within tenement SEL26/2005.

All five of the holes logged (Charlton, Frankford, Nunamura, Perth and Westbury) are considered to have reached equilibration. The geothermal gradients are displayed in the enclosed figures, and the logged temperatures are listed in the appendix.

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1.0 Introduction

During August 2008 five of the completed geothermal exploration holes drilled by KUTh Energy were sampled for temperature using a thermistor.

Holes were logged using a thermistor, a type of resistor that relies on the change in resistance to measure temperature changes. Each hole was sampled at 1 metre increments. Results are presented in the following report as graphs of geothermal gradients (Figures 1 to 5) and in tables of temperature recorded per metre.

The results presented for all five holes listed are the results from the second logging runs of these holes, and are considered to be equilibrated. It is therefore expected that the results presented here are an accurate representation of the actual thermal conditions of the holes.

The results provided in this report are based on data collected from the field sampling. Detailed analysis of the thermal properties of the areas sampled will be provided in a separate report for all five holes listed incorporating the data obtained from the conductivity analysis. The temperature profile data aids in the selection and sampling of appropriate lithological intervals for conductivity analysis.

2.0 Results

The results provide recorded temperatures for each metre of the successfully logged holes.

The gradient profiles for each of the logged holes can be seen as averages over 2m, 4m and 10m in Figures 1 to 5. The variable nature of the gradient profile can be indicative of unconfined aquifer flows disturbing the thermal profile of the well.

The corresponding preliminary geothermal gradients for selected sections are displayed in Table 1

Table 1. Geothermal gradient ($^{\circ}\text{C}/\text{km}$) values for selected depth profiles

Depth (m)	Charlton	Frankford	Nunamura	Perth	Westbury
50 - 150	29.9110	29.3323	29.5698	17.3335	28.1083
150 - BoH	44.1940	26.5856	33.2734	34.7814	33.0837

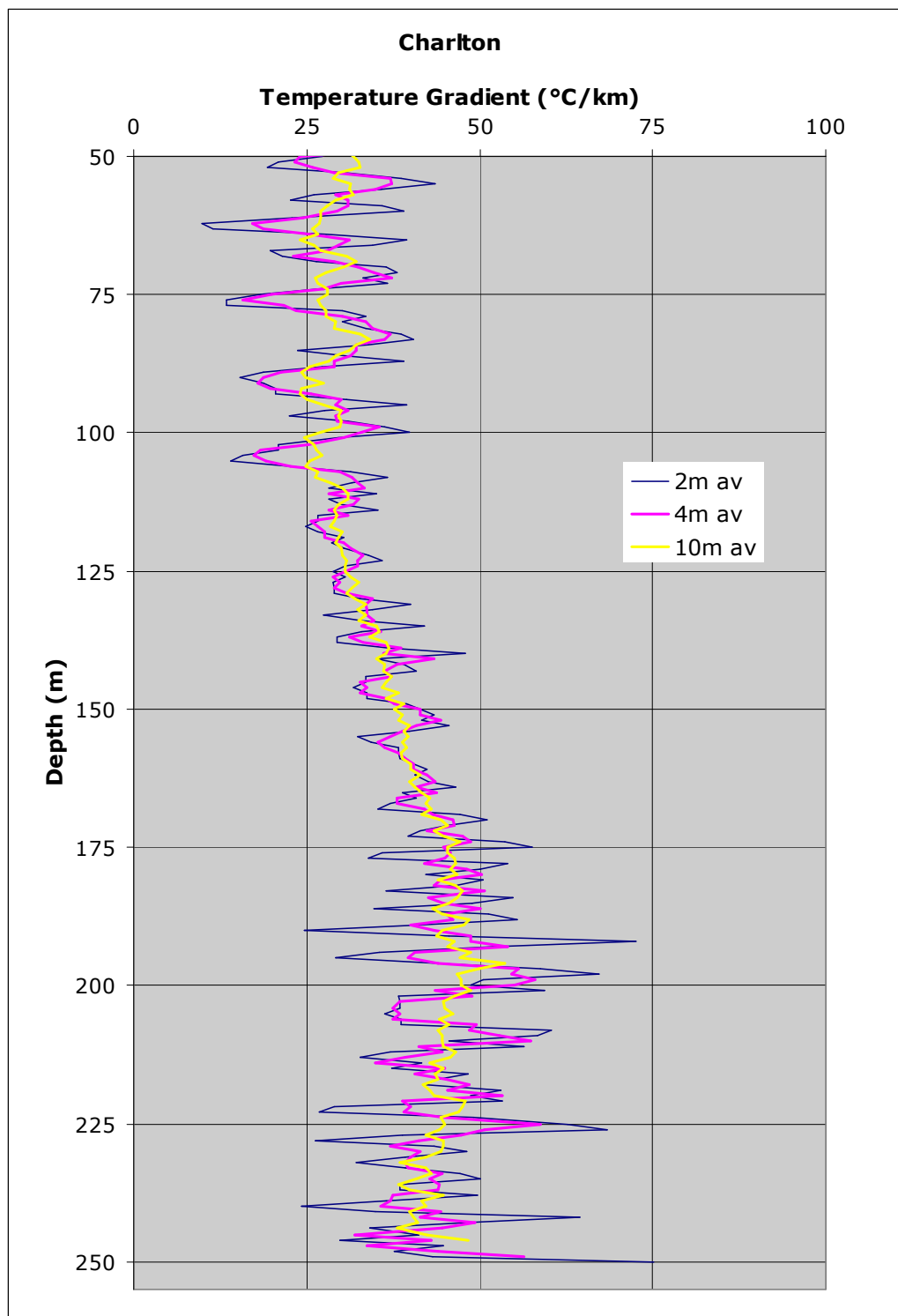
Figure 1 Charlton Geothermal Gradient

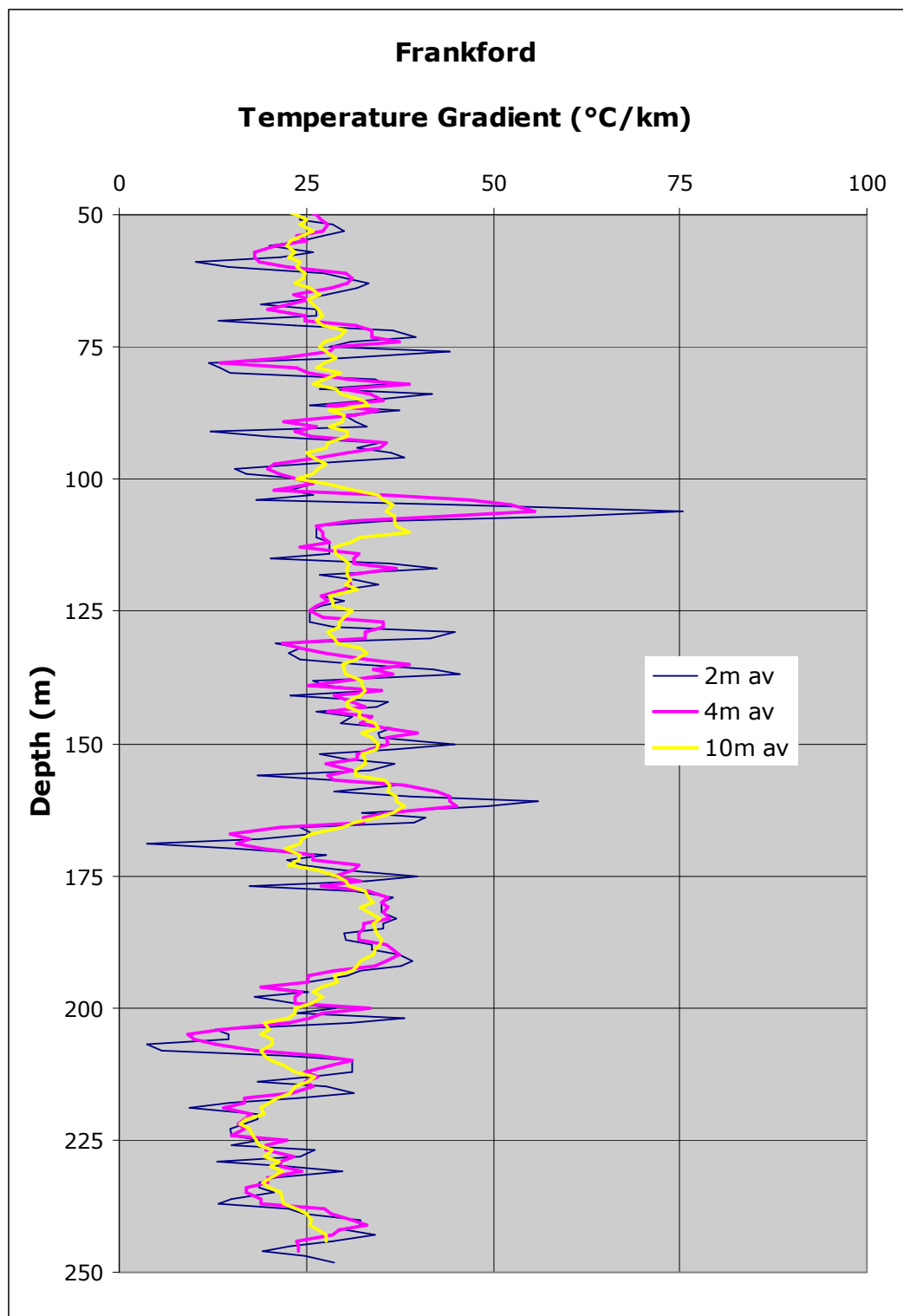
Figure 2 Frankford Geothermal Gradient

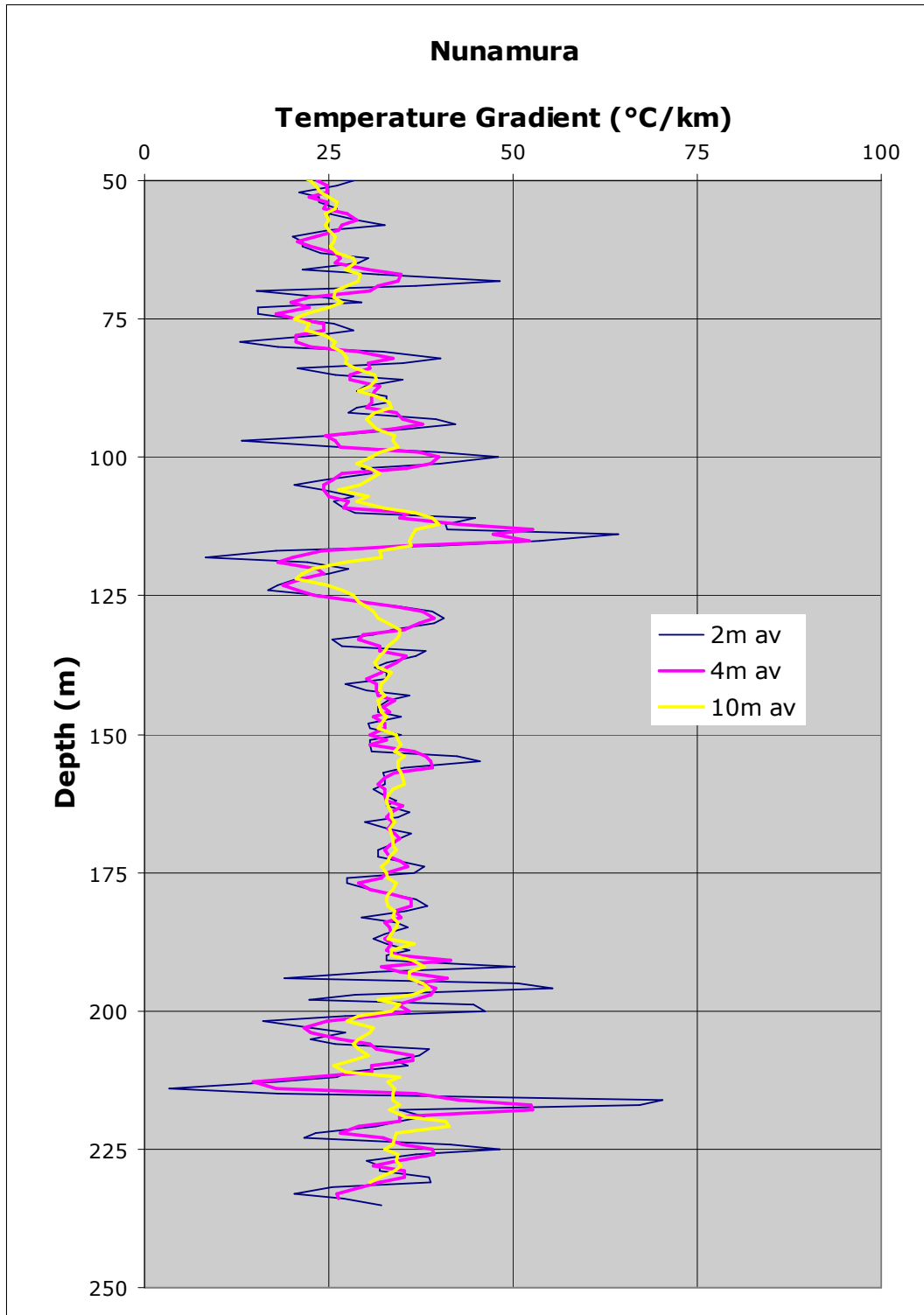
Figure 3 Nunamura Geothermal Gradient

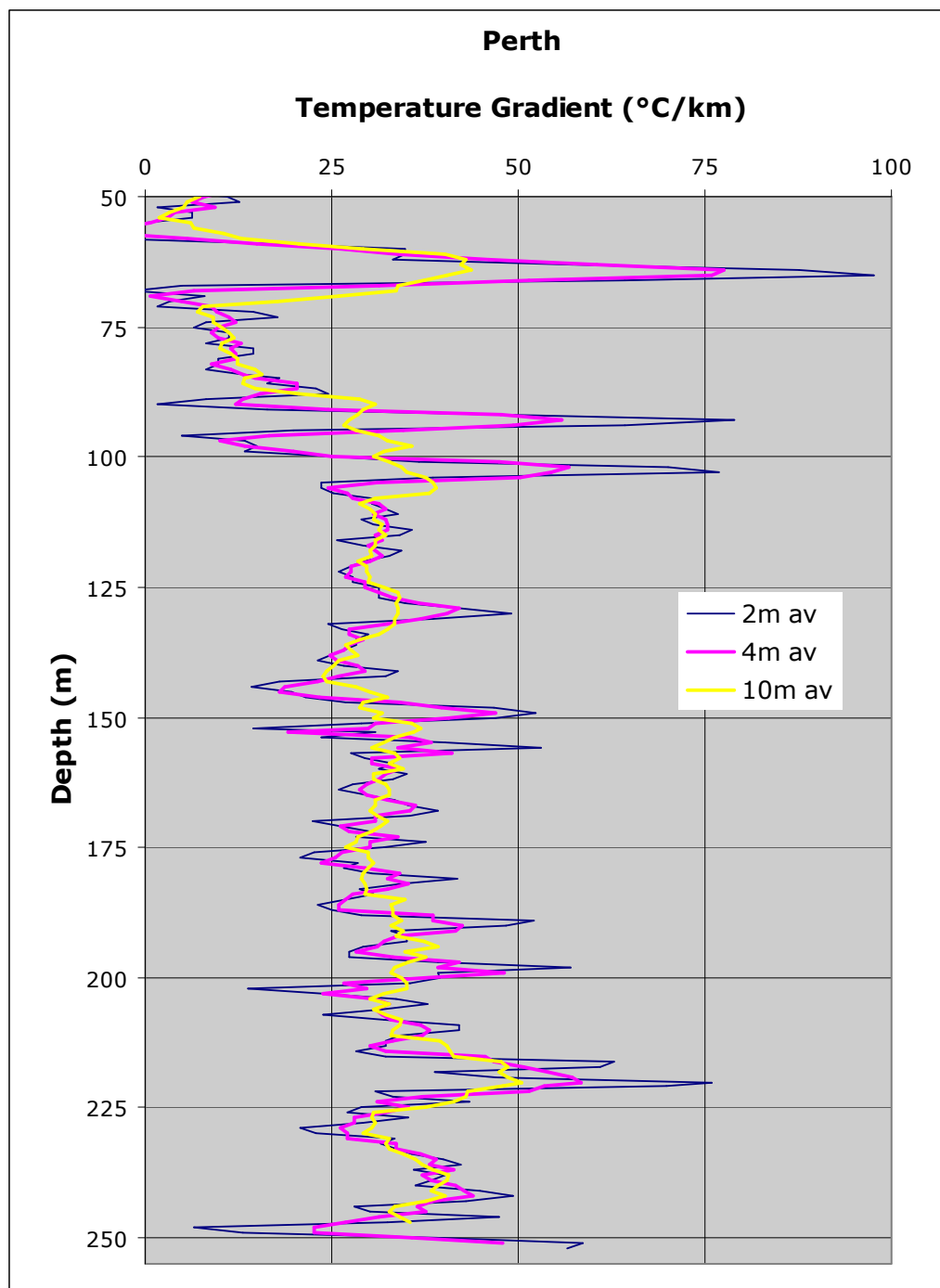
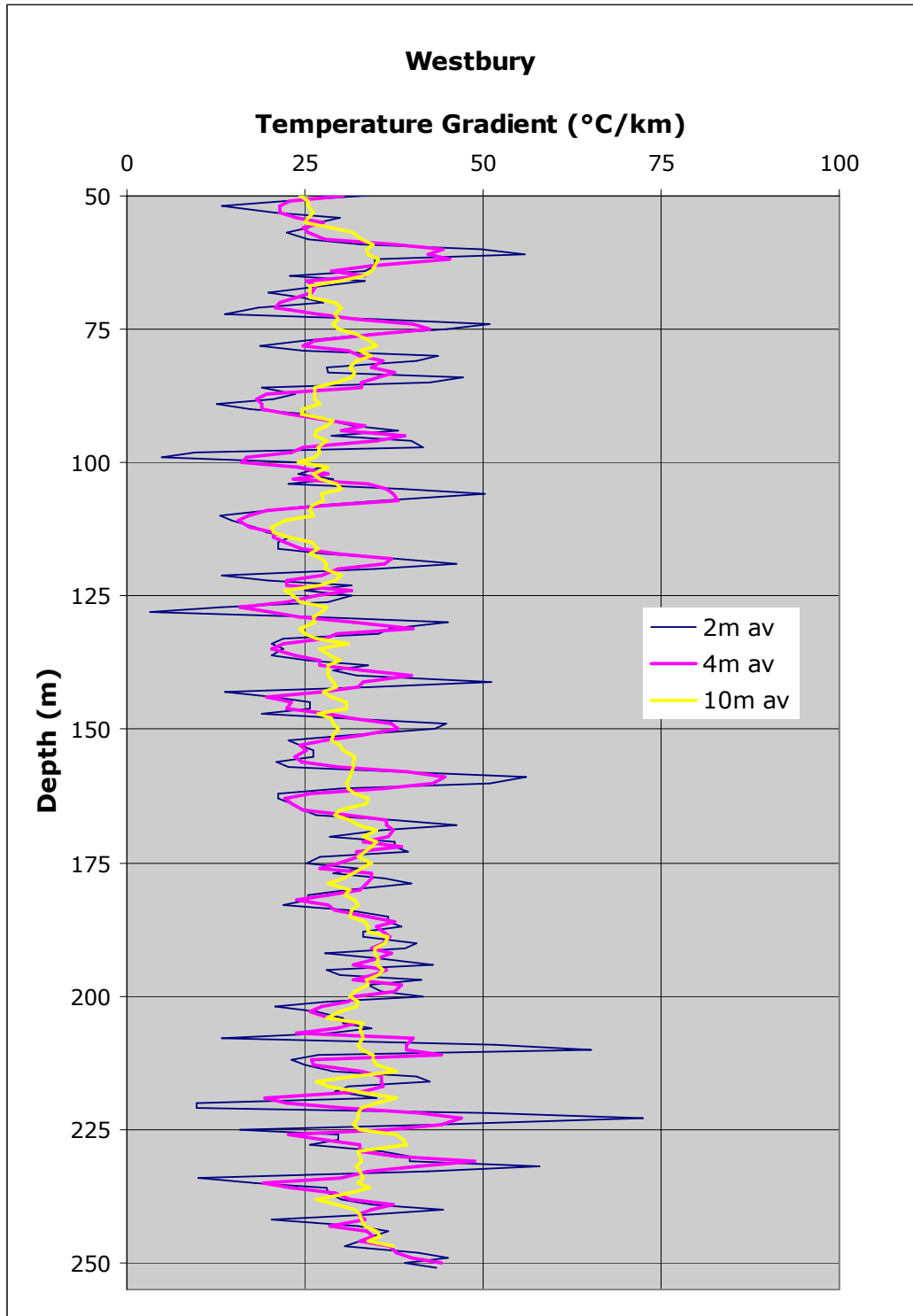
Figure 4 Perth Geothermal Gradient

Figure 5 Westbury Geothermal Gradient

Appendix 1:

Tables of temperatures recorded

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Charlton - Depth vs. Temperature results

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
1	8.9288	43	12.4130	85	13.6709	127	14.8462
2	9.2806	44	12.4511	86	13.6845	128	14.8715
3	9.6394	45	12.4860	87	13.7320	129	14.9041
4	10.0834	46	12.5210	88	13.7627	130	14.9294
5	10.5041	47	12.5465	89	13.7865	131	14.9694
6	10.7398	48	12.6008	90	13.8002	132	15.0094
7	10.8938	49	12.6328	91	13.8172	133	15.0385
8	11.0020	50	12.6552	92	13.8377	134	15.0641
9	11.0697	51	12.6874	93	13.8583	135	15.1043
10	11.3486	52	12.6970	94	13.8788	136	15.1483
11	11.4205	53	12.7260	95	13.9200	137	15.1703
12	11.4325	54	12.7582	96	13.9578	138	15.2071
13	11.4716	55	12.8035	97	13.9750	139	15.2291
14	11.5138	56	12.8456	98	14.0026	140	15.2808
15	11.5651	57	12.8748	99	14.0371	141	15.3252
16	11.6288	58	12.8975	100	14.0752	142	15.3511
17	11.6440	59	12.9203	101	14.1168	143	15.4031
18	11.6622	60	12.9692	102	14.1342	144	15.4329
19	11.6774	61	12.9986	103	14.1585	145	15.4701
20	11.6865	62	13.0149	104	14.1760	146	15.5000
21	11.7292	63	13.0182	105	14.1899	147	15.5337
22	11.7750	64	13.0378	106	14.2039	148	15.5674
23	11.8210	65	13.0739	107	14.2353	149	15.6012
24	11.8332	66	13.1166	108	14.2668	150	15.6463
25	11.8517	67	13.1430	109	14.3088	151	15.6841
26	11.8732	68	13.1562	110	14.3299	152	15.7332
27	11.8978	69	13.1859	111	14.3650	153	15.7673
28	11.9163	70	13.2090	112	14.4002	154	15.8242
29	11.9688	71	13.2586	113	14.4214	155	15.8470
30	12.0400	72	13.2852	114	14.4603	156	15.8890
31	12.0866	73	13.3251	115	14.4921	157	15.9157
32	12.1146	74	13.3584	116	14.5134	158	15.9654
33	12.1677	75	13.3784	117	14.5454	159	15.9923
34	12.1896	76	13.3951	118	14.5631	160	16.0422
35	12.2209	77	13.4051	119	14.5987	161	16.0730
36	12.2428	78	13.4218	120	14.6237	162	16.1270
37	12.2742	79	13.4653	121	14.6558	163	16.1541
38	12.2900	80	13.4888	122	14.6844	164	16.2122
39	12.3057	81	13.5258	123	14.7239	165	16.2471
40	12.3246	82	13.5560	124	14.7562	166	16.2900
41	12.3498	83	13.6033	125	14.7849	167	16.3290
42	12.3719	84	13.6371	126	14.8137	168	16.3641

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
169	16.3994	209	18.2762	249	19.9597		
170	16.4583	210	18.3021	250	20.0311		
171	16.5016	211	18.3672	251	20.1099		
172	16.5489	212	18.4151				
173	16.5845	213	18.4413				
174	16.6281	214	18.4806				
175	16.6916	215	18.5243				
176	16.7434	216	18.5551				
177	16.7634	217	18.6210				
178	16.8114	218	18.6430				
179	16.8716	219	18.7049				
180	16.9118	220	18.7491				
181	16.9561	221	18.8024				
182	17.0127	222	18.8558				
183	17.0492	223	18.8603				
184	17.0857	224	18.9094				
185	17.1590	225	18.9587				
186	17.1835	226	19.0350				
187	17.2285	227	19.0954				
188	17.2859	228	19.1126				
189	17.3393	229	19.1479				
190	17.3682	230	19.1995				
191	17.3888	231	19.2441				
192	17.4591	232	19.2782				
193	17.5338	233	19.3083				
194	17.5630	234	19.3568				
195	17.6047	235	19.4026				
196	17.6214	236	19.4568				
197	17.6926	237	19.4794				
198	17.7388	238	19.5338				
199	17.8273	239	19.5786				
200	17.8400	240	19.6069				
201	17.9247	241	19.6273				
202	17.9587	242	19.6766				
203	18.0013	243	19.7563				
204	18.0354	244	19.7726				
205	18.0782	245	19.8246				
206	18.1082	246	19.8551				
207	18.1554	247	19.8843				
208	18.1856	248	19.9445				

Frankford - Depth vs. Temperature results.

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
1	1.8480	43	10.1889	85	11.2625	127	12.5226
2	3.7116	44	10.2200	86	11.2805	128	12.5545
3	4.9421	45	10.2286	87	11.3135	129	12.5801
4	8.4692	46	10.2344	88	11.3555	130	12.6442
5	10.1294	47	10.2627	89	11.3736	131	12.6635
6	10.1016	48	10.2770	90	11.4188	132	12.6860
7	10.2083	49	10.3054	91	11.4400	133	12.7118
8	10.1663	50	10.3282	92	11.4432	134	12.7312
9	10.0770	51	10.3538	93	11.4794	135	12.7603
10	9.9992	52	10.3767	94	11.5128	136	12.7958
11	9.9910	53	10.4109	95	11.5431	137	12.8444
12	9.9717	54	10.4366	96	11.5857	138	12.8867
13	9.9580	55	10.4653	97	11.6192	139	12.8965
14	9.9471	56	10.4854	98	11.6346	140	12.9421
15	9.9417	57	10.5056	99	11.6499	141	12.9650
16	9.9474	58	10.5372	100	11.6683	142	12.9879
17	9.9476	59	10.5488	101	11.6988	143	13.0370
18	9.9477	60	10.5575	102	11.7202	144	13.0567
19	9.9479	61	10.5778	103	11.7447	145	13.0896
20	9.9481	62	10.6124	104	11.7723	146	13.1192
21	9.9538	63	10.6384	105	11.7815	147	13.1489
22	9.9512	64	10.6789	106	11.8613	148	13.1918
23	9.9541	65	10.7022	107	11.9322	149	13.2183
24	9.9570	66	10.7341	108	11.9817	150	13.2614
25	9.9572	67	10.7516	109	12.0034	151	13.3081
26	9.9601	68	10.7721	110	12.0344	152	13.3349
27	9.9631	69	10.8042	111	12.0562	153	13.3617
28	9.9660	70	10.8247	112	12.0874	154	13.3952
29	9.9717	71	10.8306	113	12.1123	155	13.4355
30	9.9747	72	10.8716	114	12.1436	156	13.4625
31	9.9804	73	10.9038	115	12.1686	157	13.4728
32	10.0028	74	10.9507	116	12.1843	158	13.5200
33	10.0224	75	10.9655	117	12.2407	159	13.5471
34	10.0309	76	11.0068	118	12.2690	160	13.5776
35	10.0478	77	11.0540	119	12.2942	161	13.6250
36	10.0619	78	11.0659	120	12.3321	162	13.6896
37	10.0648	79	11.0779	121	12.3637	163	13.7237
38	10.0761	80	11.0928	122	12.3922	164	13.7545
39	10.0875	81	11.1077	123	12.4176	165	13.8058
40	10.0988	82	11.1611	124	12.4525	166	13.8334
41	10.1241	83	11.1790	125	12.4716	167	13.8541
42	10.1467	84	11.2148	126	12.5034	168	13.8851

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
169	13.8922	209	14.9833	249	15.8934		
170	13.8923	210	15.0089				
171	13.9234	211	15.0455				
172	13.9477	212	15.0711				
173	13.9685	213	15.1078				
174	13.9963	214	15.1226				
175	14.0275	215	15.1447				
176	14.0762	216	15.1779				
177	14.0937	217	15.2074				
178	14.1112	218	15.2259				
179	14.1566	219	15.2371				
180	14.1846	220	15.2446				
181	14.2266	221	15.2743				
182	14.2548	222	15.2818				
183	14.2970	223	15.3078				
184	14.3288	224	15.3116				
185	14.3676	225	15.3376				
186	14.3995	226	15.3489				
187	14.4279	227	15.3676				
188	14.4599	228	15.4011				
189	14.4955	229	15.4161				
190	14.5276	230	15.4274				
191	14.5704	231	15.4611				
192	14.6062	232	15.4873				
193	14.6456	233	15.5024				
194	14.6708	234	15.5250				
195	14.7068	235	15.5401				
196	14.7213	236	15.5664				
197	14.7466	237	15.5703				
198	14.7720	238	15.5929				
199	14.7830	239	15.6156				
200	14.8192	240	15.6421				
201	14.8410	241	15.6799				
202	14.8665	242	15.7064				
203	14.9172	243	15.7406				
204	14.9282	244	15.7748				
205	14.9429	245	15.7977				
206	14.9575	246	15.8206				
207	14.9722	247	15.8360				
208	14.9650	248	15.8704				

Nunamura - Depth vs. Temperature results.

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
1	4.6974	43	7.7414	85	8.7792	127	10.0720
2	7.6856	44	7.7709	86	8.8156	128	10.1111
3	7.9418	45	7.7807	87	8.8495	129	10.1503
4	7.9865	46	7.8004	88	8.8756	130	10.1924
5	8.0438	47	7.8176	89	8.9070	131	10.2290
6	8.2143	48	7.8398	90	8.9410	132	10.2600
7	8.2572	49	7.8595	91	8.9725	133	10.2910
8	8.2824	50	7.8818	92	8.9988	134	10.3108
9	8.2799	51	7.9164	93	9.0277	135	10.3448
10	8.1539	52	7.9338	94	9.0779	136	10.3873
11	8.0388	53	7.9586	95	9.1122	137	10.4186
12	7.9392	54	7.9810	96	9.1493	138	10.4528
13	7.8773	55	8.0058	97	9.1626	139	10.4813
14	7.8304	56	8.0333	98	9.1759	140	10.5184
15	7.7663	57	8.0557	99	9.2158	141	10.5471
16	7.7344	58	8.0907	100	9.2557	142	10.5729
17	7.6952	59	8.1208	101	9.3119	143	10.6073
18	7.6585	60	8.1408	102	9.3360	144	10.6447
19	7.6316	61	8.1609	103	9.3709	145	10.6736
20	7.6072	62	8.1835	104	9.3978	146	10.7082
21	7.5878	63	8.2037	105	9.4193	147	10.7371
22	7.5659	64	8.2314	106	9.4382	148	10.7777
23	7.5537	65	8.2642	107	9.4679	149	10.7980
24	7.5513	66	8.2895	108	9.4949	150	10.8387
25	7.5464	67	8.3072	109	9.5193	151	10.8679
26	7.5464	68	8.3528	110	9.5491	152	10.8999
27	7.5464	69	8.4036	111	9.5762	153	10.9291
28	7.5464	70	8.4266	112	9.6388	154	10.9613
29	7.5463	71	8.4342	113	9.6579	155	11.0141
30	7.5560	72	8.4751	114	9.7208	156	11.0523
31	7.5657	73	8.4930	115	9.7866	157	11.0848
32	7.5682	74	8.5058	116	9.8279	158	11.1172
33	7.5779	75	8.5237	117	9.8665	159	11.1497
34	7.5827	76	8.5468	118	9.8637	160	11.1823
35	7.5973	77	8.5750	119	9.8831	161	11.2120
36	7.6168	78	8.6033	120	9.9080	162	11.2476
37	7.6338	79	8.6213	121	9.9384	163	11.2804
38	7.6534	80	8.6291	122	9.9578	164	11.3132
39	7.6680	81	8.6574	123	9.9801	165	11.3520
40	7.6827	82	8.6936	124	9.9940	166	11.3820
41	7.7022	83	8.7376	125	10.0134	167	11.4120
42	7.7218	84	8.7636	126	10.0413	168	11.4480

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
169	11.4841	209	12.8146				
170	11.5173	210	12.8535				
171	11.5505	211	12.8860				
172	11.5808	212	12.9087				
173	11.6141	213	12.9381				
174	11.6506	214	12.9446				
175	11.6902	215	12.9447				
176	11.7237	216	12.9806				
177	11.7451	217	13.0854				
178	11.7787	218	13.1150				
179	11.8063	219	13.1545				
180	11.8462	220	13.1909				
181	11.8800	221	13.2240				
182	11.9232	222	13.2538				
183	11.9510	223	13.2704				
184	11.9819	224	13.2970				
185	12.0191	225	13.3536				
186	12.0532	226	13.3936				
187	12.0843	227	13.4271				
188	12.1155	228	13.4539				
189	12.1498	229	13.4908				
190	12.1873	230	13.5177				
191	12.2155	231	13.5682				
192	12.2532	232	13.5952				
193	12.3161	233	13.6189				
194	12.3161	234	13.6358				
195	12.3539	235	13.6731				
196	12.4172	236	13.7002				
197	12.4648						
198	12.4743						
199	12.5093						
200	12.5636						
201	12.6019						
202	12.6180						
203	12.6340						
204	12.6629						
205	12.6886						
206	12.7080						
207	12.7402						
208	12.7854						

Perth - Depth vs. Temperature results.

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
1	9.3591	43	12.2535	85	12.9188	127	14.1848
2	9.5073	44	12.2568	86	12.9350	128	14.2231
3	9.9259	45	12.2631	87	12.9513	129	14.2546
4	10.2922	46	12.2758	88	12.9807	130	14.3071
5	10.8396	47	12.2758	89	13.0003	131	14.3528
6	11.1566	48	12.2885	90	12.9970	132	14.3844
7	11.3500	49	12.2980	91	13.0035	133	14.4021
8	11.5123	50	12.2949	92	13.0297	134	14.4373
9	11.6001	51	12.3201	93	13.0986	135	14.4621
10	11.6609	52	12.3201	94	13.1875	136	14.4939
11	11.6731	53	12.3233	95	13.2272	137	14.5188
12	11.6854	54	12.3327	96	13.2272	138	14.5472
13	11.6672	55	12.3358	97	13.2371	139	14.5685
14	11.6217	56	12.3327	98	13.2537	140	14.5934
15	11.6612	57	12.3264	99	13.2669	141	14.6219
16	11.6796	58	12.3201	100	13.2802	142	14.6612
17	11.6918	59	12.3169	101	13.3167	143	14.6862
18	11.7163	60	12.3547	102	13.3534	144	14.6970
19	11.7347	61	12.3863	103	13.4569	145	14.7149
20	11.7531	62	12.4243	104	13.5073	146	14.7364
21	11.7745	63	12.4529	105	13.5342	147	14.7579
22	11.7899	64	12.5388	106	13.5544	148	14.7903
23	11.8084	65	12.6283	107	13.5814	149	14.8516
24	11.8238	66	12.7343	108	13.6050	150	14.8949
25	11.8423	67	12.7569	109	13.6422	151	14.9457
26	11.8577	68	12.7440	110	13.6659	152	14.9529
27	11.8701	69	12.7536	111	13.7066	153	14.9747
28	11.8855	70	12.7601	112	13.7338	154	15.0147
29	11.8949	71	12.7601	113	13.7644	155	15.0220
30	11.9042	72	12.7633	114	13.7951	156	15.0950
31	11.9104	73	12.7891	115	13.8361	157	15.1280
32	12.0373	74	12.7988	116	13.8635	158	15.1500
33	12.0809	75	12.8053	117	13.8875	159	15.1867
34	12.0965	76	12.8117	118	13.9218	160	15.2161
35	12.1153	77	12.8279	119	13.9562	161	15.2493
36	12.1403	78	12.8344	120	13.9872	162	15.2862
37	12.1529	79	12.8441	121	14.0148	163	15.3158
38	12.1498	80	12.8636	122	14.0425	164	15.3417
39	12.1780	81	12.8733	123	14.0667	165	15.3676
40	12.2031	82	12.8830	124	14.0979	166	15.4011
41	12.2157	83	12.8928	125	14.1222	167	15.4345
42	12.2190	84	12.8993	126	14.1604	168	15.4718

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
169	15.5129	209	16.7849	249	18.2861		
170	15.5428	210	16.8330	250	18.3121		
171	15.5578	211	16.8691	251	18.3642		
172	15.5953	212	16.9013	252	18.4294		
173	15.6179	213	16.9335	253	18.4774		
174	15.6518	214	16.9657				
175	15.6932	215	16.9900				
176	15.7159	216	17.0305				
177	15.7386	217	17.1157				
178	15.7575	218	17.1524				
179	15.7955	219	17.1932				
180	15.8106	220	17.2464				
181	15.8563	221	17.3449				
182	15.8944	222	17.3861				
183	15.9249	223	17.4068				
184	15.9517	224	17.4523				
185	15.9862	225	17.4938				
186	16.0054	226	17.5104				
187	16.0323	227	17.5478				
188	16.0553	228	17.5811				
189	16.0900	229	17.6062				
190	16.1595	230	17.6229				
191	16.1866	231	17.6522				
192	16.2254	232	17.6899				
193	16.2565	233	17.7150				
194	16.2954	234	17.7571				
195	16.3149	235	17.7866				
196	16.3501	236	17.8372				
197	16.3696	237	17.8710				
198	16.4284	238	17.9092				
199	16.4834	239	17.9516				
200	16.5070	240	17.9857				
201	16.5623	241	18.0240				
202	16.5781	242	18.0753				
203	16.5900	243	18.1224				
204	16.6256	244	18.1611				
205	16.6574	245	18.1783				
206	16.7011	246	18.2213				
207	16.7211	247	18.2732				
208	16.7490	248	18.2861				

Westbury - Depth vs. Temperature results.

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
1	5.9158	43	10.9958	85	12.2903	127	13.3734
2	6.4240	44	11.0222	86	12.3092	128	13.3868
3	7.2931	45	11.0752	87	12.3281	129	13.3802
4	7.9936	46	11.0929	88	12.3565	130	13.4404
5	8.4932	47	11.1136	89	12.3691	131	13.4706
6	8.7301	48	11.1313	90	12.3818	132	13.5142
7	8.9438	49	11.1668	91	12.4039	133	13.5412
8	9.0649	50	11.2083	92	12.4325	134	13.5581
9	9.1178	51	11.2321	93	12.4610	135	13.5817
10	9.1761	52	11.2529	94	12.4960	136	13.6020
11	9.2880	53	11.2588	95	12.5374	137	13.6223
12	9.3764	54	11.2946	96	12.5534	138	13.6528
13	9.4545	55	11.3185	97	12.6173	139	13.6901
14	9.5085	56	11.3484	98	12.6366	140	13.7105
15	9.4680	57	11.3693	99	12.6366	141	13.7548
16	10.0549	58	11.3933	100	12.6462	142	13.8128
17	10.4636	59	11.4203	101	12.6848	143	13.8231
18	10.4921	60	11.4594	102	12.7009	144	13.8402
19	10.4978	61	11.5197	103	12.7331	145	13.8642
20	10.5321	62	11.5710	104	12.7590	146	13.8916
21	10.5407	63	11.5892	105	12.7784	147	13.9157
22	10.5493	64	11.6408	106	12.8367	148	13.9295
23	10.5579	65	11.6560	107	12.8789	149	13.9777
24	10.5636	66	11.6865	108	12.9082	150	14.0191
25	10.5665	67	11.7230	109	12.9310	151	14.0641
26	10.6096	68	11.7414	110	12.9474	152	14.0815
27	10.6412	69	11.7628	111	12.9572	153	14.1093
28	10.6527	70	11.7903	112	12.9768	154	14.1302
29	10.6787	71	11.8179	113	12.9932	155	14.1615
30	10.7075	72	11.8271	114	13.0161	156	14.1825
31	10.7509	73	11.8456	115	13.0391	157	14.2034
32	10.7654	74	11.8979	116	13.0588	158	14.2279
33	10.7712	75	11.9472	117	13.0818	159	14.2804
34	10.7857	76	11.9874	118	13.1147	160	14.3401
35	10.8031	77	12.0153	119	13.1575	161	14.3823
36	10.8322	78	12.0371	120	13.2071	162	14.4000
37	10.8992	79	12.0526	121	13.2270	163	14.4248
38	10.9138	80	12.0868	122	13.2336	164	14.4425
39	10.9226	81	12.1398	123	13.2668	165	14.4708
40	10.9313	82	12.1679	124	13.2967	166	14.4921
41	10.9431	83	12.1961	125	13.3167	167	14.5240
42	10.9606	84	12.2243	126	13.3600	168	14.5667

Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)	Depth	Temp (Deg C)
169	14.6166	209	15.8872	249	17.2658		
170	14.6381	210	15.9828	250	17.3069		
171	14.6739	211	16.0174	251	17.3441		
172	14.7133	212	16.0367	252	17.3937		
173	14.7492	213	16.0637				
174	14.7924	214	16.0868				
175	14.8032	215	16.1216				
176	14.8430	216	16.1681				
177	14.8683	217	16.2069				
178	14.9009	218	16.2302				
179	14.9408	219	16.2653				
180	14.9808	220	16.3004				
181	15.0027	221	16.2849				
182	15.0319	222	16.3200				
183	15.0538	223	16.3866				
184	15.0758	224	16.4651				
185	15.1160	225	16.4730				
186	15.1491	226	16.4967				
187	15.1895	227	16.5323				
188	15.2264	228	16.5560				
189	15.2559	229	16.5838				
190	15.2929	230	16.6274				
191	15.3373	231	16.6632				
192	15.3707	232	16.7070				
193	15.3931	233	16.7789				
194	15.4415	234	16.7909				
195	15.4788	235	16.7990				
196	15.4976	236	16.8271				
197	15.5388	237	16.8553				
198	15.5800	238	16.8834				
199	15.6064	239	16.9157				
200	15.6516	240	16.9520				
201	15.6893	241	17.0046				
202	15.7083	242	17.0209				
203	15.7310	243	17.0452				
204	15.7614	244	17.0859				
205	15.7918	245	17.1185				
206	15.8222	246	17.1552				
207	15.8603	247	17.1838				
208	15.8795	248	17.2166				