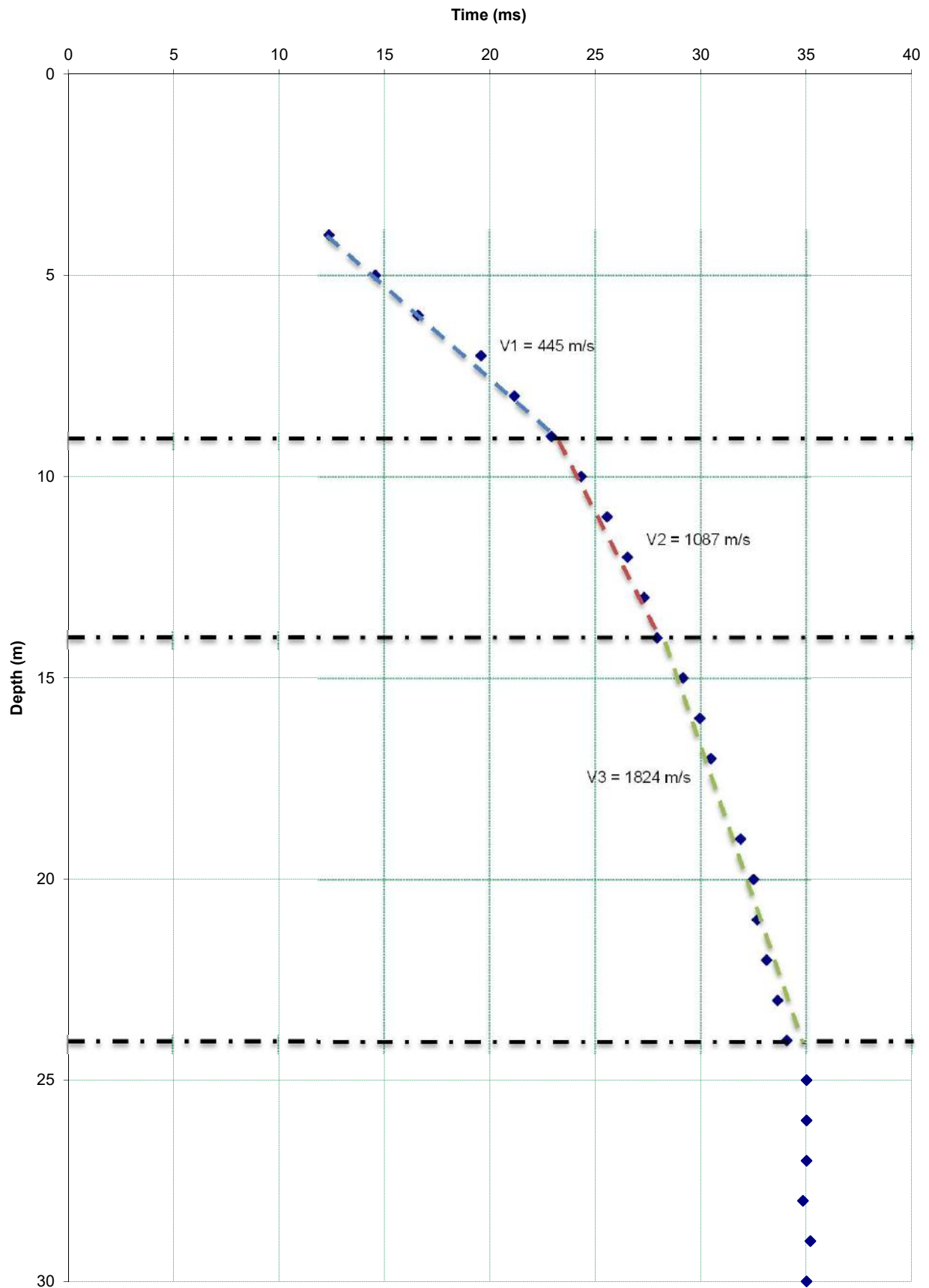
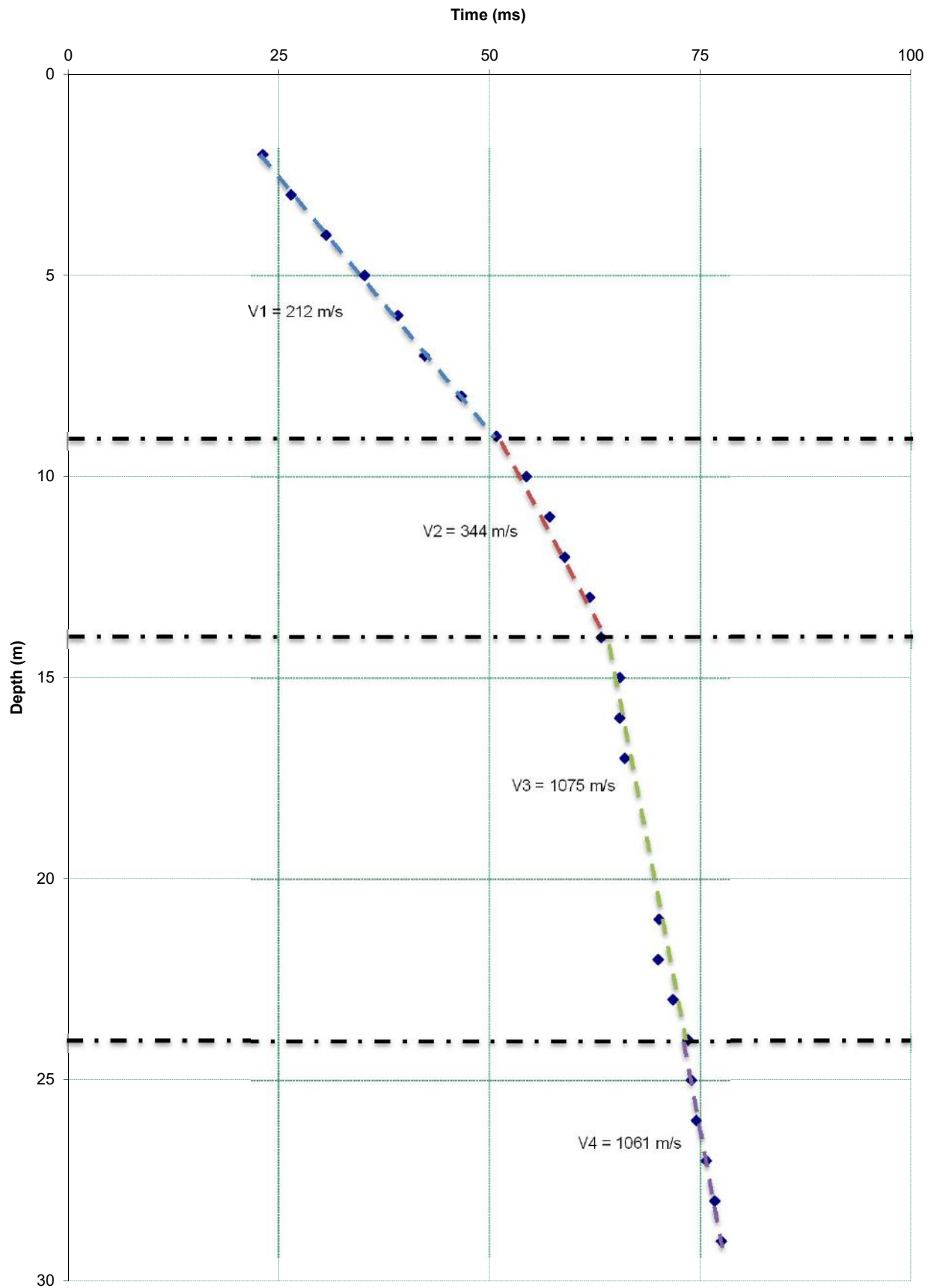


Appendix E: Geophysics Results

TT-BH01 - P Wave T-X Curve



TT-BH01 - S Wave T-X Curve



BH BH01
 OFFSET 1.6
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vp
4	4	12.3786	4.31	348		
5	5	14.57339	5.25	360	429.0303	
6	6	16.59259	6.21	374	475.3893	V1 445.7437
7	7	19.5775	7.18	367	325.2557	
8	8	21.15775	8.16	386	618.8282	
9	9	22.91358	9.14	399	559.6699	
10	10	24.31825	10.13	416	702.0003	
11	11	25.54733	11.12	435	804.3117	V2 1087.341
12	12	26.51303	12.11	457	1025.615	
13	13	27.30316	13.10	480	1255.364	
14	14	27.9177	14.09	505	1615.909	
15	15	29.14678	15.09	518	808.7025	
16	16	29.9369	16.08	537	1258.929	
17	17	30.46365	17.08	561	1889.559	
19	19	31.86831	19.07	598	1418.22	V3 1824.657
20	20	32.48285	20.06	618	1621.78	
21	21	32.65844	21.06	645	5678.034	
22	22	33.09739	22.06	666	2271.842	
23	23	33.62414	23.06	686	1893.653	
24	24	34.0631	24.05	706	2272.863	
25	25	35.02881	25.05	715	1033.31	V4 Bad data
26	26	35.02881	26.05	744		
27	27	35.02881	27.05	772		
28	28	34.85322	28.05	805	-5685.69	
29	29	35.20439	29.04	825	2843.153	
30	30	35.02881	30.04	858	-5686.85	

BH BH01
 OFFSET 3.1
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vs
2	2	23.11111	3.69	160		
3	3	26.46913	4.31	163	186.0494	
4	4	30.61728	5.06	165	180.0083	
5	5	35.16049	5.88	167	181.0161	
6	6	39.11111	6.75	173	220.3429	V1 212.2375
7	7	42.2716	7.66	181	285.4618	
8	8	46.61728	8.58	184	212.6043	
9	9	50.76543	9.52	188	226.4386	
10	10	54.32098	10.47	193	267.3429	
11	11	57.08641	11.43	200	346.7793	
12	12	58.86419	12.39	211	543.0801	V2 343.5855
13	13	61.82716	13.36	216	327.5616	
14	14	63.20987	14.34	227	704.8493	
15	15	65.38271	15.32	234	450.0454	
16	16	65.38271	16.30	249		
17	17	65.97531	17.28	262	1658.437	
21	21	70.05761	21.23	303	966.9159	V3 1075.106
22	22	69.92592	22.22	318	-7515.83	
23	23	71.7037	23.21	324	557.2327	
24	24	73.48148	24.20	329	557.666	
25	25	73.87654	25.19	341	2511.23	
26	26	74.46913	26.18	352	1675.17	
27	27	75.65432	27.18	359	838.03	V4 1060.947
28	28	76.64197	28.17	368	1006.13	
29	29	77.43209	29.17	377	1258.207	

BH01 - Raw Picks

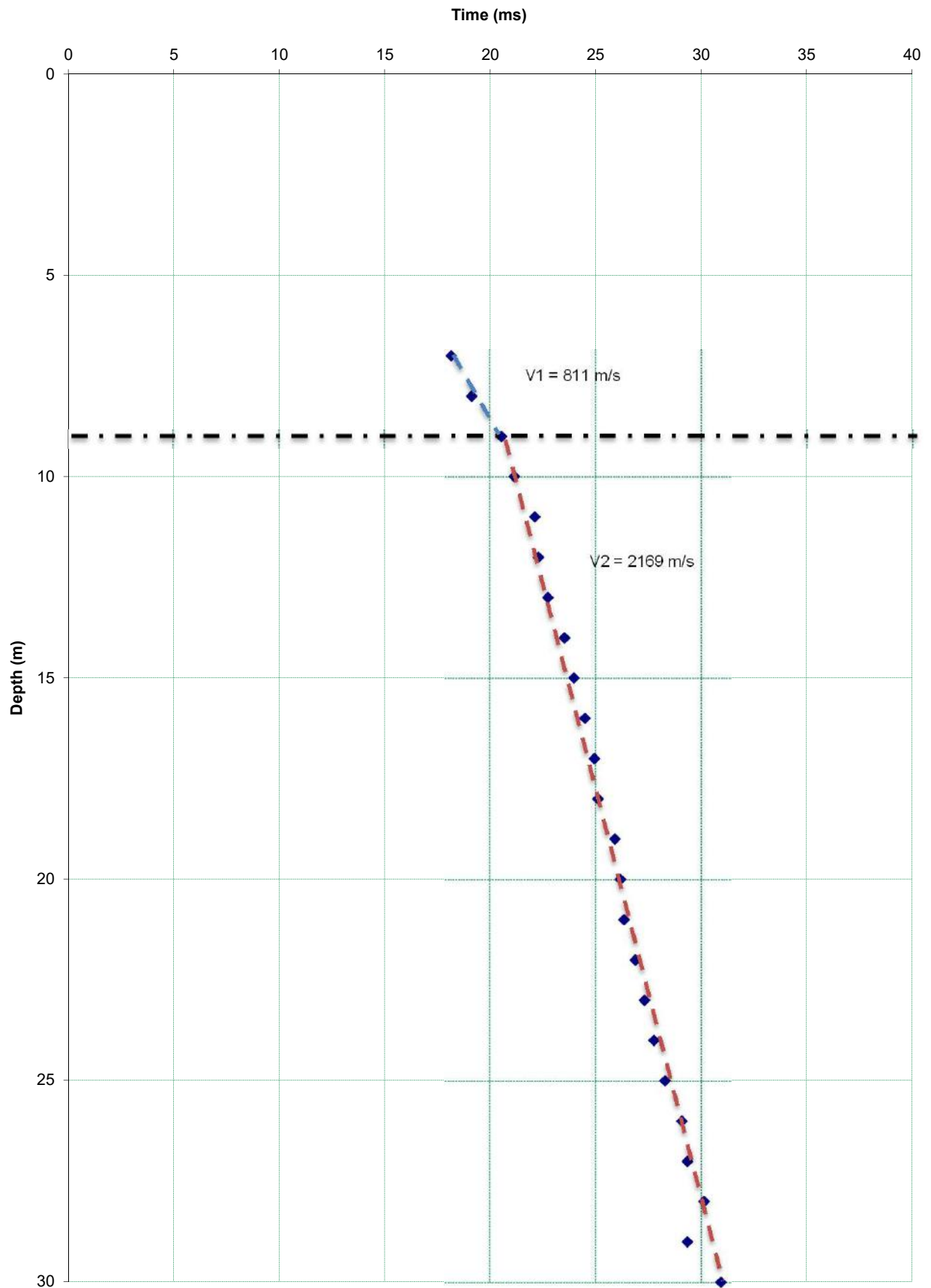
Depth	P arrival (s)	S arrival (s)
1	No Pick	No Pick
2	No Pick	23.11111
3	No Pick	26.46913
4	12.378601	30.61728
5	14.573388	35.16049
6	16.592592	39.11111
7	19.577503	42.2716
8	21.157751	46.61728
9	22.91358	50.76543
10	24.318245	54.32098
11	25.547325	57.08641
12	26.513031	58.86419
13	27.303156	61.82716
14	27.917696	63.20987
15	29.146776	65.38271
16	29.936899	65.38271
17	30.46365	65.97531
18	No Pick	No Pick
19	31.868313	No Pick
20	32.482853	No Pick
21	32.658436	70.05761
22	33.097393	69.92592
23	33.624142	71.7037
24	34.063099	73.48148
25	35.028805	73.87654
26	35.028805	74.46913
27	35.028805	75.65432
28	34.853222	76.64197
29	35.204391	77.43209
30	35.028805	No Pick

layer	From	To	BH01 Layer Velocity		
			Vs	Vp	
1	0	9	212.2375	445.7437	
2	9	14	343.5855	1087.341	
3	14	24	1075.106	1824.657	
4	24	30	1060.947	Bad data	

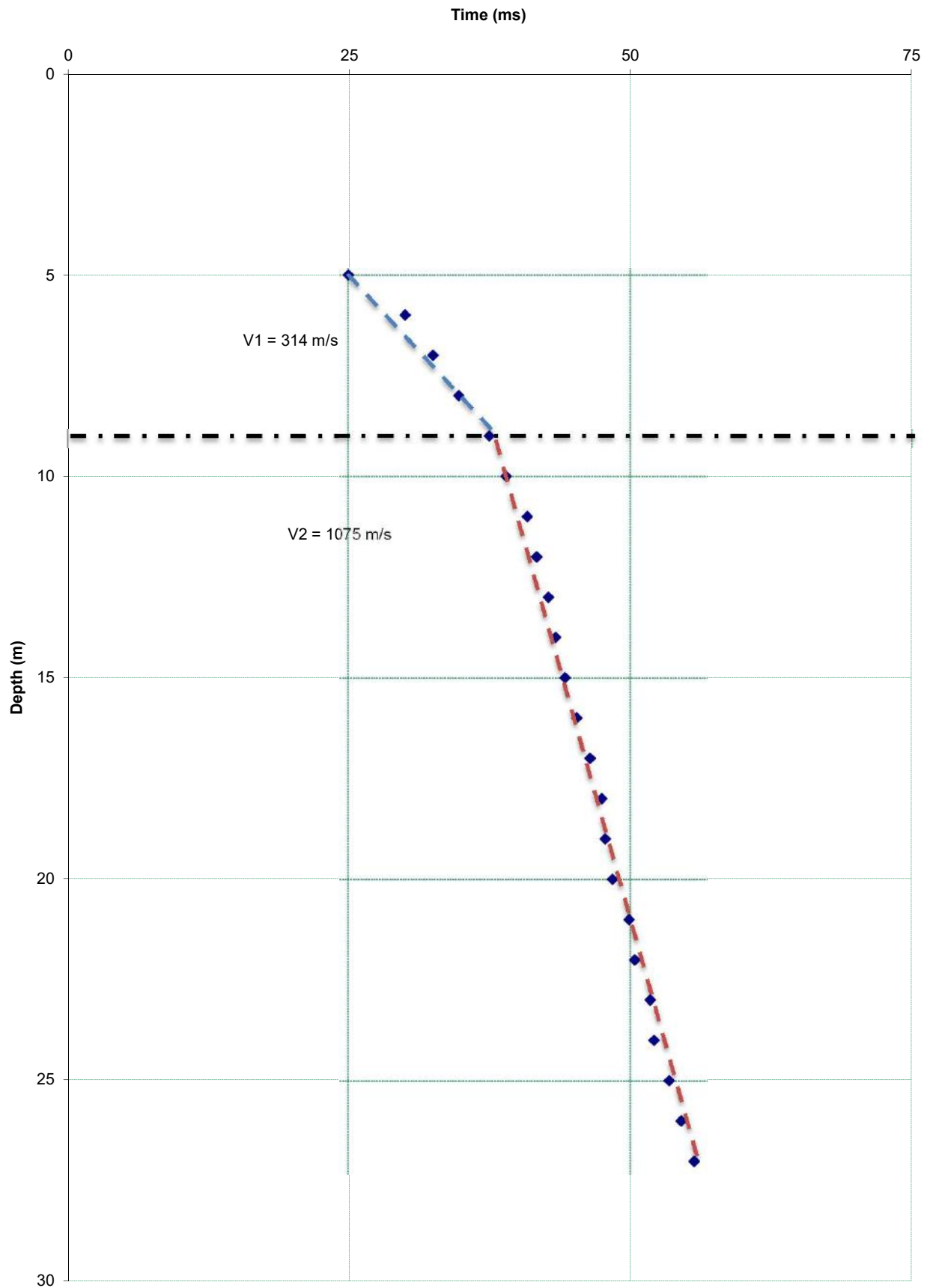
BH01 Interval Velocities

DEPTH	Vp intervals	Vs intervals
1	No Measurement	No Measurement
2	No Measurement	No Measurement
3	186.0493901	No Measurement
4	180.0083048	No Measurement
5	181.016079	429
6	220.3429259	475
7	285.4618164	325
8	212.6042905	619
9	226.4386485	560
10	267.3428699	702
11	346.7792574	804
12	543.0800904	1026
13	327.5615654	1255
14	704.8492712	1616
15	450.0454121	809
16	No Measurement	1259
17	1658.437086	1890
18	No Measurement	1418
19	No Measurement	1622
20	No Measurement	No Measurement
21	966.9158953	5678
22	-7515.826331	2272
23	557.2327252	1894
24	557.6659594	2273
25	2511.230324	1033
26	1675.169519	No Measurement
27	838.0300088	No Measurement
28	1006.12987	-5686
29	1258.207039	2843
30	No Measurement	-5687

TT-BH02 - P Wave T-X Curve



TT-BH02 - S Wave T-X Curve



BH BH02
 OFFSET 1.9
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vp
7	7	18.17284	7.25	399		
8	8	19.13855	8.22	430	1003.675	811.4824
9	9	20.54321	9.20	448	694.7142	
10	10	21.15775	10.18	481	1595.546	
11	11	22.12346	11.16	505	1018.928	
12	12	22.29904	12.15	545	5618.999	
13	13	22.738	13.14	578	2252.218	
14	14	23.52812	14.13	600	1253.258	
15	15	23.96708	15.12	631	2258.796	
16	16	24.49383	16.11	658	1884.312	
17	17	24.93279	17.11	686	2263.159	
18	18	25.10837	18.10	721	5662.012	
19	19	25.89849	19.09	737	1258.999	
20	20	26.16187	20.09	768	3778.974	2169.134
21	21	26.33745	21.09	801	5670.993	
22	22	26.8642	22.08	822	1891.064	
23	23	27.30316	23.08	845	2270.034	
24	24	27.74211	24.08	868	2270.715	
25	25	28.26886	25.07	887	1892.752	
26	26	29.05899	26.07	897	1262.126	
27	27	29.32236	27.07	923	3787.157	
28	28	30.11248	28.06	932	1262.615	
29	29	29.32236	29.06	991	-1262.82	
30	30	30.90261	30.06	973	631.5032	

BH BH02
 OFFSET 1.9
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vs
5	5	24.99131	5.35	214		
6	6	30.02469	6.29	210	187.71	
7	7	32.48285	7.25	223	390.3845	V1 314.2768
8	8	34.76543	8.22	237	424.6313	
9	9	37.48696	9.20	245	358.5628	
10	10	38.97942	10.18	261	656.9893	
11	11	40.85231	11.16	273	525.3833	
12	12	41.67169	12.15	292	1204.082	
13	13	42.72519	13.14	308	938.4214	
14	14	43.36899	14.13	326	1538.099	
15	15	44.18838	15.12	342	1210.064	
16	16	45.24188	16.11	356	942.1576	
17	17	46.41243	17.11	369	848.686	
18	18	47.46593	18.10	381	943.6669	V2 1075.071
19	19	47.75857	19.09	400	3399.274	
20	20	48.40237	20.09	415	1545.952	
21	21	49.86557	21.09	423	680.5152	
22	22	50.39231	22.08	438	1891.096	
23	23	51.73845	23.08	446	740.2289	
24	24	52.08961	24.08	462	2838.438	
25	25	53.43575	25.07	469	740.64	
26	26	54.48925	26.07	478	946.5919	
27	27	55.6598	27.07	486	852.1111	

BH02 - Raw Picks

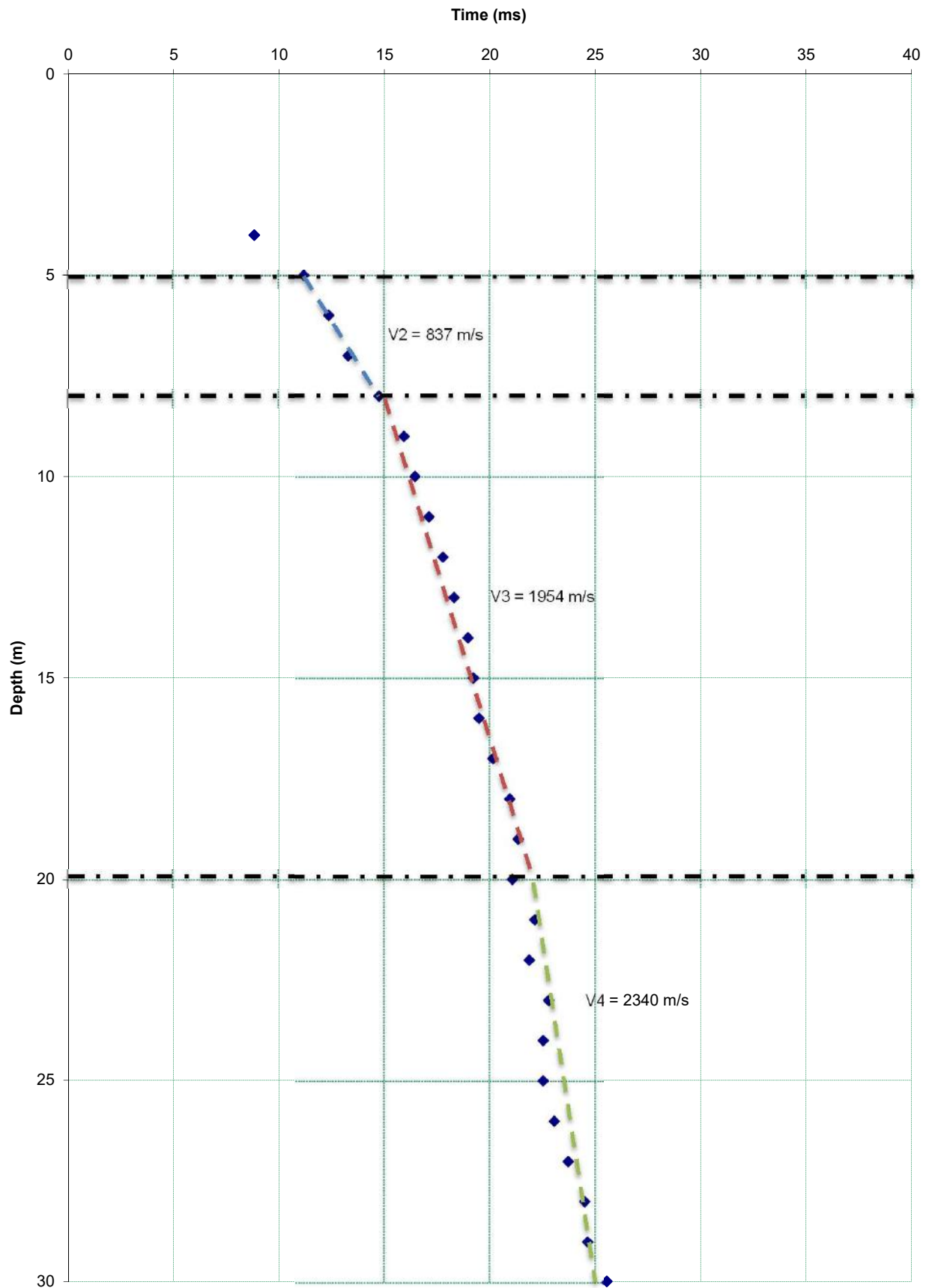
Depth	P arrival (s)	S arrival (s)
1	No Pick	No Pick
2	No Pick	No Pick
3	No Pick	No Pick
4	No Pick	No Pick
5	No Pick	24.99131
6	No Pick	30.02469
7	18.17284	32.48285
8	19.138546	34.76543
9	20.543209	37.48696
10	21.157751	38.97942
11	22.123457	40.85231
12	22.29904	41.67169
13	22.737997	42.72519
14	23.52812	43.36899
15	23.967077	44.18838
16	24.493828	45.24188
17	24.932785	46.41243
18	25.108368	47.46593
19	25.898491	47.75857
20	26.161865	48.40237
21	26.337448	49.86557
22	26.864197	50.39231
23	27.303156	51.73845
24	27.742113	52.08961
25	28.268862	53.43575
26	29.058985	54.48925
27	29.322359	55.6598
28	30.112482	No Pick
29	29.322359	No Pick
30	30.902607	No Pick

layer	From	To	BH02 Layer Velocities		
				Vs	Vp
1	0	9	314.2768	811.4824	
2	9	30	1075.071	2169.134	

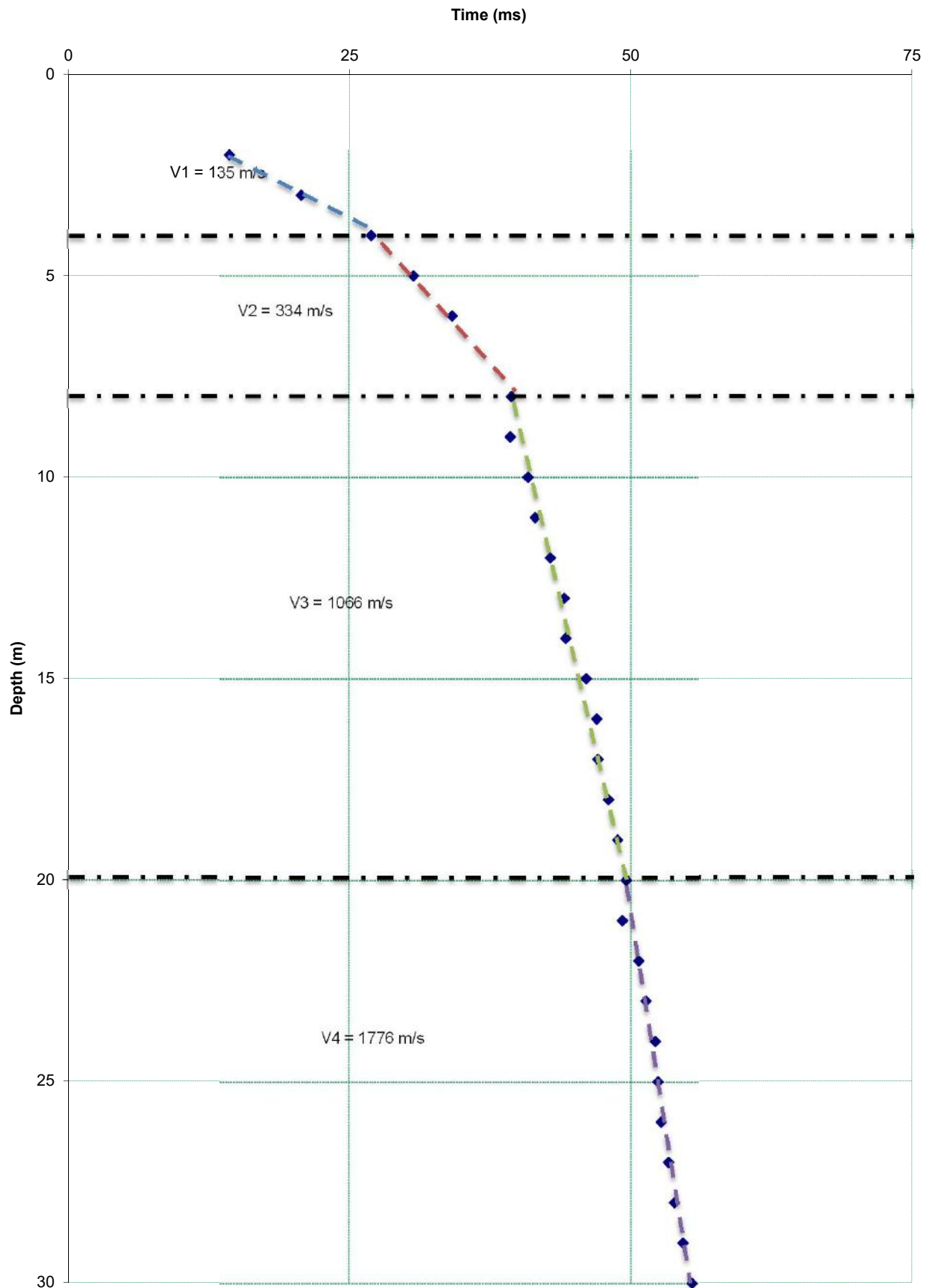
BH02 Interval Velocities

DEPTH	Vp Intervals	Vs Intervals
1	No Measurement	No Measurement
2	No Measurement	No Measurement
3	No Measurement	No Measurement
4	No Measurement	No Measurement
5	No Measurement	No Measurement
6	No Measurement	187.7100364
7	No Measurement	390.3844873
8	1003.67493	424.6312953
9	694.7142457	358.5627924
10	1595.546477	656.9893487
11	1018.928315	525.3833315
12	5618.99873	1204.081933
13	2252.218126	938.4213686
14	1253.257803	1538.098502
15	2258.795699	1210.063808
16	1884.311705	942.1576411
17	2263.158765	848.685987
18	5662.011962	943.6668689
19	1258.998511	3399.274467
20	3778.974413	1545.951549
21	5670.992692	680.5152473
22	1891.063557	1891.095869
23	2270.03386	740.2289459
24	2270.71452	2838.438415
25	1892.751921	740.6400385
26	1262.125766	946.5919283
27	3787.156872	852.1111051
28	1262.61475	No Measurement
29	-1262.821714	No Measurement
30	631.5032351	No Measurement

TT-BH03 - P Wave T-X Curve



TT-BH03 - S Wave T-X Curve



BH BH03
 OFFSET 1.4
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vp
4	4	8.823046	4.24	480	V1	No data
5	5	11.19342	5.19	464	V2	836.7408
6	6	12.3786	6.16	498		
7	7	13.30041	7.14	537		
8	8	14.74897	8.12	551		
9	9	15.93416	9.11	572	V3	1954.277
10	10	16.46091	10.10	613		
11	11	17.11934	11.09	648		
12	12	17.77778	12.08	680		
13	13	18.30453	13.08	714		
14	14	18.96296	14.07	742		
15	15	19.22634	15.07	784		
16	16	19.48971	16.06	824		
17	17	20.14815	17.06	847		
18	18	20.93827	18.05	862		
19	19	21.33333	19.05	893		
20	20	21.06996	20.05	952	V4	2339.757
21	21	22.12346	21.05	951		
22	22	21.86008	22.04	1008		
23	23	22.78189	23.04	1011		
24	24	22.51852	24.04	1068		
25	25	22.51852	25.04	1112		
26	26	23.04527	26.04	1130		
27	27	23.7037	27.04	1141		
28	28	24.49383	28.03	1145		
29	29	24.62552	29.03	1179		
30	30	25.54733	30.03	1176		

BH BH03
 OFFSET 1.8
 GEO OFFSET 0

DEPTH	C_DEPT H	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY		Vs
2	2	14.33928	2.69	188			
3	3	20.71879	3.50	169	126.63131	V1	134.7115
4	4	26.92273	4.39	163	143.09812		
5	5	30.6685	5.31	173	247.69004		
6	6	34.12163	6.26	184	275.12749	V2	333.9454
8	8	39.38912	8.20	208	367.50257		
9	9	39.27206	9.18	234	-8356.841		
10	10	40.85231	10.16	249	621.72031		
11	11	41.49611	11.15	269	1530.8894		
12	12	42.84225	12.13	283	733.91377		
13	13	44.07133	13.12	298	805.29723		
14	14	44.18839	14.12	319	8468.0252	V3	1065.952
15	15	46.00274	15.11	328	546.95599		
16	16	46.93919	16.10	343	1060.7348		
17	17	47.05624	17.10	363	8492.6347		
18	18	47.99268	18.09	377	1062.2618		
19	19	48.81207	19.09	391	1214.6799		
20	20	49.57293	20.08	405	1308.7416		
21	21	49.22176	21.08	428	-2836.744		
22	22	50.68496	22.07	436	681.05338		
23	23	51.32876	23.07	449	1548.3138		
24	24	52.14815	24.07	462	1216.86		
25	25	52.38226	25.06	478	4259.9916	V4	1775.931
26	26	52.6749	26.06	495	3408.7179		
27	27	53.3187	27.06	508	1549.6884		
28	28	53.84545	28.06	521	1894.3859		
29	29	54.60631	29.06	532	1311.6862		
30	30	55.4257	30.05	542	1218.1613		

BH03 Raw Picks

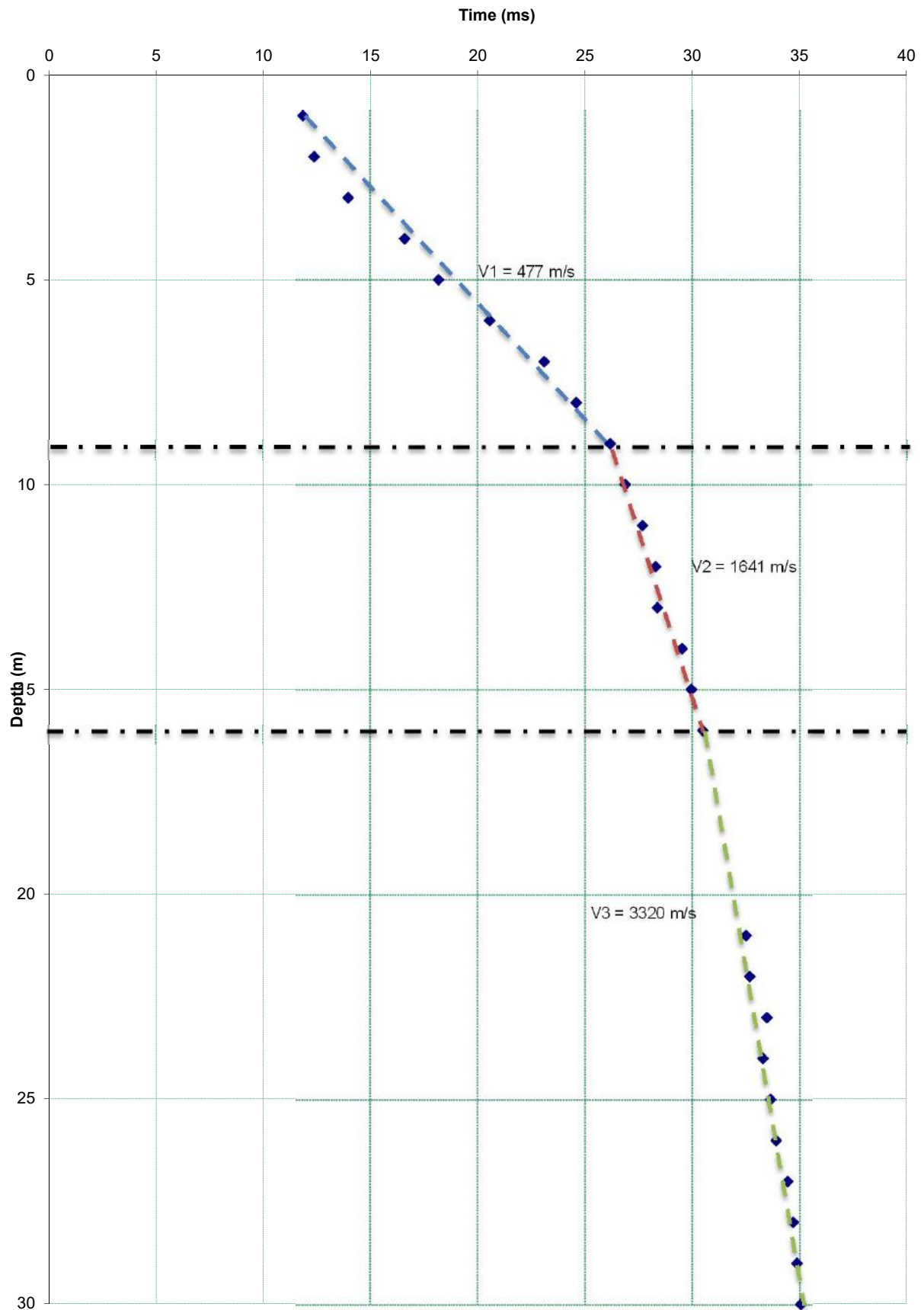
Depth	P arrival (s)	S arrival (s)
1	No Pick	No Pick
2	No Pick	14.339277
3	No Pick	20.718792
4	8.823046	26.922726
5	11.193416	30.668495
6	12.378601	34.121628
7	13.300411	No Pick
8	14.748971	39.389118
9	15.934156	39.27206
10	16.460905	40.85231
11	17.119341	41.496113
12	17.777779	42.842251
13	18.304527	44.071331
14	18.962963	44.188385
15	19.226337	46.002743
16	19.489712	46.939186
17	20.148148	47.05624
18	20.938272	47.992683
19	21.333334	48.812073
20	21.06996	49.572929
21	22.123457	49.221764
22	21.860083	50.684956
23	22.781893	51.328762
24	22.518518	52.148148
25	22.518518	52.382259
26	23.045267	52.674896
27	23.703703	53.318703
28	24.493828	53.845451
29	24.625515	54.606312
30	25.547325	55.425697

layer	From	To	BH03 Layer Velocities	
			Vs	Vp
1	0	4	No Data	134.7115
2	4	8	836.7408	333.9454
3	8	20	1954.277	1065.952
4	20	30	2339.757	1775.931

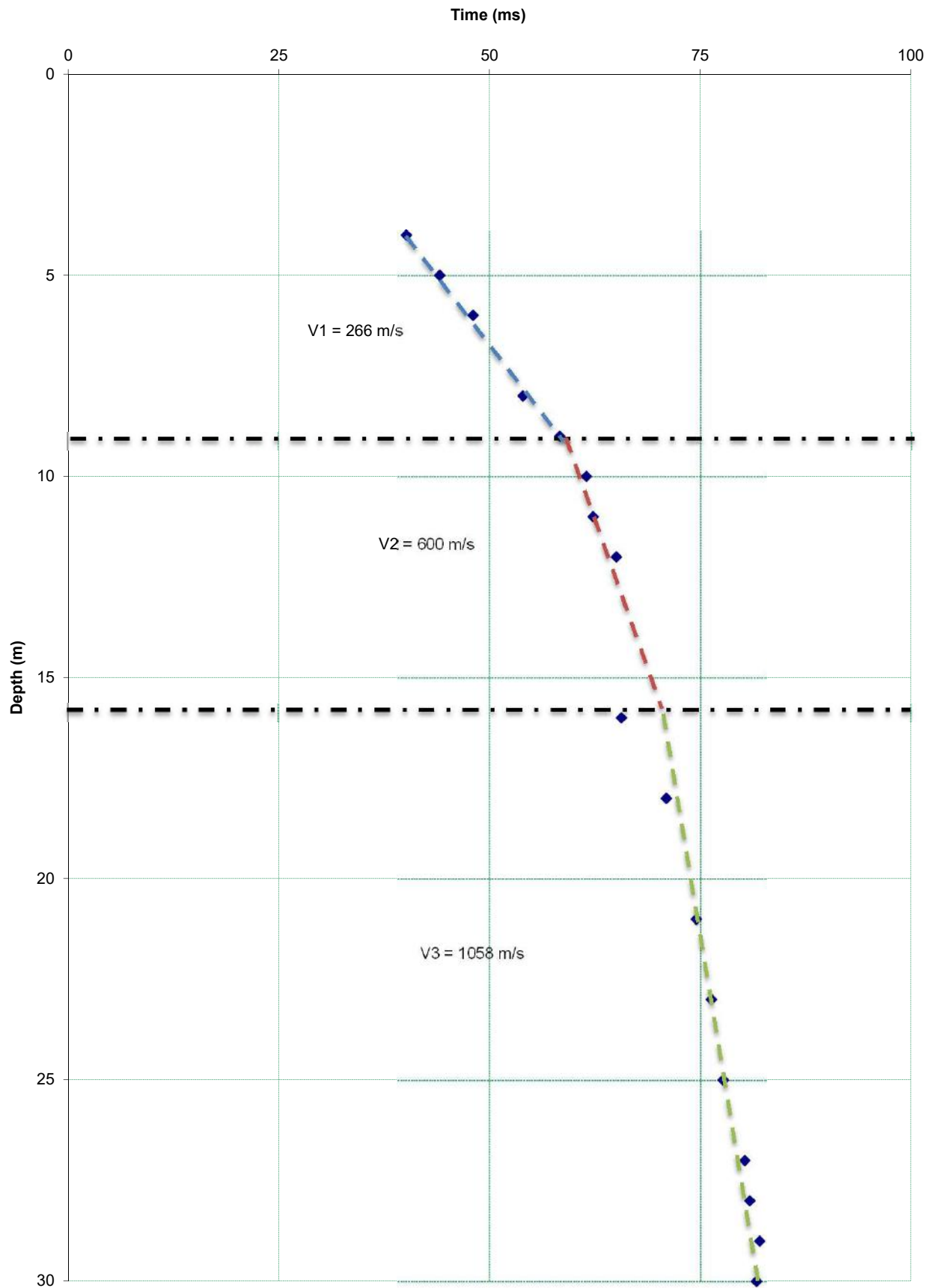
BH03 Interval Velocities

DEPTH	Vp Intervals	Vs Intervals
1	No Measurement	No Measurement
2	No Measurement	No Measurement
3	No Measurement	126.6313078
4	No Measurement	143.0981218
5	402.6282708	247.690037
6	817.4814278	275.1274866
7	1060.368838	No Measurement
8	678.569671	367.5025666
9	832.4960472	-8356.841262
10	1878.098335	621.7203052
11	1505.398507	1530.889415
12	1507.594683	733.9137705
13	1886.626346	805.2972333
14	1510.638189	8468.025165
15	3779.286485	546.9559941
16	3781.458157	1060.734797
17	1513.307957	8492.634741
18	1261.590213	1062.261772
19	2524.026033	1214.679924
20	-3787.127792	1308.741648
21	947.0124814	-2836.743549
22	-3788.853563	681.053379
23	1082.727301	1548.313813
24	-3790.144677	1216.860041
25	No Measurement	4259.991594
26	1895.581597	3408.717886
27	1516.634732	1549.688445
28	1263.985091	1894.385948
29	7584.615678	1311.686207
30	1083.60233	1218.161326

TT-BH04 - P Wave T-X Curve



TT-BH04 - S Wave T-X Curve



BH BH04
 OFFSET 1.5
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vp
1	1	11.85185	1.80	152		
2	2	12.3786	2.50	202	1323.634	
3	3	13.95884	3.35	240	540.4888	
4	4	16.59259	4.27	257	348.5144	
5	5	18.17284	5.22	287	600.0009	V1 476.5183
6	6	20.5432	6.18	301	406.9024	
7	7	23.08916	7.16	310	382.6659	
8	8	24.58161	8.14	331	656.9733	
9	9	26.16186	9.12	349	623.1504	
10	10	26.86419	10.11	376	1406.362	
11	11	27.65432	11.10	401	1252.867	
12	12	28.26886	12.09	428	1613.54	V2 1641.027
13	13	28.35665	13.09	461	11309.55	
14	14	29.49794	14.08	477	870.8352	
15	15	29.93689	15.07	504	2266.057	
16	16	30.46365	16.07	528	1889.561	
21	21	32.48285	21.05	648	2467.98	
22	22	32.65843	22.05	675	5681.591	
23	23	33.44855	23.05	689	1262.826	
24	24	33.27297	24.05	723	-5683.84	
25	25	33.62414	25.04	745	2842.299	V3 3320.018
26	26	33.88751	26.04	769	3790.385	
27	27	34.41426	27.04	786	1895.399	
28	28	34.67763	28.04	809	3791.302	
29	29	34.85322	29.04	833	5687.211	
30	30	35.0288	30.04	858	5688.059	

BH BH04
 OFFSET 2.2
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vs
4	4	40.09876	4.57	114		
5	5	44.04938	5.46	124	227.1834	
6	6	48	6.39	133	234.9044	V1 265.9581
8	8	53.92592	8.30	154	321.7001	
9	9	58.2716	9.26	159	222.7501	
10	10	61.43209	10.24	167	308.2284	
11	11	62.22222	11.22	180	1238.66	V2 1083.205
12	12	64.98765	12.20	188	355.1553	
16	16	65.58024	16.15	246	6666.568	
18	18	70.91358	18.13	256	371.8878	
21	21	74.46913	21.11	284	838.4012	
23	23	76.24691	23.10	303	1119.404	
25	25	77.62963	25.10	323	1440.375	V3 1057.912
27	27	80.19753	27.09	338	776.0692	
28	28	80.79012	28.09	348	1682.131	
29	29	81.97531	29.08	355	841.2431	
30	30	81.58024	30.08	369	-2524.19	

BH04 Raw Picks

Depth	P arrival (s)	S arrival (s)
1	11.85185	No Pick
2	12.3786	No Pick
3	13.95884	No Pick
4	16.59259	40.09876
5	18.17284	44.04938
6	20.5432	48
7	23.08916	No Pick
8	24.58161	53.92592
9	26.16186	58.2716
10	26.86419	61.43209
11	27.65432	62.22222
12	28.26886	64.98765
13	28.35665	No Pick
14	29.49794	No Pick
15	29.93689	No Pick
16	30.46365	65.58024
17	No Pick	No Pick
18	No Pick	70.91358
19	No Pick	No Pick
20	No Pick	No Pick
21	32.48285	74.46913
22	32.65843	No Pick
23	33.44855	76.24691
24	33.27297	No Pick
25	33.62414	77.62963
26	33.88751	No Pick
27	34.41426	80.19753
28	34.67763	80.79012
29	34.85322	81.97531
30	35.0288	81.58024

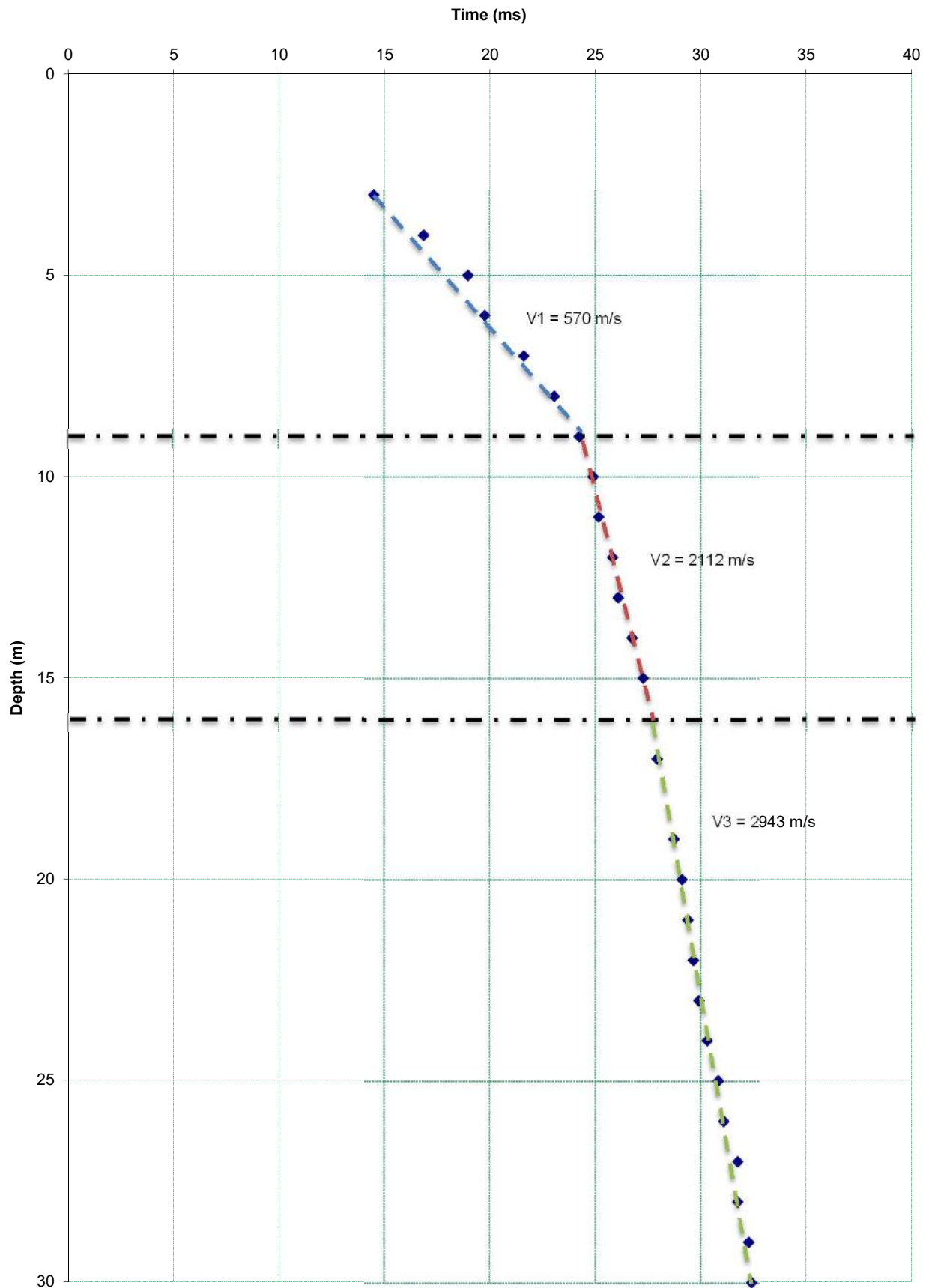
BH04 Layer Picks

layer	From	To	Vs	Vp
1	0	9	265.9581	476.5183
2	9	16	1083.205	1641.027
3	16	30	1057.912	3320.018

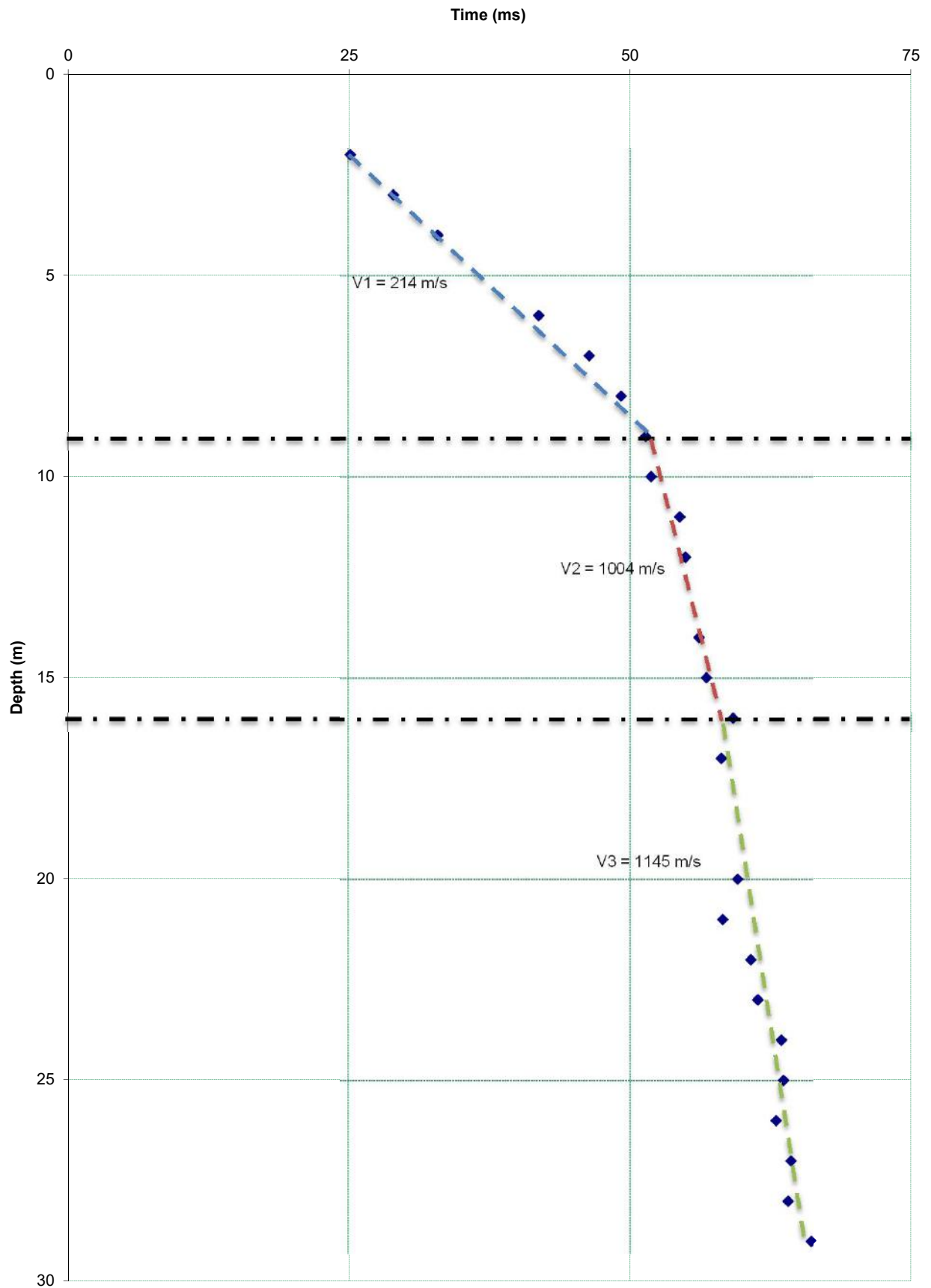
BH04 Interval Velocities

DEPTH	Vp Intervals	Vs Intervals
1	No Measurement	No Measurement
2	1323.63429	No Measurement
3	540.4887652	No Measurement
4	348.51444	No Measurement
5	600.0008744	227.1833862
6	406.9024047	234.9043973
7	382.6659072	No Measurement
8	656.9732764	321.700138
9	623.1504492	222.7500535
10	1406.362269	308.2283859
11	1252.86655	1238.659893
12	1613.540155	355.1552815
13	11309.55355	1661.924398
14	870.8352058	No Measurement
15	2266.056707	No Measurement
16	1889.561182	No Measurement
17	No Measurement	No Measurement
18	No Measurement	927.9562692
19	No Measurement	No Measurement
20	No Measurement	No Measurement
21	2467.979691	838.40125
22	5681.591296	1119.404081
23	1262.825991	1440.375129
24	-5683.837394	No Measurement
25	2842.299342	No Measurement
26	3790.385061	No Measurement
27	1895.398728	776.0691756
28	3791.302045	1682.131384
29	5687.21115	841.2431485
30	5688.059006	-2524.185455

TT-BH06 - P Wave T-X Curve



TT-BH06 - S Wave T-X Curve



BH BH06
 OFFSET 1.5
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vp
3	3	14.4856	3.35	232		
4	4	16.85597	4.27	253	387.2391	
5	5	18.96296	5.22	275	450.0015	V1 569.8108
6	6	19.75309	6.18	313	1220.703	
7	7	21.59671	7.16	331	528.4446	
8	8	23.04527	8.14	353	676.8794	
9	9	24.23045	9.12	377	830.8683	
10	10	24.88889	10.11	406	1500.116	
11	11	25.15226	11.10	441	3758.623	V2 2112.07
12	12	25.8107	12.09	469	1505.972	
13	13	26.07407	13.09	502	3769.78	
14	14	26.73251	14.08	527	1509.449	
15	15	27.25926	15.07	553	1888.345	
17	17	27.9177	17.07	611	3024.189	
19	19	28.70782	19.06	664	2522.481	
20	20	29.10288	20.06	689	2523.794	
21	21	29.36626	21.05	717	3786.738	V3 2942.679
22	22	29.62963	22.05	744	3787.67	
23	23	29.893	23.05	771	3788.468	
24	24	30.28807	24.05	794	2526.105	
25	25	30.81482	25.04	813	1894.881	
26	26	31.07819	26.04	838	3790.327	
27	27	31.73663	27.04	852	1516.322	
28	28	31.73663	28.04	884		
29	29	32.26337	29.04	900	1895.816	
30	30	32.39506	30.04	927	7583.963	

BH BH06
 OFFSET 2.3
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vs
2	2	25.15226	3.05	121		
3	3	28.97119	3.78	130	191.7452	
4	4	32.92181	4.61	140	211.0801	
6	6	41.87654	6.43	153	202.3088	V1 213.7469
7	7	46.3539	7.37	159	210.4913	
8	8	49.18518	8.32	169	337.6164	
9	9	51.35802	9.29	181	444.2019	
10	10	51.85185	10.26	198	1967.986	
11	11	54.38682	11.24	207	385.3264	V2 1003.521
12	12	54.91358	12.22	223	1861.467	
14	14	56.09876	14.19	253	1661.555	
15	15	56.7572	15.18	267	1499.967	
16	16	59.12757	16.16	273	417.3012	
17	17	58.07407	17.15	295	-940.119	V3 1145.203
20	20	59.52263	20.13	338	2055.098	
21	21	58.20576	21.13	363	-754.639	
22	22	60.70781	22.12	364	397.4036	
23	23	61.33333	23.11	377	1590.378	
24	24	63.4074	24.11	380	479.85	
25	25	63.60493	25.11	395	5040.351	
26	26	62.9465	26.10	415	-1512.62	
27	27	64.26337	27.10	422	756.5313	
28	28	64	28.09	439	-3783.72	
29	29	66.07407	29.09	440	480.5809	
30	30	66.07407	30.09	455		

BH06 Raw Picks

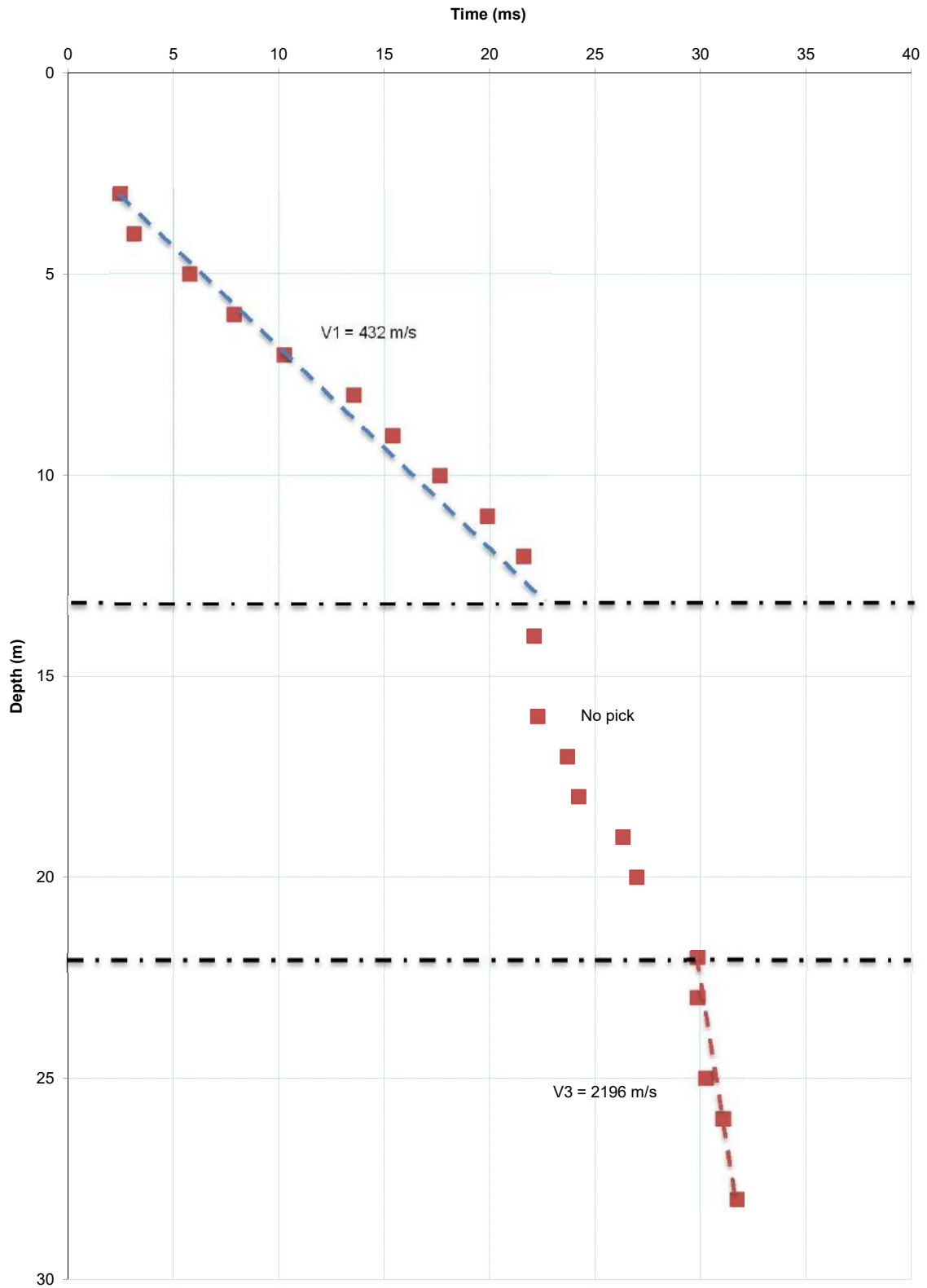
Depth	P arrival (s)	S arrival (s)
1	No Pick	No Pick
2	No Pick	25.15226
3	14.485597	28.97119
4	16.855967	32.92181
5	18.962963	No Pick
6	19.753086	41.87654
7	21.596708	46.3539
8	23.045267	49.18518
9	24.230453	51.35802
10	24.888889	51.85185
11	25.152264	54.38682
12	25.810699	54.91358
13	26.074074	No Pick
14	26.73251	56.09876
15	27.25926	56.7572
16	No Pick	59.12757
17	27.917696	58.07407
18	No Pick	No Pick
19	28.707819	No Pick
20	29.10288	59.52263
21	29.366255	58.20576
22	29.629629	60.70781
23	29.893003	61.33333
24	30.288065	63.4074
25	30.814816	63.60493
26	31.07819	62.9465
27	31.736626	64.26337
28	31.736626	64
29	32.263374	66.07407
30	32.395061	66.07407

Layer	From	To	BH06 Layer Velocities		
				Vs	Vp
1	0	9	213.7469	569.8108	
2	9	16	1003.521	2112.07	
3	16	30	1145.203	2942.679	

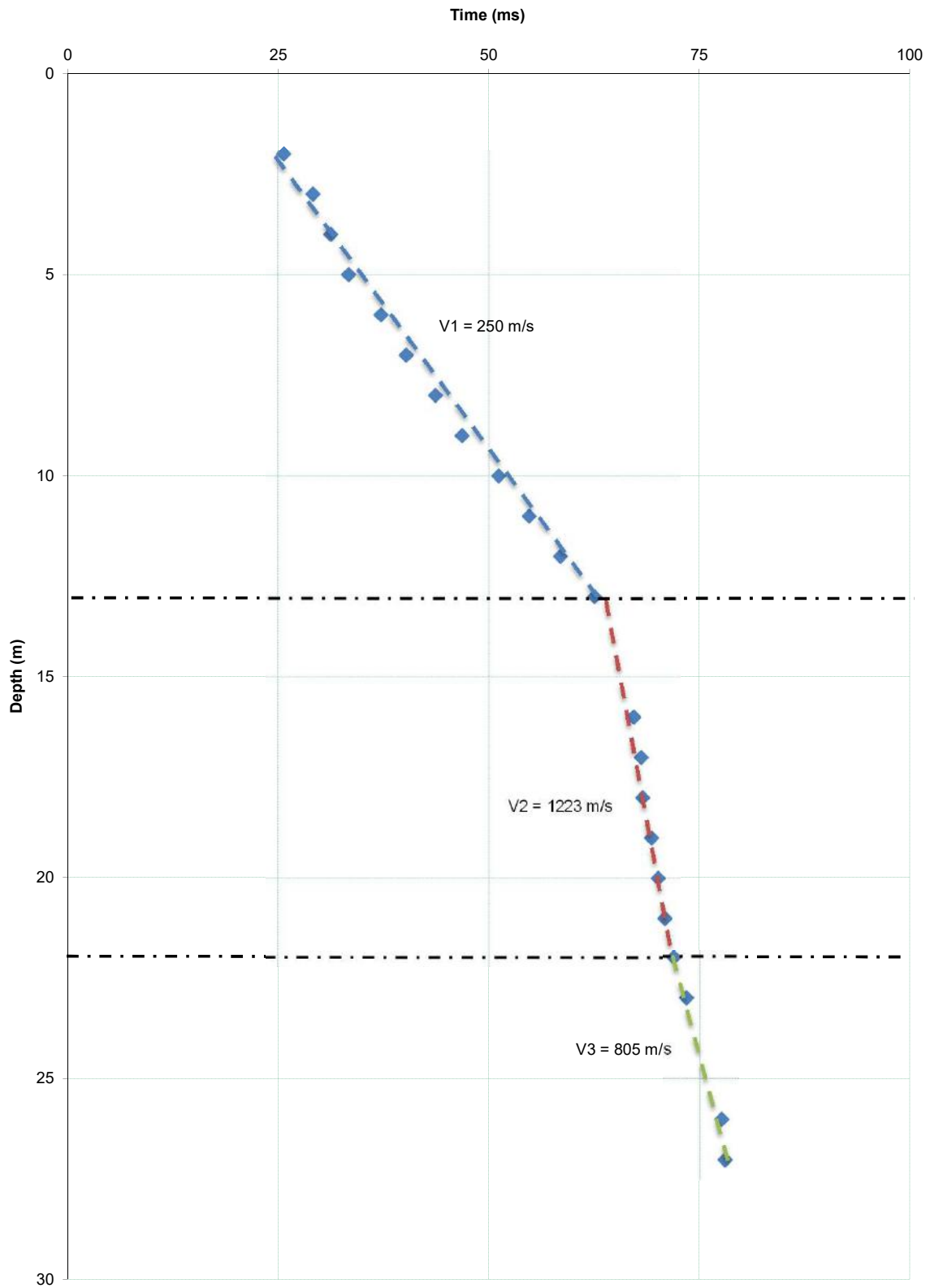
BH06 Interval Velocities

DEPTH	Vp Intervals	Vs Intervals
1	No Measurement	No Measurement
2	No Measurement	No Measurement
3	No Measurement	191.7452018
4	387.2390835	211.0800745
5	450.0015101	No Measurement
6	1220.702579	202.3088058
7	528.4446016	210.4912889
8	676.8794135	337.6164494
9	830.8683172	444.2018648
10	1500.116052	1967.985889
11	3758.623436	385.3263758
12	1505.972445	1861.466971
13	3769.779614	No Measurement
14	1509.448924	1661.555206
15	1888.344739	1499.966875
16	3024.188735	417.3012278
17	No Measurement	-940.1191101
18	2522.481166	No Measurement
19	2523.793965	No Measurement
20	3786.738116	2055.098118
21	3787.670005	-754.6388779
22	3788.468383	397.4035799
23	2526.105193	1590.378223
24	1894.880617	479.8500152
25	3790.327494	5040.351441
26	1516.322436	-1512.621619
27	No Measurement	756.5312942
28	1895.816227	-3783.724742
29	7583.963491	480.5809096
30	No Measurement	No Measurement

BH8 - P Wave T-X Curve



TT - BH8 - S Wave T-X Curve



BH BH08
 OFFSET 1.1
 GEO OFFSET 0

First Arrival

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	LAYER	Vp
3		2.502058	3.20		1277		
4		3.160494	4.15		1313	1448	
5		5.794239	5.12		884	369	
6		7.901235	6.10		772	465	
7		10.2716	7.09		690	416	
8		13.56378	8.08		595	301	V1 432.4038
9		15.4074	9.07		588	538	
10		17.64609	10.06		570	444	
11		19.88477	11.05		556	444	
12		21.5967	12.05		558	581	
14		22.12345	14.04		635	3783	
16		22.29999	16.04		719	11298	
17		23.7037	17.04		719	711	
18		24.23045	18.03		744	1895	No Pick
19		26.33744	19.03		723	474	
20		26.99588	20.03		742	1516	
22		29.893	22.03		737	689	
23		29.893	23.03		770		
25		30.28806	25.02		826	5057	
26		31.07819	26.02		837	1264	
28		31.73662	28.02		883	3035	V3 2196.294
29		32.39506	29.02		896	1518	
30		32.92181	30.02		912	1897	

Notes: No Vp velocity between 14 and 22 m due to inconsistency with Vs. See report for more details

BH BH08
 OFFSET 4.2
 GEO OFFSET 0

DEPTH	C_DEPTH	TIME	DIRECT DISTANCE	AVERAGE VELOCITY	INT VELOCITY	Vs	
2		25.67901	4.65		181		
3		29.14678	5.16		177		
4		31.25377	5.80		186		
5		33.38272	6.53		196		
6		37.2236	7.32		197		
7		40.2085	8.16		203		
8		43.65432	9.04		207	V1	250.2134
9		46.81482	9.93		212		
10		51.16049	10.85		212		
11		54.7819	11.77		215		
12		58.46914	12.71		217		
13		62.50755	13.66		219		
16		67.16049	16.54		246	V2	
17		68.03841	17.51		257		
18		68.21399	18.48		271		1223.092
19		69.26749	19.46		281		
20		70.05761	20.44		292		
21		70.84774	21.42		302		
22		71.98903	22.40		311		
23		73.48148	23.38		318		804.5275
26		77.62963	26.34		339	V3	
27		78.02469	27.32		350		

BH08 - Raw Picks

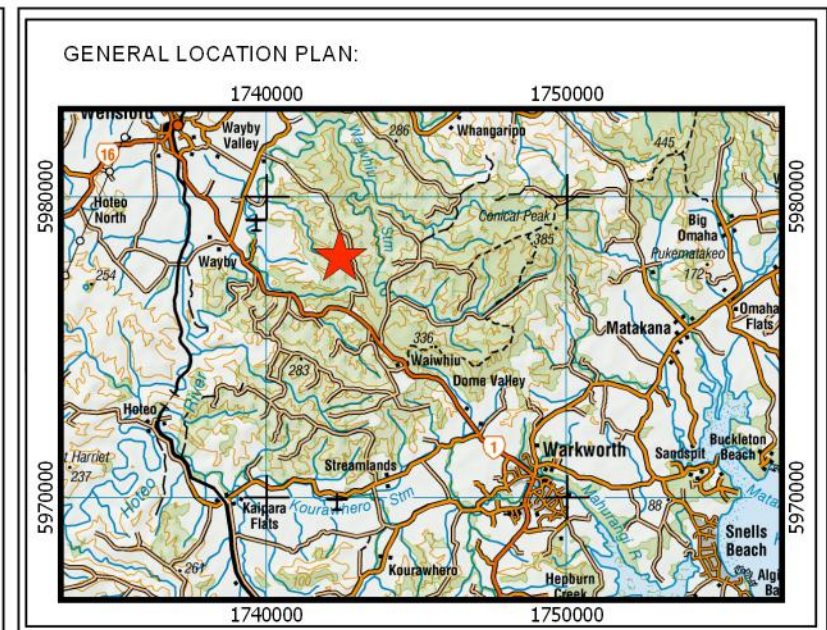
Depth	P arrival (s)	S arrival (s)
1	No Measure	No Measurement
2	No Measure	25.679012
3	2.502058	29.146776
4	3.160494	31.253773
5	5.794239	33.382717
6	7.901235	37.223595
7	10.2716	40.208504
8	13.56378	43.65432
9	15.4074	46.814816
10	17.64609	51.160492
11	19.88477	54.781895
12	21.5967	58.469135
13	No Measure	62.507545
14	22.12345	No Measurement
15	No Measure	No Measurement
16	22.29999	67.160492
17	23.7037	68.038406
18	24.23045	68.213989
19	26.33744	69.267487
20	26.99588	70.05761
21	No Measure	70.84774
22	29.893	71.989029
23	29.893	73.481483
24	No Measure	No Measurement
25	30.28806	No Measurement
26	31.07819	77.629631
27	No Measure	78.024689
28	31.73662	No Measurement
29	32.39506	No Measurement
30	32.92181	No Measurement

BH08 - Layer Velocities

Layer	From	To	Vs	Vp
1	0	13	250	432
2	13	22	1223	No Pick
3	22	30	800	2196

BH08 - Interval Velocities

DEPTH	Vp Intervals	Vs Intervals
1	No Measurement	No Measurement
2	No Measurement	No Measurement
3	No Measurement	146.9286319
4	1447.649644	303.0876835
5	368.7056233	342.8606327
6	465.3211043	206.7241611
7	415.9281356	281.2143631
8	300.5210523	253.1049092
9	537.9102748	283.5889101
10	443.7171079	210.4230219
11	444.25514	256.3512907
12	581.4770558	254.7225666
13	No Measurement	234.7094589
14	3783.268336	No Measurement
15	No Measurement	No Measurement
16	11298.40336	619.0576637
17	710.8185722	1103.83446
18	1894.69146	5537.932767
19	473.7733349	925.6476969
20	1516.329036	1237.235415
21	No Measurement	1239.846153
22	689.3934928	859.9393417
23	No Measurement	658.6550391
24	No Measurement	No Measurement
25	5057.203906	No Measurement
26	1264.438167	713
27	No Measurement	2500
28	3035.007495	No Measurement
29	1517.610956	No Measurement
30	1897.114993	No Measurement



Legend

- Bore Holes
- MASW Lines
- Chainage Intervals (m)

GENERAL LOCATION PLAN SCALE:

SCALE:

PROJECTION: NZTM

ISSUE	NOTE	APPROVED	DATE
001	Initial issue	LM	21/06/18

CLIENT: **TONKIN & TAYLOR**

PROJECT: **DOMES PROJECT**

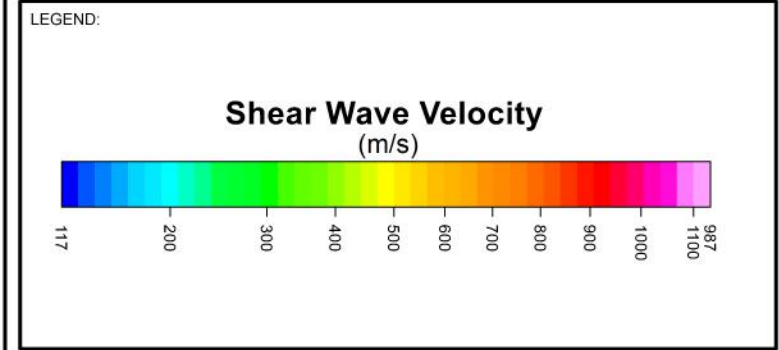
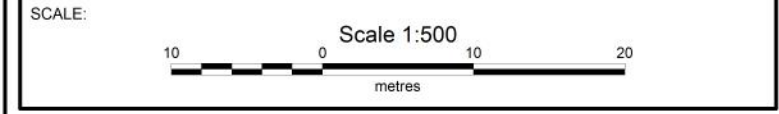
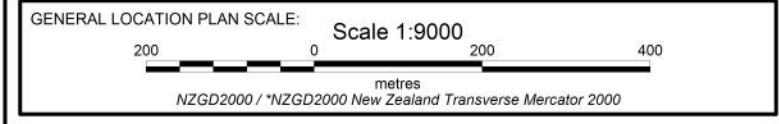
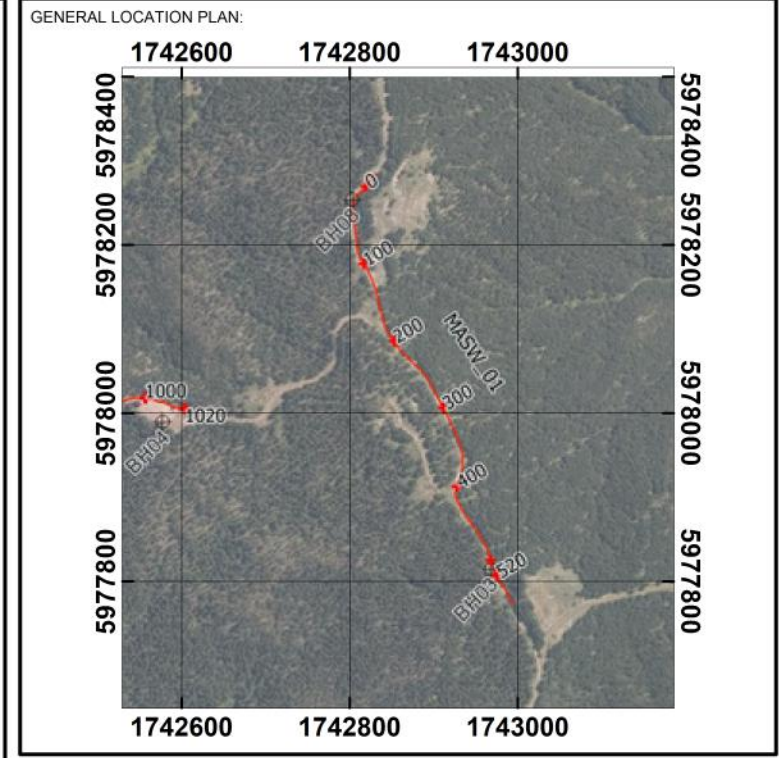
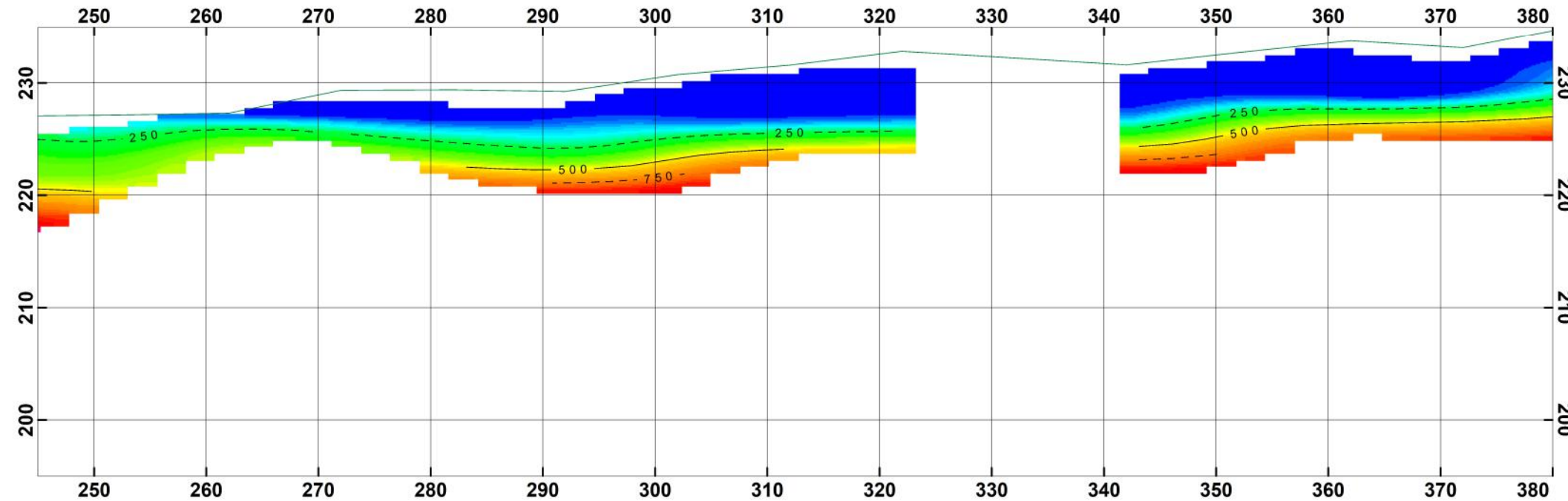
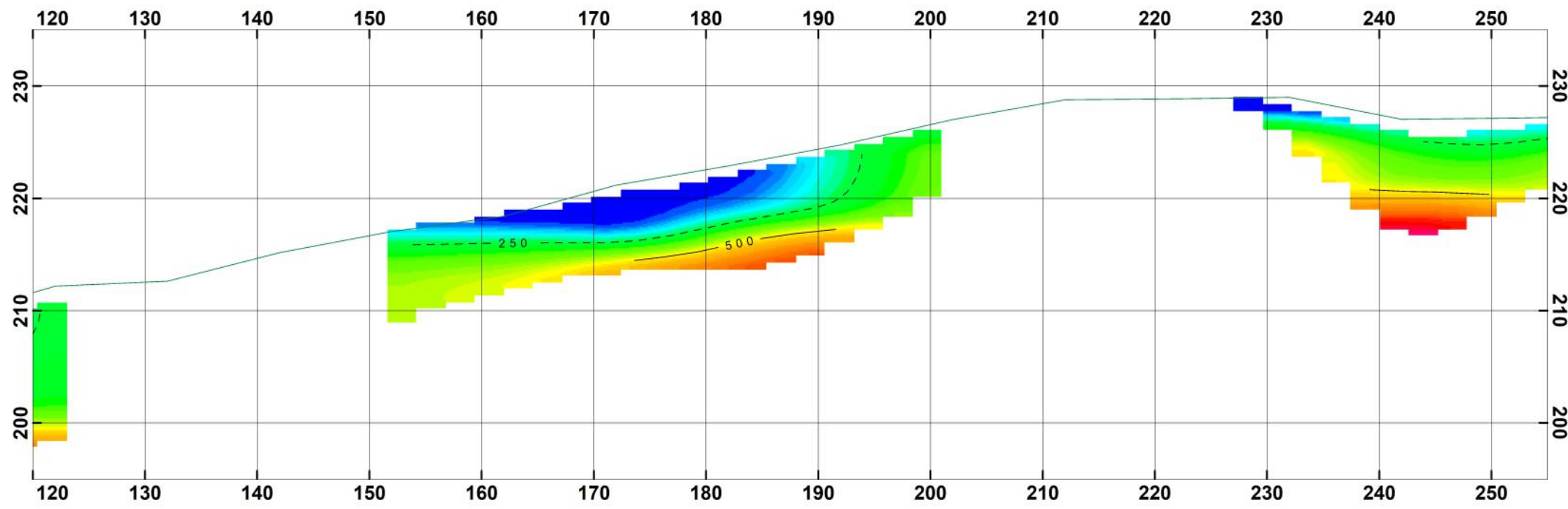
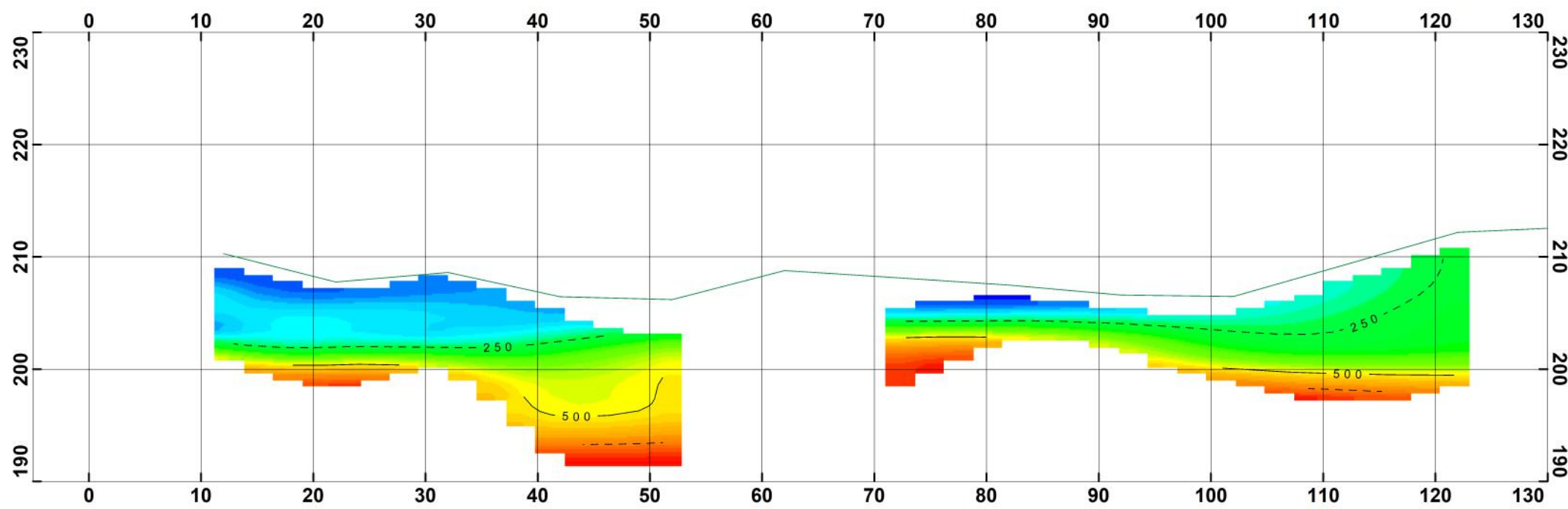
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PROJECT NUMBER: **176304058**

FILE NAME: 181500905_DomeProject_Geophysics_T&T.qgs

PAGE SIZE: 297 x 420

FIGURE NUMBER: **01**



NOTES:
 1. Imagery data sourced from LINZ data service (June, 2018)
 2. x coordinates refer to chainage (m)

CLIENT:
TONKIN & TAYLOR

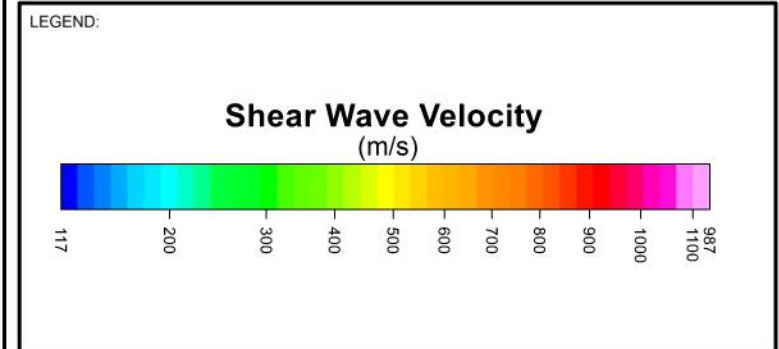
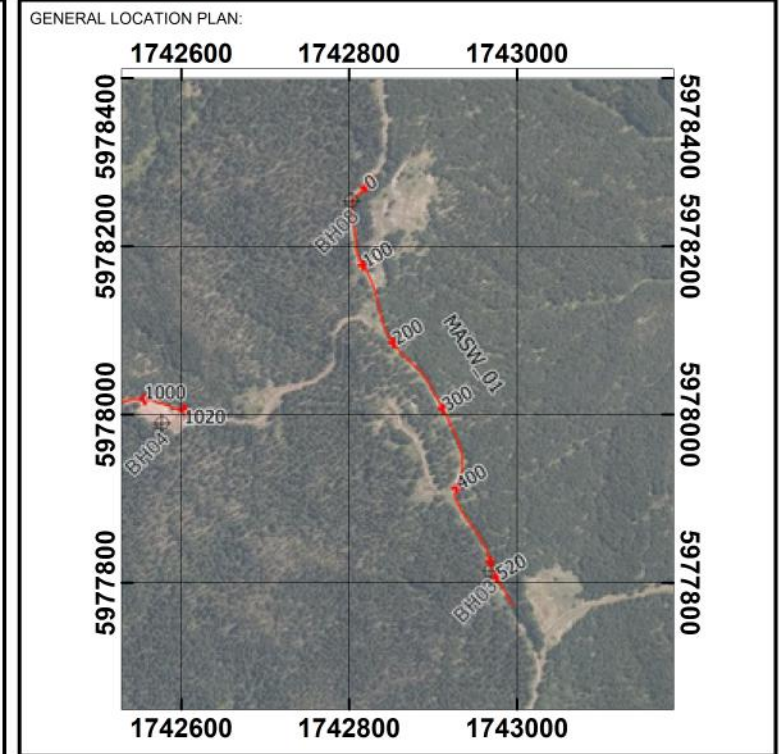
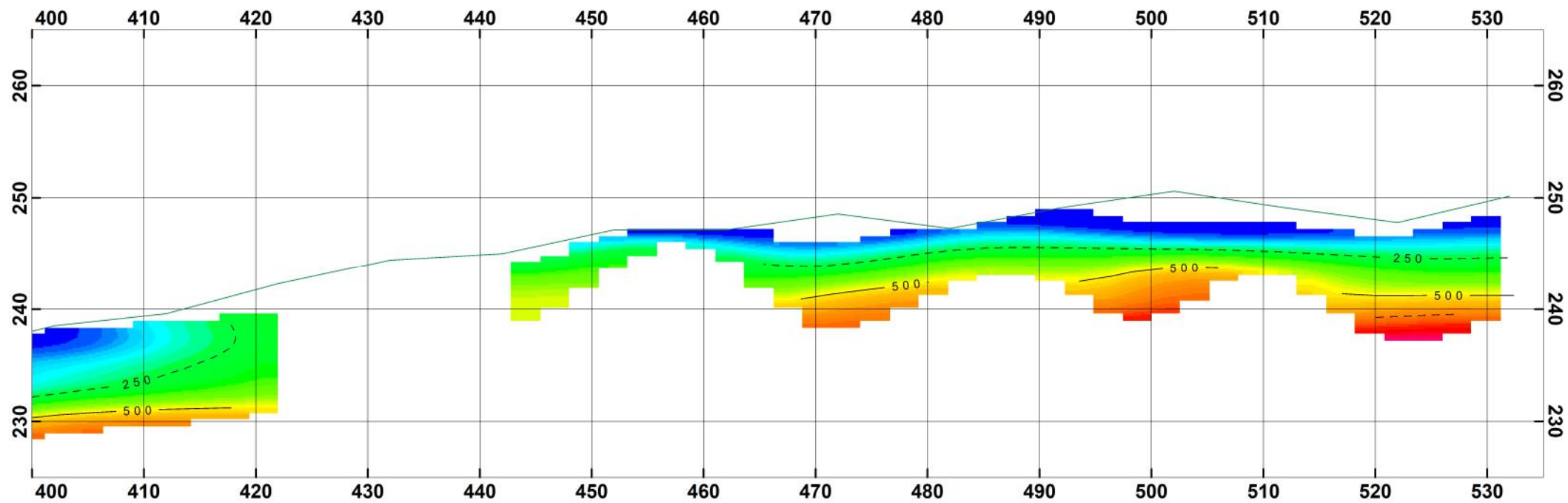
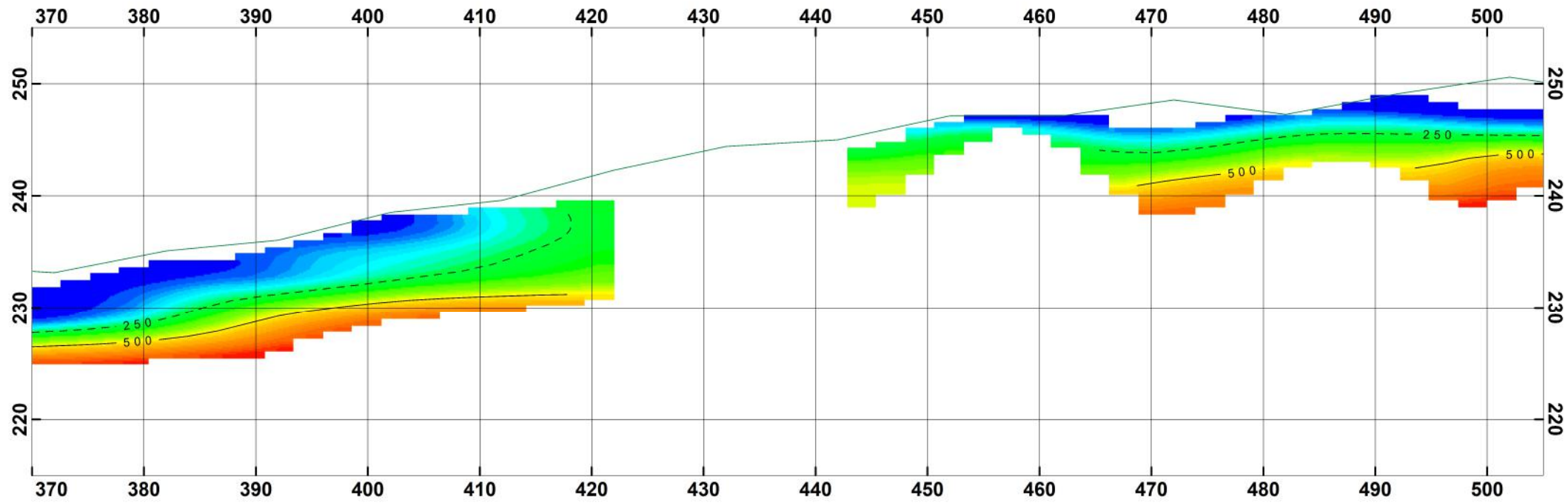
PROJECT:
**DOMES PROJECT
 GEOPHYSICAL INVESTIGATION**

TITLE:
**MASW LINE 1
 0 - 375 m**

INTERP. BY: AM	DATE: 27/06/2018	DRAWN BY: OG	DATE: 28/06/2018
CHECKED BY: OG	DATE: 28/06/2018	APPROVED BY: LM	DATE: 28/06/2018

CONTRACT No.: 181500905 FIGURE: 01
 FILE NAME: 181500905.pdf
 PLOTTED DRAWING SIZE: A3 (420 x 297)

RDCL
 PO Box 28057, 308 Queen St East
 Hastings, Hawke's Bay, New Zealand
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 Email: info@rdcl.co.nz www.rdcl.co.nz



NOTES:
 1. Imagery data sourced from LINZ data service (June, 2018)
 2. x coordinates refer to chainage (m)

CLIENT:
TONKIN & TAYLOR

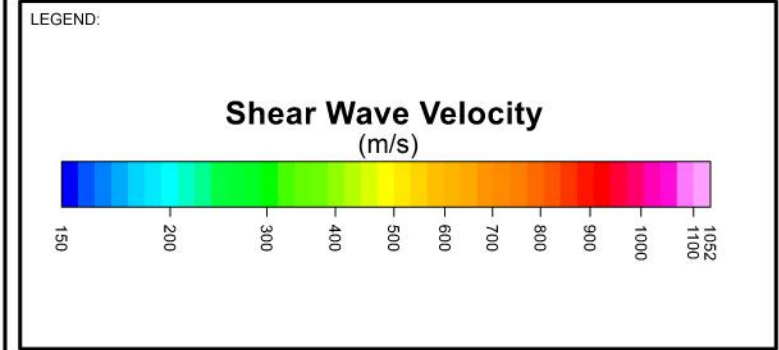
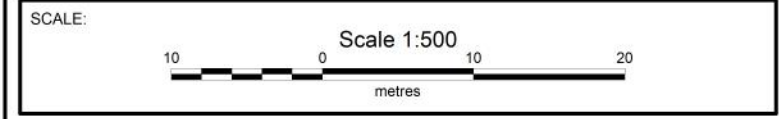
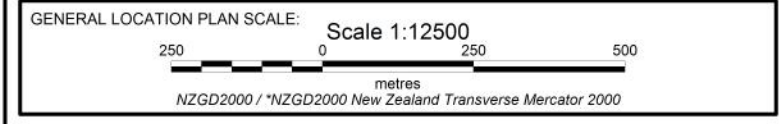
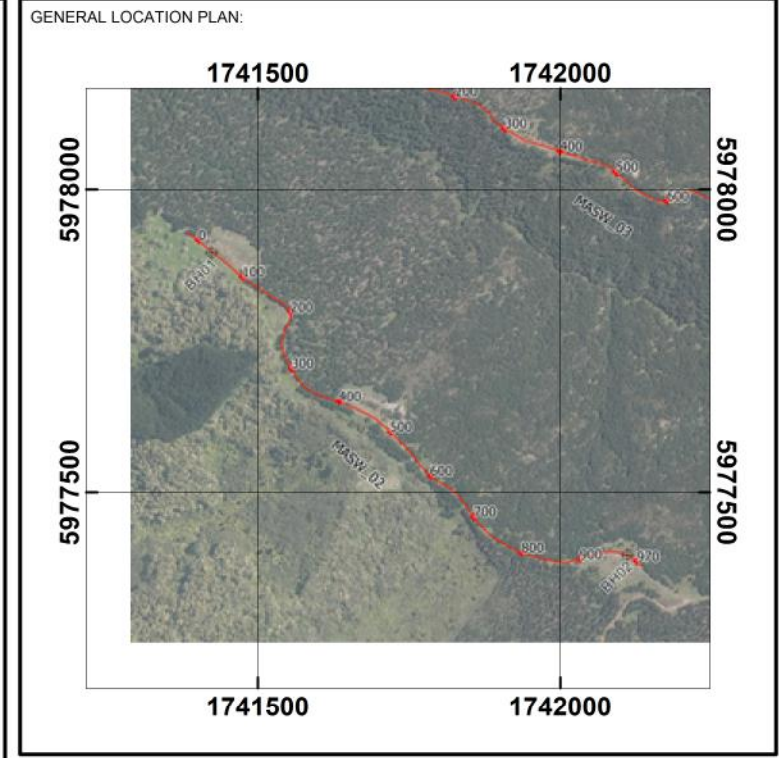
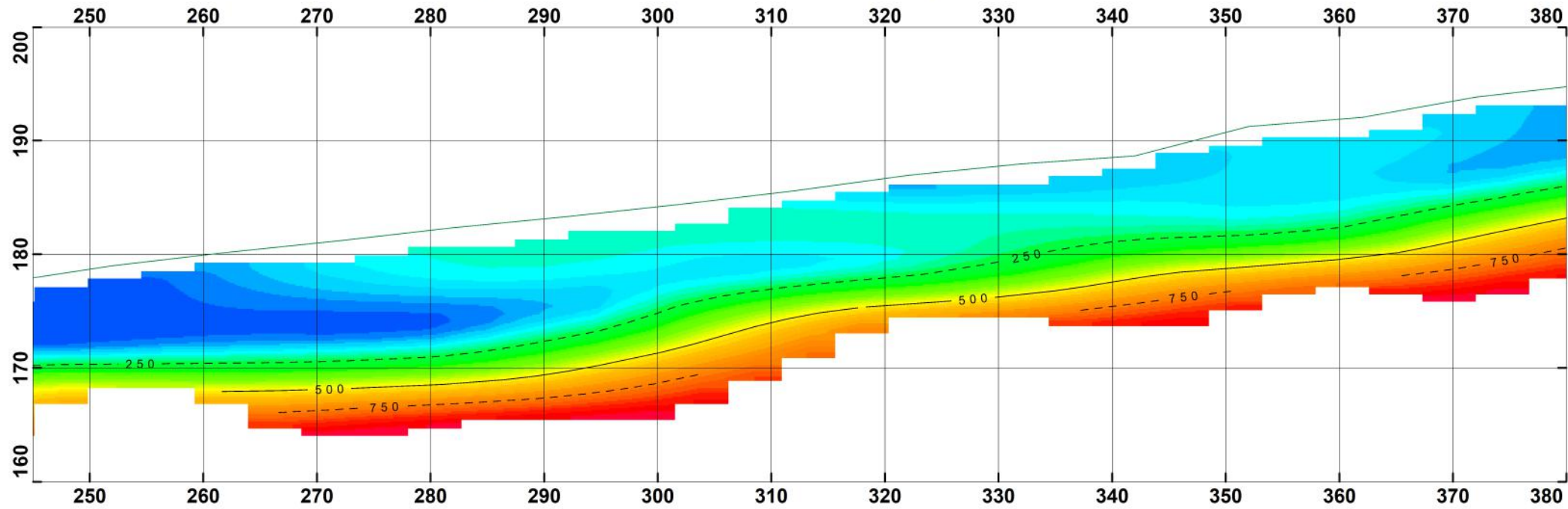
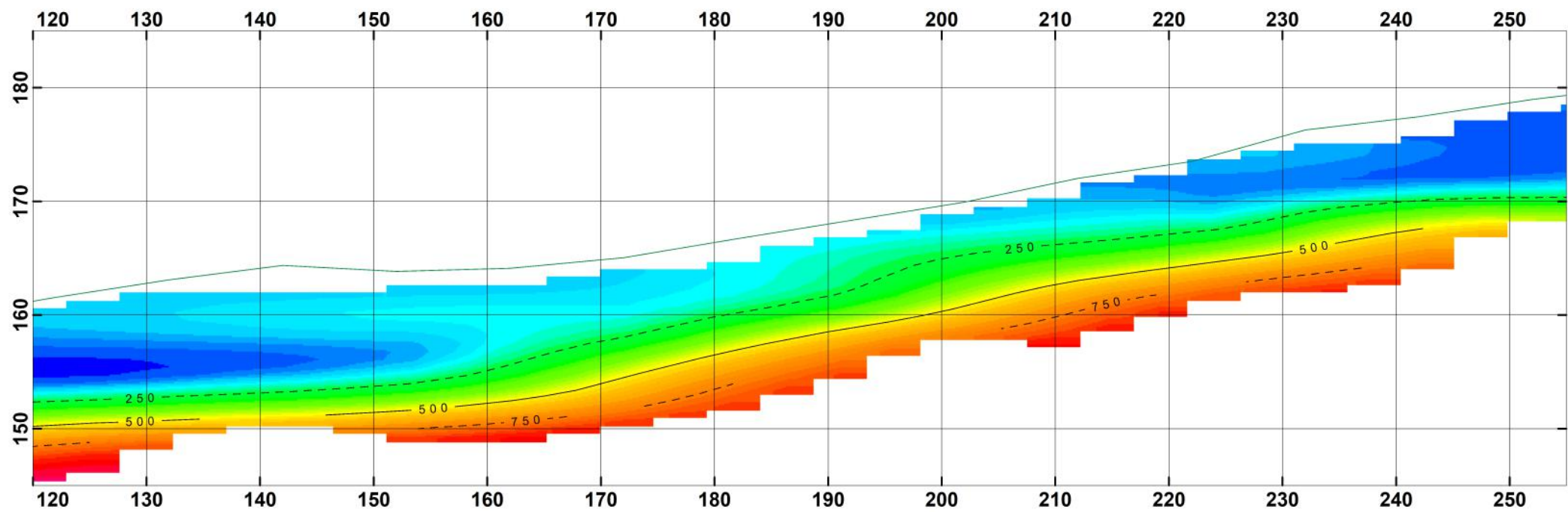
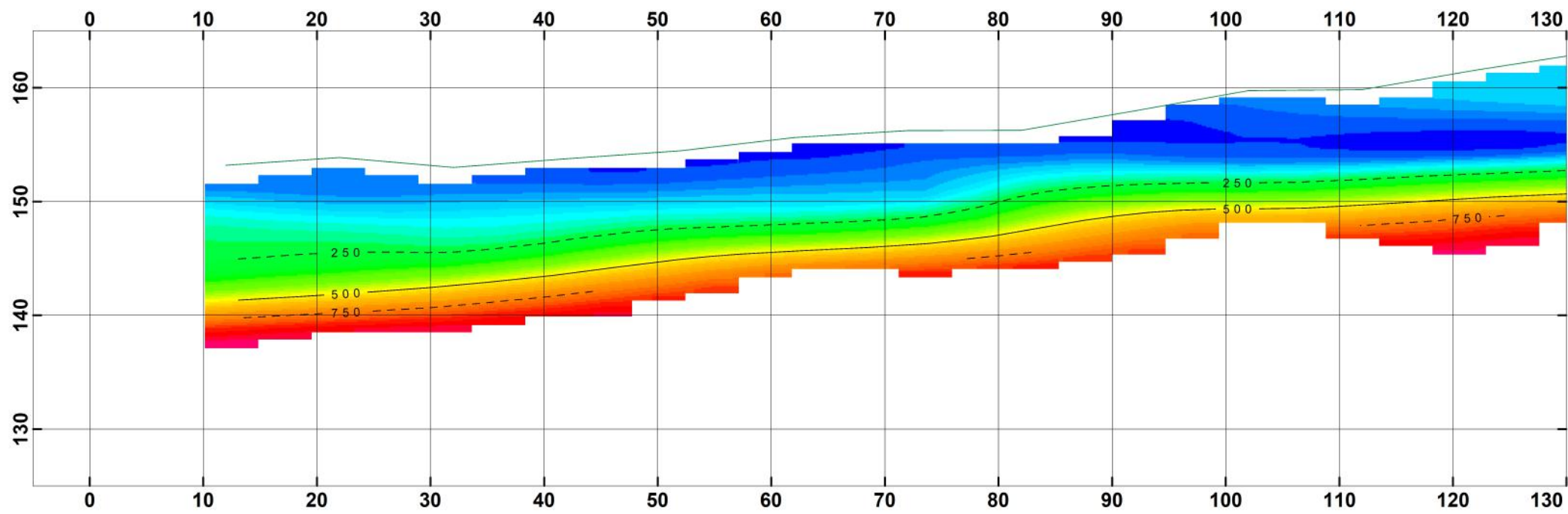
PROJECT:
**DOMI PROJECT
 GEOPHYSICAL INVESTIGATION**

TITLE:
**MASW LINE 01
 375 - 530 m**

INTERP. BY: AM	DATE: 27/06/2018	DRAWN BY: OG	DATE: 29/06/2018
CHECKED BY: OG	DATE: 29/06/2018	APPROVED BY: LM	DATE: 28/06/2018

CONTRACT No.: 181500905 FIGURE 03
 FILE NAME: 181500905.pdf
 PLOTTED DRAWING SIZE: A3 (420 x 297)

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NOTES:
 1. Imagery data sourced from LINZ data service (June, 2018)
 2. x coordinates refer to chainage (m)

CLIENT: **TONKIN & TAYLOR**

PROJECT: **DOMI PROJECT
 GEOPHYSICAL INVESTIGATION**

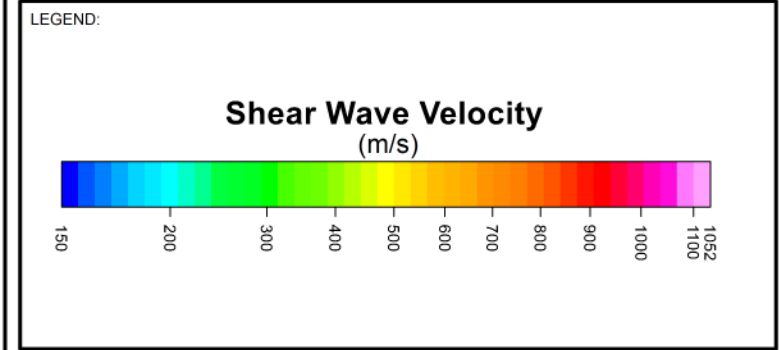
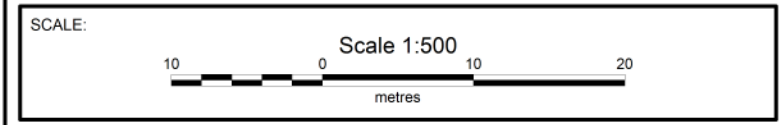
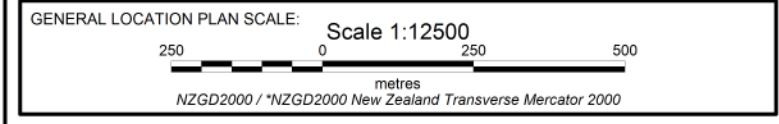
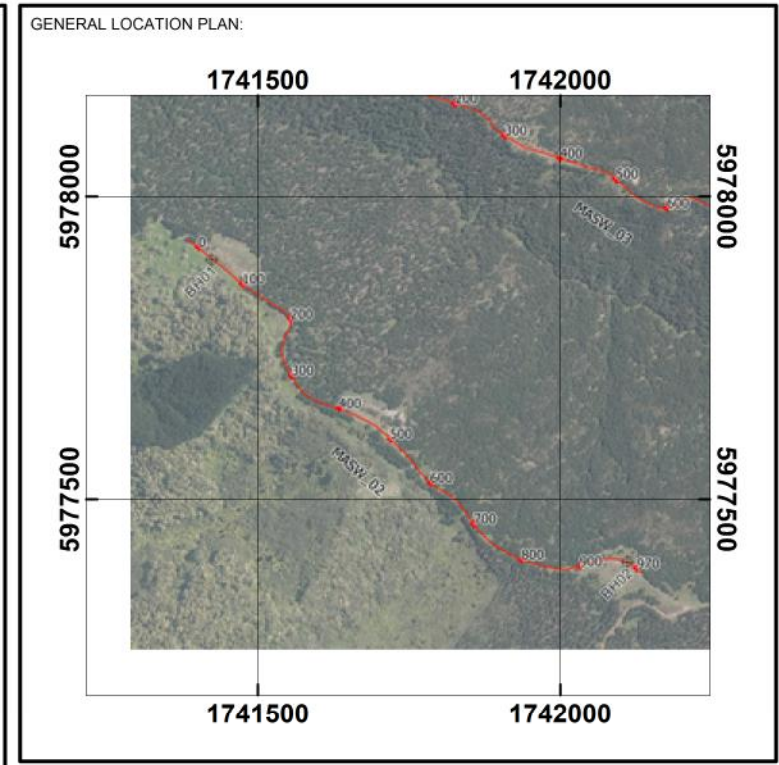
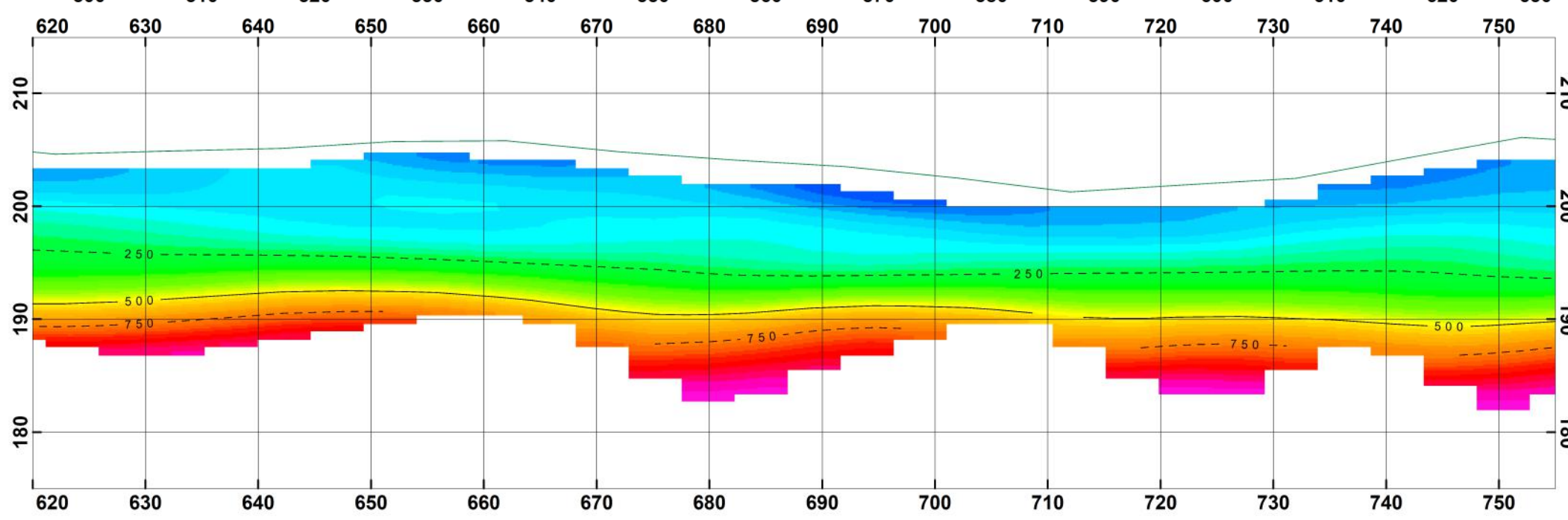
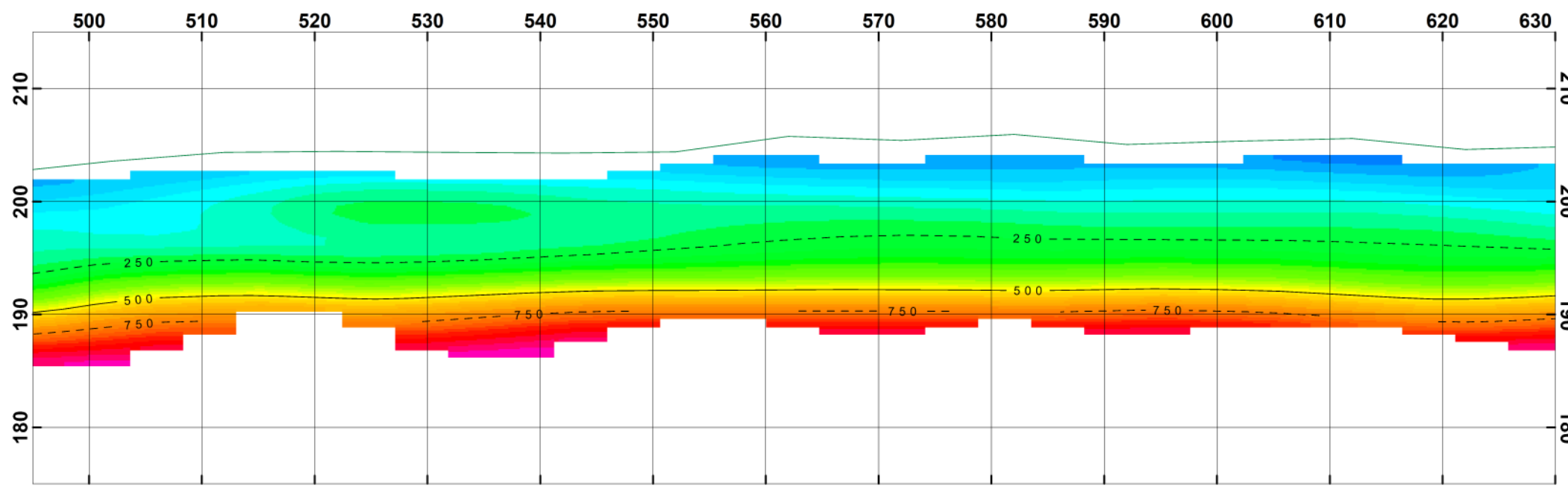
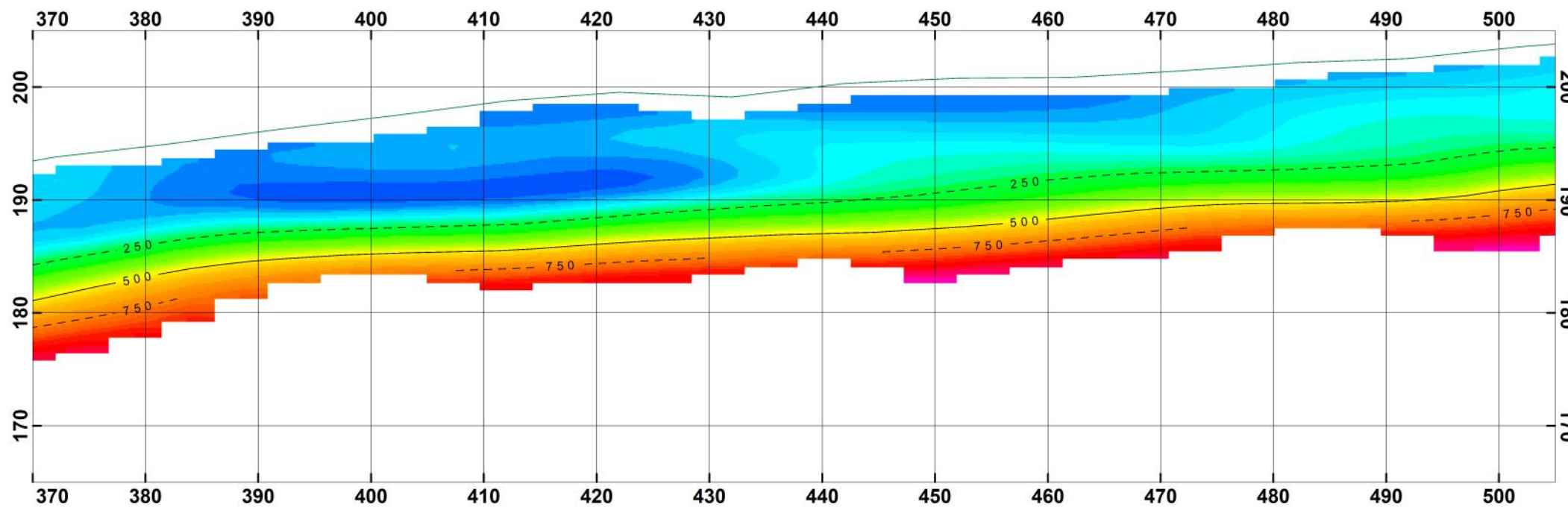
TITLE: **MASW LINE 02
 0 - 375 m**

INTERP. BY: AM	DATE: 27/06/2018	DRAWN BY: OG	DATE: 28/06/2018
CHECKED BY: OG	DATE: 27/06/2018	APPROVED BY: LM	DATE: 28/06/2018

CONTRACT No.: 181500905
 FILE NAME: 181500905.pdf
 PLOTTED DRAWING SIZE: A3 (420 x 297)

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NOTES:

1. Imagery data sourced from LINZ data service (June, 2018)
2. x coordinates refer to chainage (m)

CLIENT: **TONKIN & TAYLOR**

PROJECT: **DOMES PROJECT
GEOPHYSICAL INVESTIGATION**

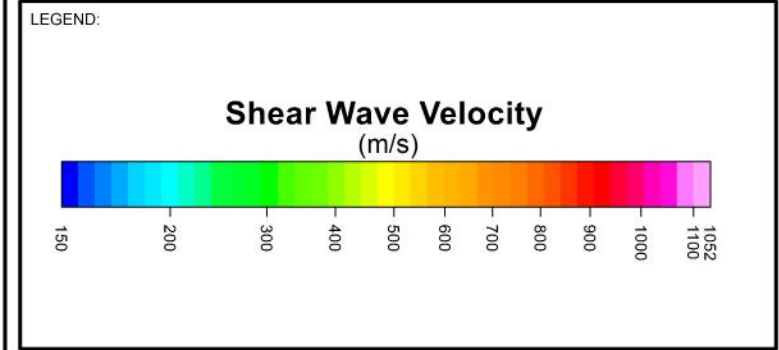
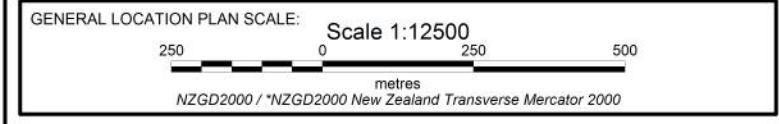
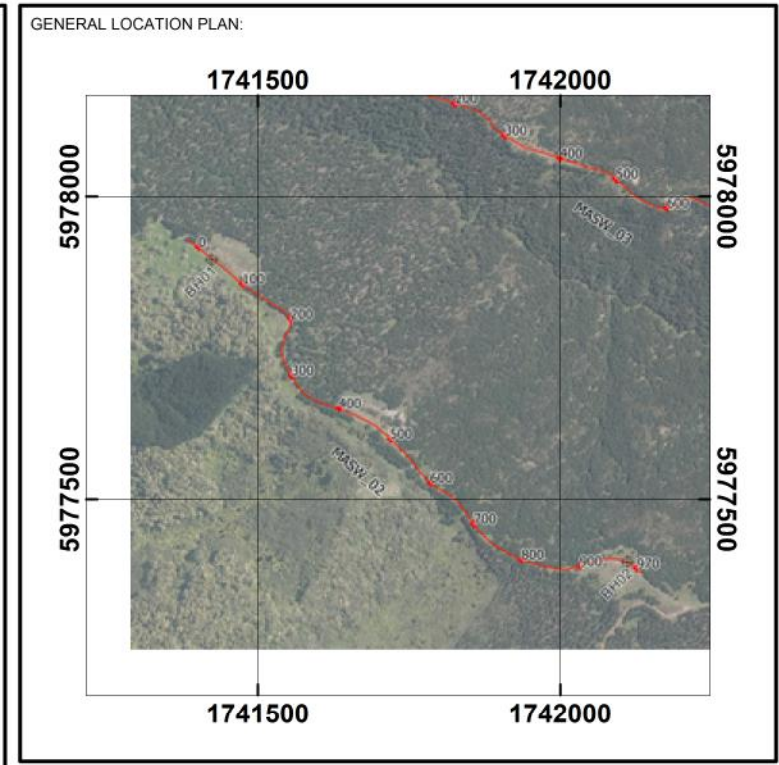
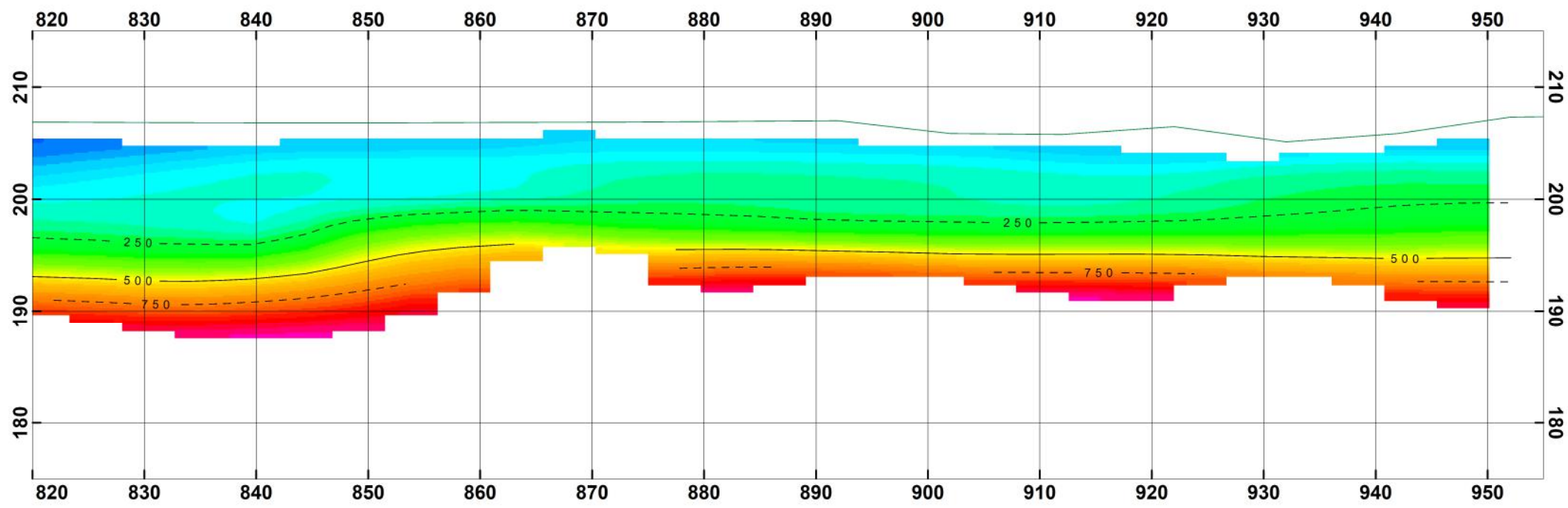
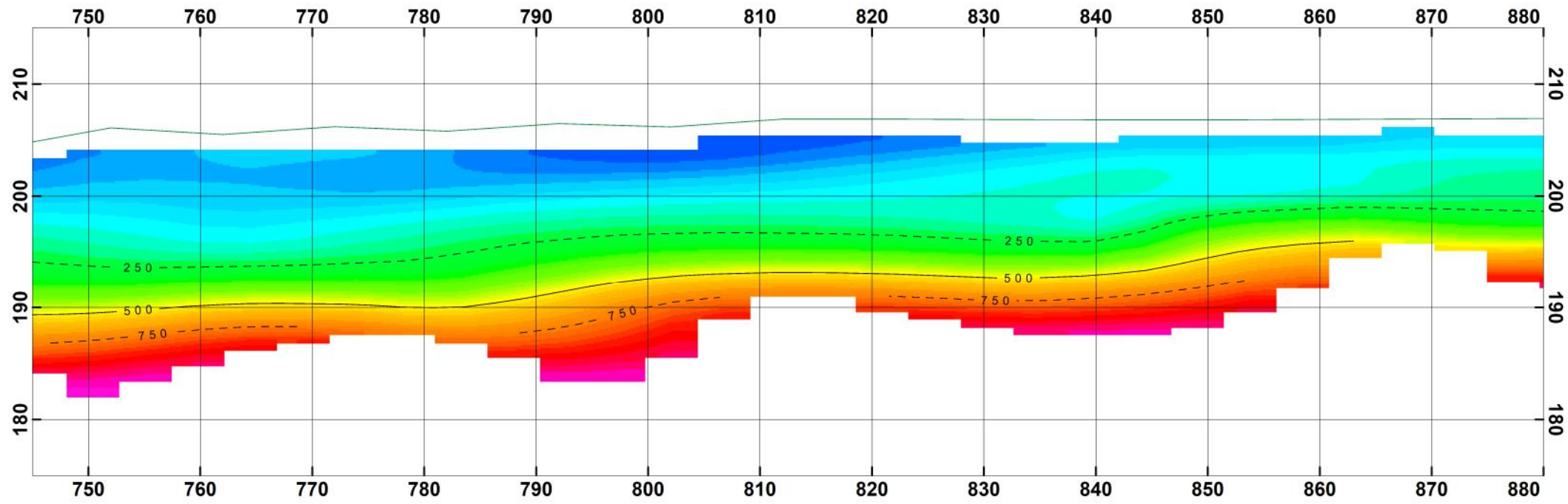
TITLE: **MASW LINE 02
375 - 750 m**

INTERP. BY: AM	DATE: 27/06/2018	DRAWN BY: PG	DATE: 28/06/2018
CHECKED BY: OG	DATE: 27/06/2018	APPROVED BY: LM	DATE: 28/06/2018

CONTRACT No.: 181500905 FIGURE 05

FILE NAME: 181500905.pdf
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NOTES:

1. Imagery data sourced from LINZ data service (June, 2018)
2. x coordinates refer to chainage (m)

CLIENT: **TONKIN & TAYLOR**

PROJECT: **DOMES PROJECT
GEOPHYSICAL INVESTIGATION**

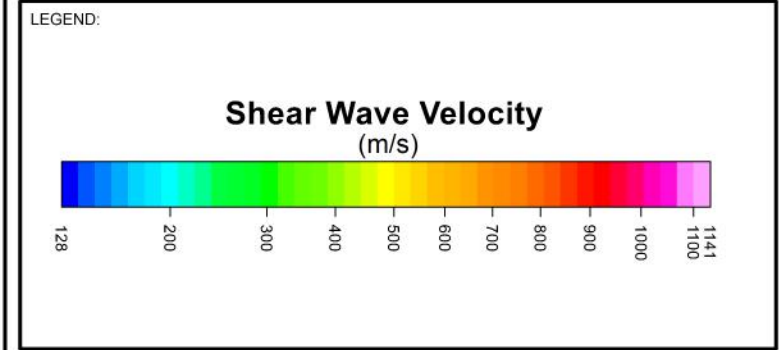
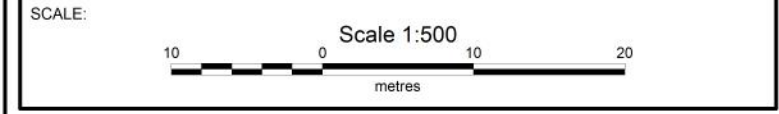
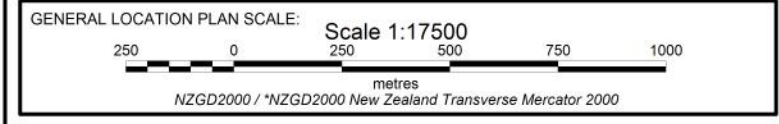
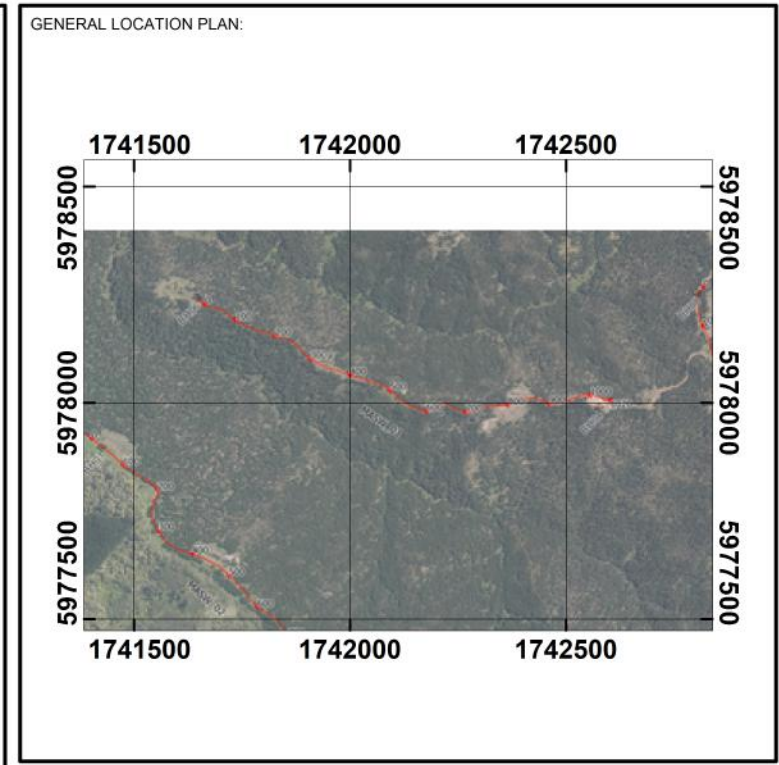
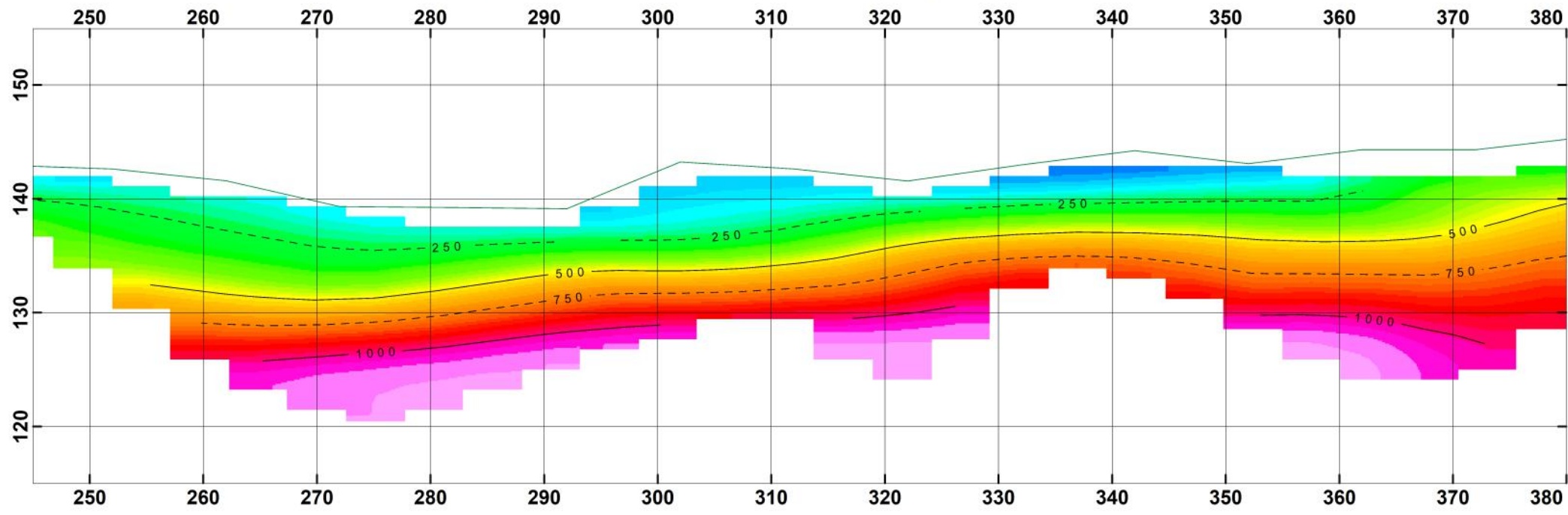
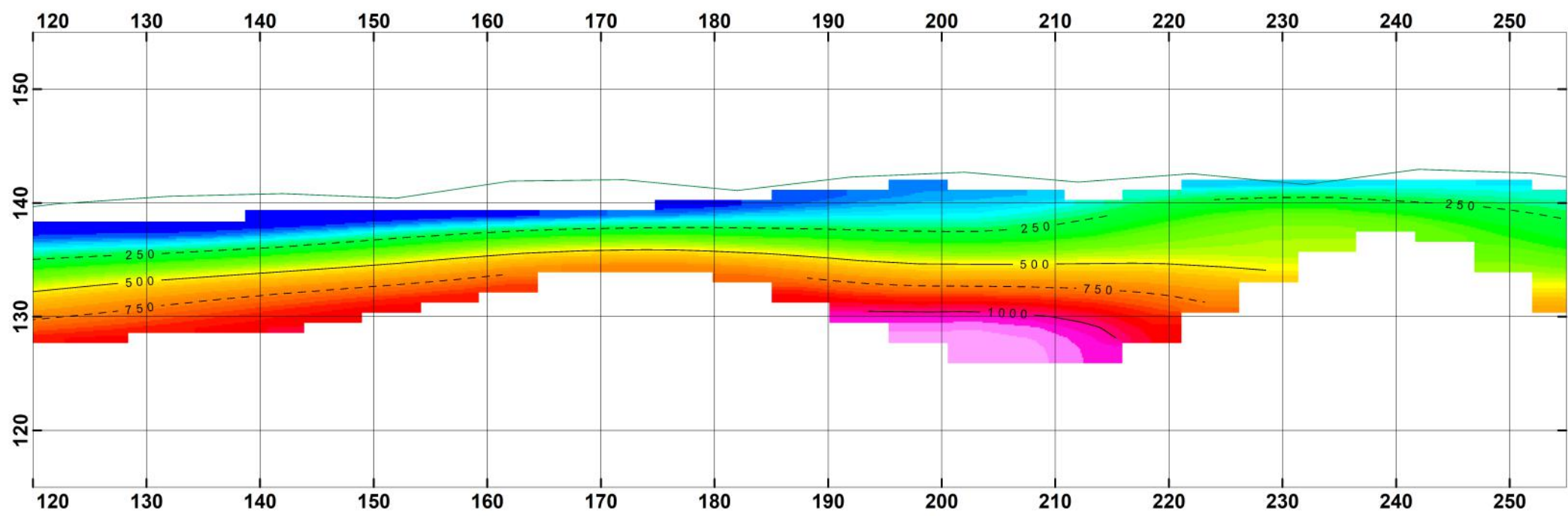
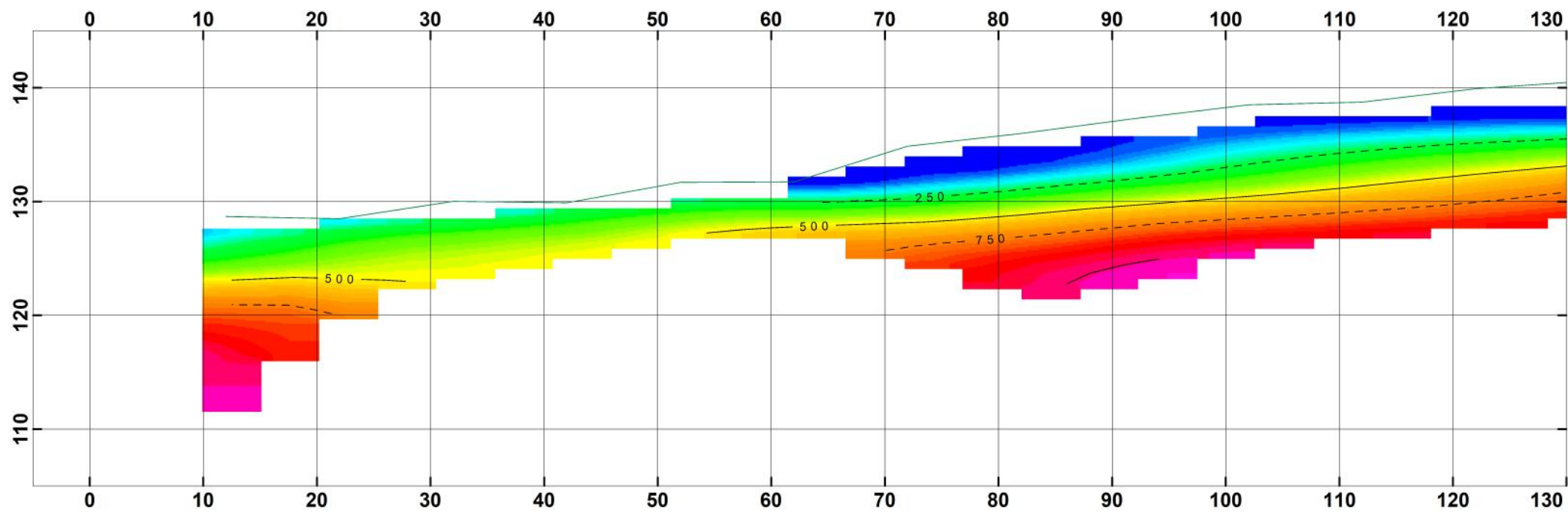
TITLE: **MASW LINE 02
750 - 950 m**

INTERP. BY: AM	DATE: 27/06/2018	DRAWN BY: OG	DATE: 29/06/2018
CHECKED BY: OG	DATE: 29/06/2018	APPROVED BY: LM	DATE: 28/06/2018

CONTRACT No.: 181500905 FIGURE 06

FILE NAME: 181500905.pdf
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NOTES:
 1. Imagery data sourced from LINZ data service (June, 2018)
 2. x coordinates refer to chainage (m)

CLIENT: TONKIN & TAYLOR

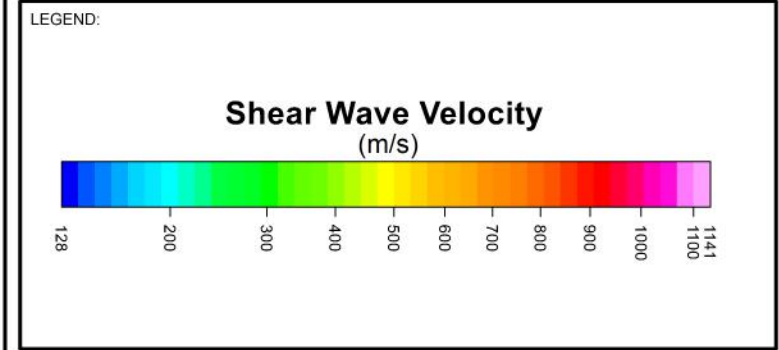
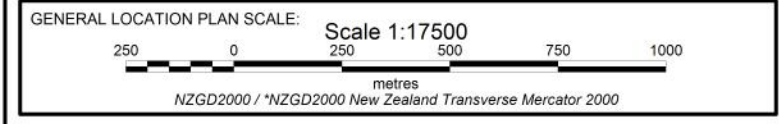
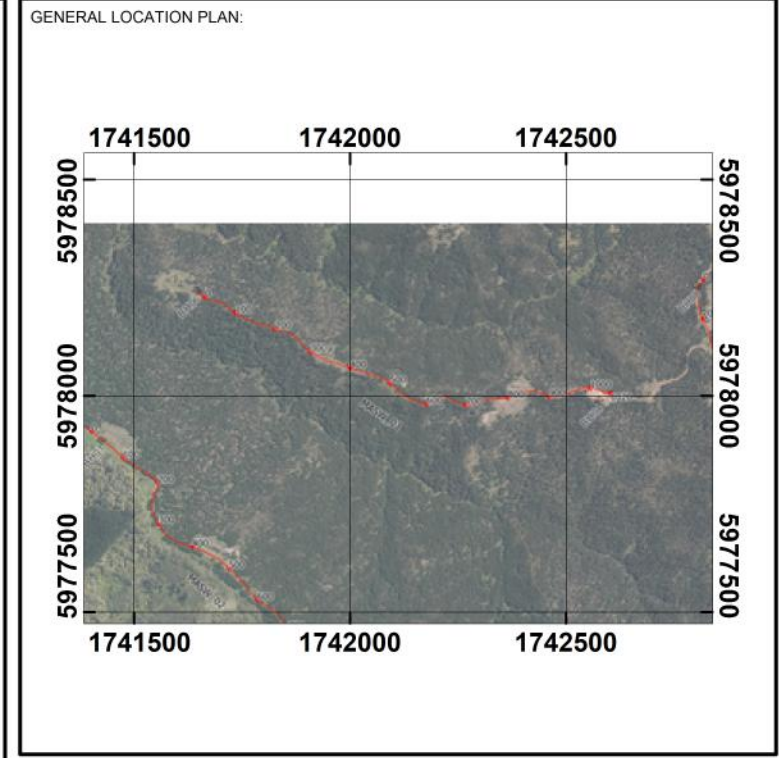
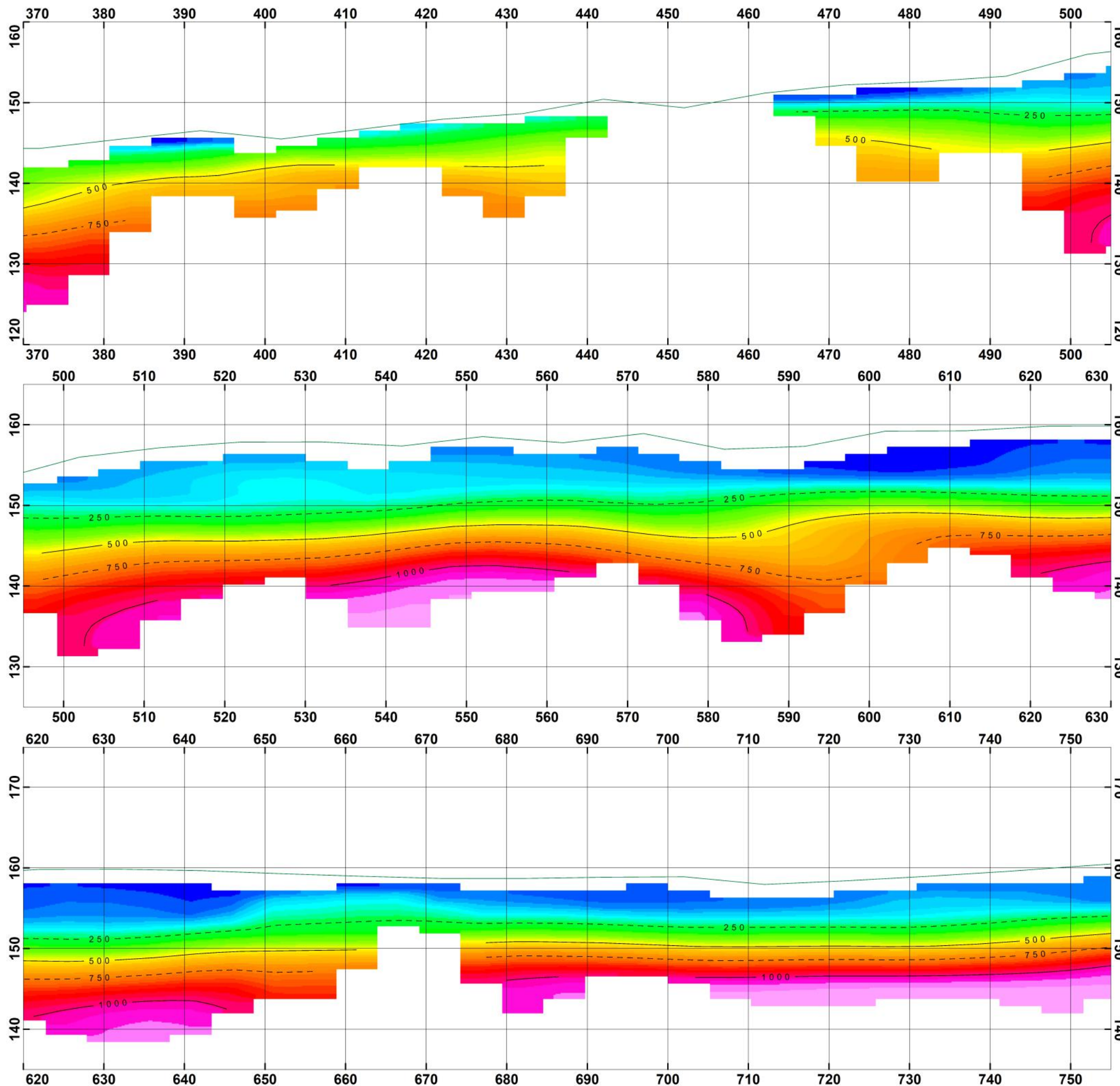
PROJECT: DOME PROJECT
 GEOPHYSICAL INVESTIGATION

TITLE: MASW LINE 03
 0 - 375 m

INTERP. BY: AM	DATE: 27/06/2018	DRAWN BY: OG	DATE: 29/06/2018
CHECKED BY: OG	DATE: 29/06/2018	APPROVED BY: LM	DATE: 29/06/2018

CONTRACT No.: 181500905
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NOTES:

1. Imagery data sourced from LINZ data service (June, 2018)
2. x coordinates refer to chainage (m)

CLIENT: **TONKIN & TAYLOR**

PROJECT: **DOMI PROJECT
GEOPHYSICAL INVESTIGATION**

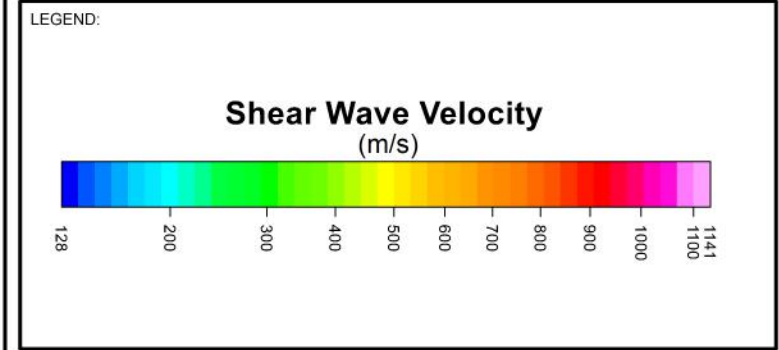
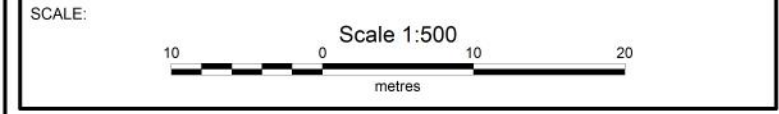
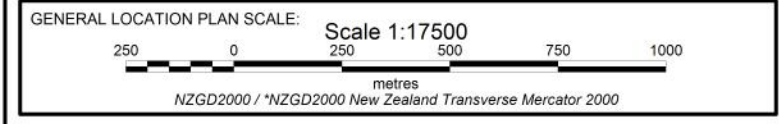
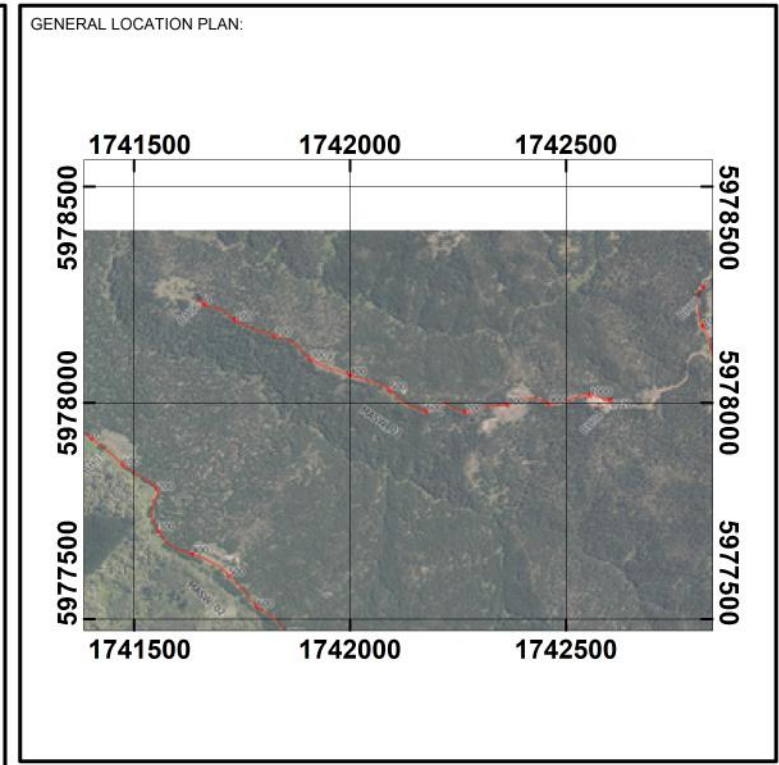
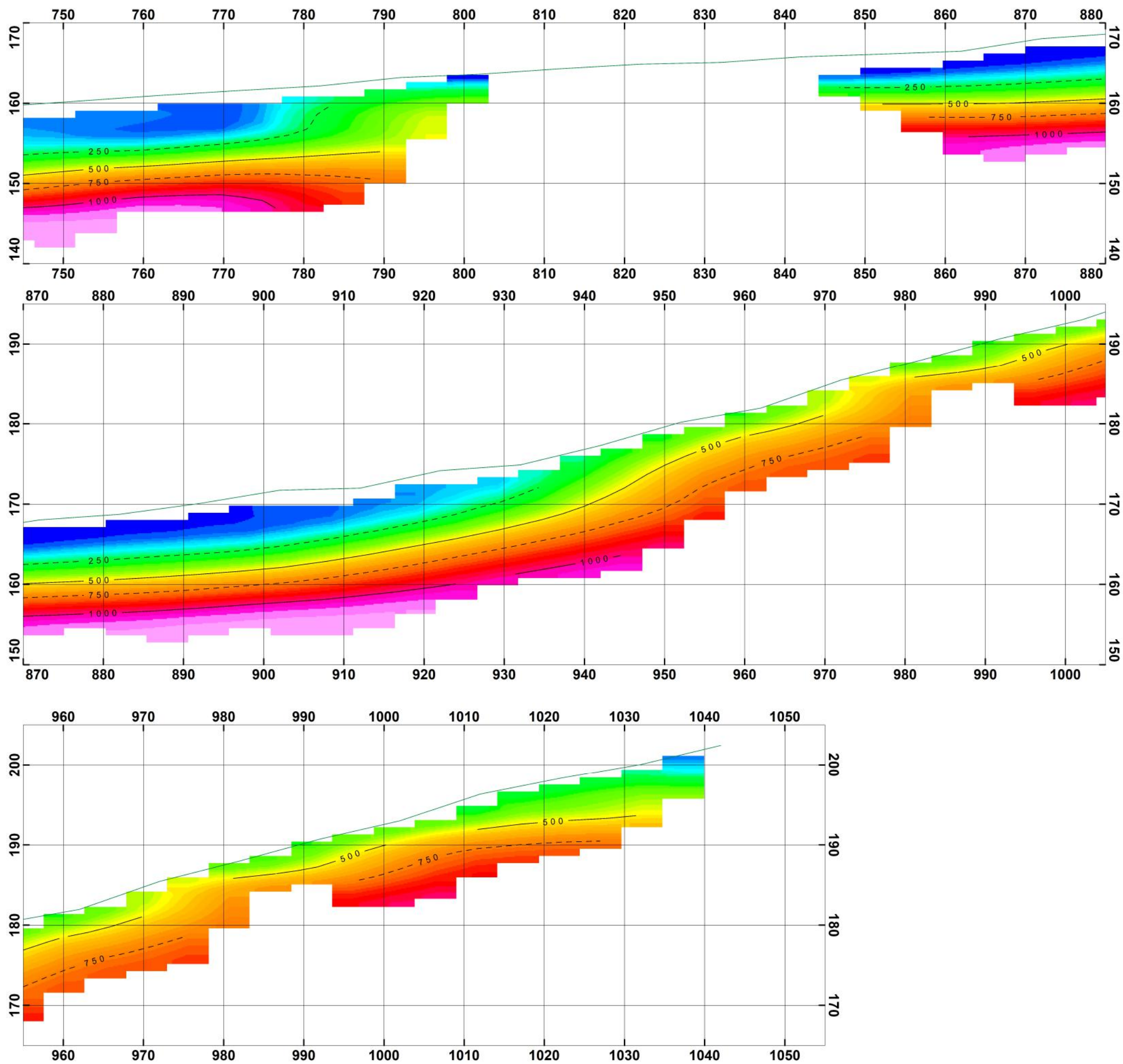
TITLE: **MASW LINE 03
375 - 750 m**

INTERP. BY: AM	DATE: 27/06/2018	DRAWN BY: OG	DATE: 29/06/2018
CHECKED BY: OG	DATE: 29/06/2018	APPROVED BY: LM	DATE: 29/06/2018

CONTRACT No.: 181500905 FIGURE 08

FILE NAME: 181500905.pdf
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NOTES:

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CLIENT: **TONKIN & TAYLOR**

PROJECT: **DOMI PROJECT
GEOPHYSICAL INVESTIGATION**

TITLE: **MASW LINE 03
750 - 1050 m**

INTERP. BY: AM	DATE: 27/06/2018	DRAWN BY: PG	DATE: 28/06/2018
CHECKED BY: OG	DATE: 27/06/2018	APPROVED BY: LM	DATE: 28/06/2018

CONTRACT No.: 181500905 FIGURE 09

FILE NAME: 181500905.pdf
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