

**APPENDIX 3 RESULTS OF MEASUREMENTS OF TOTAL INORGANIC  
CARBON, TOTAL CARBON, OXYGEN AND CARBON ISOTOPIC  
COMPOSITIONS**

**A3.1 Box-core WLB-003C**

Table A3-1 Geochemical and isotopic results of bulk sediments from box core WLB-003C

Number	Depth (mm)	Age (Cal Yr)	TOC (wt %C)	TIC (wt %C)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}$ (‰)
3C0-5	2.5	2000.6	5.15	2.69	3.813	0.292
3C5-10	7.5	1999.8	3.12	2.48	3.508	0.496
3C10-15	12.5	1999.0	3.46	1.80	3.029	-1.183
3C15-20	17.5	1998.1	2.94	1.67	3.273	-0.603
3C20-25	22.5	1997.3	4.03	1.09	1.873	-3.194
3C25-30	27.5	1996.5	4.46	1.12	2.381	-2.310
3C30-35	32.5	1995.6	5.06	1.48	3.112	-1.108
3C35-40	37.5	1994.8	5.01	1.50	3.210	-1.127
3C40-45	42.5	1994.0	5.20	1.37	2.758	-1.481
3C45-50	47.5	1993.1	5.25	1.63	3.032	-0.984
3C50-55	52.5	1992.3	5.04	1.62	2.942	-1.440
3C55-60	57.5	1991.5	4.75	1.38	2.532	-2.785
3C60-65	62.5	1990.6	4.27	1.05	1.335	-3.765
3C65-70	67.5	1989.8	3.11	1.95	3.093	-1.442
3C70-75	72.5	1988.9	3.25	1.98	3.670	-1.122
3C75-80	77.5	1988.1	3.45	0.97	1.619	-3.885
3C80-85	82.5	1987.2	2.08	2.43	3.609	0.153
3C85-90	87.5	1986.3	2.45	2.01	3.406	-0.569
3C90-96	93.0	1985.4	2.91	1.80	3.427	-0.569
3C96-101	98.5	1984.4	3.58	1.19	2.057	-1.860
3C101-106	103.5	1983.6	4.50	1.11	2.071	-1.261
3C106-111	108.5	1982.7	4.24	1.69	3.168	0.386
3C111-116	113.5	1981.8	4.37	2.10	3.835	1.983
3C116-121	118.5	1980.9	4.03	2.36	3.726	1.274
3C121-126	123.5	1980.1	3.93	1.81	2.929	1.074
3C126-131	128.5	1979.2	3.38	2.06	3.333	1.294
3C131-136	133.5	1978.3	2.91	2.70	3.775	1.913
3C136-141	138.5	1977.4	3.05	1.91	2.972	1.375
3C141-147	144.0	1976.4	2.83	1.58	2.804	0.516
3C147-153	150.0	1975.4	2.38	3.15	3.985	3.564

Number	Depth (mm)	Age (Cal Yr)	TOC (wt %C)	TIC (wt %C)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}$ (‰)
3C153-158	155.5	1974.4	3.12	3.12	3.909	3.137
3C158-163	160.5	1973.5	3.51	2.17	3.408	2.149
3C163-168	165.5	1972.6	-2.55	2.55	3.659	2.161
3C168-173	170.5	1971.7	3.76	2.66	3.797	2.586
3C173-178	175.5	1970.8	4.29	2.63	3.687	2.510
3C178-183	180.5	1969.9	4.04	2.61	3.571	2.019
3C183-188	185.5	1969.0	4.35	2.67	3.687	1.812
3C188-193	190.5	1968.0	4.21	2.79	3.594	1.657
3C193-198	195.5	1967.1	3.92	3.11	3.801	2.028
3C198-203	200.5	1966.2	4.47	2.74	3.727	1.821
3C203-208	205.5	1965.3	4.61	2.30	3.535	1.375
3C208-213	210.5	1964.4	5.06	1.96	2.993	1.195
3C213-218	215.5	1963.4	4.73	2.15	3.112	1.744
3C218-223	220.5	1962.5	3.89	3.00	3.533	2.249
3C223-228	225.5	1961.6	3.82	3.13	3.590	2.568
3C228-233	230.5	1960.6	4.24	3.12	3.652	2.806
3C233-238	235.5	1959.7	3.98	3.18	3.634	2.746
3C238-243	240.5	1958.8	4.57	2.03	3.038	1.158
3C243-248	245.5	1957.8	4.19	2.34	3.271	1.958
3C248-253	250.5	1956.9	3.30	3.03	3.398	2.550
3C253-258	255.5	1955.9	3.25	3.38	3.605	2.988
3C258-263	260.5	1955.0	3.26	2.99	3.268	2.634
3C263-268	265.5	1954.0	3.15	2.89	3.072	2.546
3C268-273	270.5	1953.1	3.01	3.24	3.415	2.639
3C273-278	275.5	1952.1	3.07	3.46	3.456	2.626
3C278-283	280.5	1951.2	3.25	3.18	3.304	2.267
3C283-288	285.5	1950.2	2.88	3.43	3.390	2.194
3C288-293	290.5	1949.2	2.64	3.89	3.481	2.485
3C293-298	295.5	1948.3	2.64	3.40	3.364	2.320
3C298-303	300.5	1947.3	2.22	3.85	3.415	2.317
3C303-308	305.5	1946.3	2.12	4.26	3.440	2.404
3C308-313	310.5	1945.3	2.36	3.59	3.361	2.037
3C313-318	315.5	1944.4	2.38	3.55	3.278	1.695
3C318-323	320.5	1943.4	2.43	3.42	3.169	1.492
3C323-328	325.5	1942.4	2.39	3.51	3.224	1.362
3C328-333	330.5	1941.4	2.50	3.46	3.041	0.983
3C333-338	335.5	1940.4	2.55	3.58	3.157	0.907
3C338-343	340.5	1939.4	2.43	3.74	3.224	1.012
3C343-348	345.5	1938.4	2.42	3.84	3.256	1.058
3C348-353	350.5	1937.4	2.36	4.07	3.234	1.218
3C353-358	355.5	1936.4	2.35	4.09	3.249	1.402
3C358-363	360.5	1935.4	2.20	4.01	3.224	0.765
3C363-368	365.5	1934.4	2.32	3.67	3.132	0.020

Number	Depth (mm)	Age (Cal Yr)	TOC (wt %C)	TIC (wt %C)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}$ (‰)
3C368-373	370.5	1933.4	2.13	3.64	3.004	-0.988
3C373-378	375.5	1932.4	1.95	3.61	2.870	-1.518
3C378-383	380.5	1931.4	1.98	2.93	2.720	-1.901
3C383-388	385.5	1930.4	1.86	2.91	2.642	-2.412
3C388-393	390.5	1929.4	1.79	2.73	2.706	-2.260
3C393-396	394.5	1928.5	2.03	2.67	2.391	-2.452

Table A4-2 Stable isotopic results of ostracode shells (*L. ceriotuberosa*) from box core WLB-003C

Number	Depth (mm)	Age (Cal. Yr)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}$ (‰)
1	10	1999.4	1.036	1.091
2	25	1996.9	-0.359	3.529
3	35	1995.2	-0.368	4.706
4	45	1993.6	-0.031	4.915
5	55	1991.9	0.440	5.804
6	65	1990.2	-0.100	3.936
7	75	1988.5	0.490	5.370
8	85	1986.8	-0.305	0.783
9	96	1984.9	-0.320	2.631
10	106	1983.1	0.366	-0.493
11	116	1981.4	0.057	7.259
12	126	1979.6	0.169	5.679
13	136	1977.9	-0.735	3.350
14	147	1975.9	-0.308	6.028
15	158	1973.9	-0.125	6.273
16	168	1972.1	-0.010	9.433
17	178	1970.3	0.016	8.100
18	188	1968.5	0.126	6.842
19	198	1966.7	0.120	6.356
20	208	1964.8	-0.358	8.411
21	218	1963.0	0.454	8.580
22	228	1961.1	-0.442	5.448
23	238	1959.2	-0.371	5.543
24	248	1957.4	-0.457	6.101
25	258	1955.5	-0.472	6.420
26	268	1953.6	-0.917	7.244
27	278	1951.6	-0.843	7.642
28	288	1949.7	-1.051	9.046
29	298	1947.8	-0.569	10.552

Number	Depth (mm)	Age (Cal. Yr)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}$ (‰)
30	308	1945.8	-0.705	3.425
31	318	1943.9	-1.032	3.401
32	328	1941.9	-0.663	3.455
33	338	1939.9	-0.558	1.527
34	348	1937.9	-0.829	2.843
35	358	1935.9	-0.987	2.157
36	368	1933.9	-1.407	1.508
37	378	1931.9	-1.785	0.331
38	388	1929.9	-1.855	0.453
39	395	1928.4	-1.822	1.016

### A3.2 Piston Core WLC002

Table A3-3 Geochemical and isotopic results of bulk sediments from piston core WLC002

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}$ (‰)
2-5-0-1	0.5	2.12	17.67	3.619	-0.904
2-5-1-2	1.5	1.84	15.33	3.533	-0.534
2-5-2-3	2.5	2.04	17.00	3.621	-0.268
2-5-3-4	3.5	2.12	17.67	3.917	0.665
2-5-4-5	4.5	2.20	18.33	3.991	1.680
2-5-5-6	5.5	2.42	20.17	3.855	2.097
2-5-6-7	6.5	1.60	13.33	3.153	0.530
2-5-7-8	7.5	1.69	14.08	3.225	0.866
2-5-8-9	8.5	2.43	20.25	3.691	1.962
2-5-9-10	9.5	2.82	23.50	4.008	3.497
2-5-10-11	10.5	2.94	24.50	3.895	3.286
2-5-11-12	11.5	1.95	16.25	3.376	1.831
2-5-12-13	12.5	2.40	20.00	3.516	1.978
2-5-13-14	13.5	2.32	19.33	3.466	1.842
2-5-14-15	14.5	2.25	18.75	3.397	1.274
2-5-15-16	15.5	2.99	24.92	3.609	2.603
2-5-16-17	16.5	2.78	23.17	3.459	2.523
2-5-17-18	17.5	3.04	25.33	3.426	2.844
2-5-18-19	18.5	2.78	23.17	3.234	2.344
2-5-19-20	19.5	2.88	24.00	3.271	2.049
2-5-20-21	20.5	2.90	24.17	3.206	1.988
2-5-21-22	21.5	3.56	29.67	3.241	2.180
2-5-22-23	22.5	3.83	31.92	3.350	2.272
2-5-23-24	23.5	3.57	29.75	3.269	1.671
2-5-24-25	24.5	3.63	30.25	3.362	1.429
<b>Number</b>	<b>Depth</b>	<b>TIC</b>	<b>CaCO<sub>3</sub></b>	<b><math>\delta^{13}\text{C}</math></b>	<b><math>\delta^{18}\text{O}</math></b>

	(cm)	(wt % C)	(%)	(‰)	(‰)
2-5-25-26	25.5	3.46	28.83	3.132	0.346
2-5-26-27	26.5	3.68	30.67	3.058	-0.507
2-5-27-28	27.5	3.53	29.42	2.896	-1.542
2-5-28-29	28.5	2.74	22.83	2.760	-2.284
2-5-29-30	29.5	2.21	18.42	2.738	-2.611
2-5-30-31	30.5	2.01	16.75	2.412	-3.337
2-5-31-32	31.5	1.65	13.75	1.653	-3.835
2-5-32-33	32.5	2.07	17.25	2.223	-3.199
2-5-33-34	33.5	1.78	14.83	1.584	-3.724
2-5-34-35	34.5	1.30	10.83	1.222	-4.026
2-5-35-36	35.5	2.13	17.75	2.670	-2.636
2-5-36-37	36.5	2.75	22.92	2.678	-2.431
2-5-37-38	37.5	1.93	16.08	2.783	-2.626
2-5-38-39	38.5	2.51	20.92	2.667	-2.822
2-5-39-40	39.5	1.82	15.17	1.850	-3.942
2-5-40-41	40.5	1.21	10.08	1.517	-5.124
2-5-41-42	41.5	1.32	11.00	1.375	-5.235
2-5-42-43	42.5	1.42	11.83	1.789	-4.844
2-5-43-44	43.5	1.56	13.00	1.925	-4.542
2-5-44-45	44.5	2.54	21.17	2.587	-3.853
2-5-45-46	45.5	2.63	21.92	2.484	-4.042
2-5-46-47	46.5	2.26	18.83	2.324	-4.310
2-5-47-48	47.5	2.36	19.67	2.459	-4.552
2-5-48-49	48.5	2.03	16.92	2.385	-4.630
2-5-49-50	49.5	1.66	13.83	2.201	-5.207
2-5-50-51	50.5	2.03	16.92	2.282	-4.718
2-5-51-52	51.5	0.93	7.75	1.942	-5.378
2-5-52-53	52.5	0.77	6.42	1.926	-5.664
2-5-53-54	53.5	0.88	7.33	1.649	-5.615
2-5-54-55	54.5	0.28	2.33	-2.263	-6.810
2-5-55-56	55.5	0.51	4.25	-1.530	-6.642
2-5-56-57	56.5	1.51	12.58	1.671	-5.195
2-5-57-58	57.5	1.38	11.50	1.758	-4.927
2-5-58-59	58.5	1.88	15.67	2.462	-4.533
2-5-59-60	59.5	1.53	12.75	1.465	-5.657
2-5-60-61	60.5	1.74	14.50	2.562	-4.923
2-5-61-62	61.5	1.03	8.58	1.186	-5.609
2-5-62-63	62.5	1.37	11.42	1.713	-5.319
2-5-63-64	63.5	2.34	19.50	2.589	-4.299
2-5-64-65	64.5	2.36	19.67	2.592	-4.188
2-5-65-66	65.5	1.89	15.75	2.512	-4.510
2-5-66-67	66.5	1.04	8.67	0.688	-5.873
2-5-67-68	67.5	1.12	9.33	1.258	-5.608

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-5-68-69	68.5	1.45	12.08	1.903	-5.568
2-5-69-70	69.5	0.27	2.25	-3.903	-6.905
2-5-70-71	70.5	0.30	2.50	-2.684	-6.676
Gap					
2-4-0-1	79.5	2.63	21.92	3.428	-3.418
2-4-1-2	80.5	2.23	18.58	3.363	-3.524
2-4-2-3	81.5	2.42	20.17	3.432	-3.707
2-4-3-4	82.5	2.47	20.58	3.424	-4.125
2-4-4-5	83.5	3.06	25.50	3.790	-4.183
2-4-5-6	84.5	2.58	21.50	3.317	-4.364
2-4-6-7	85.5	2.22	18.50	3.037	-4.206
2-4-7-8	86.5	2.92	24.33	3.561	-4.190
2-4-8-9	87.5	2.53	21.08	3.107	-4.335
2-4-9-10	88.5	2.23	18.58	3.361	-4.447
2-4-10-11	89.5	2.37	19.75	3.134	-4.808
2-4-11-12	90.5	3.42	28.50	3.163	-4.658
2-4-12-13	91.5	2.86	23.83	2.788	-4.886
2-4-13-14	92.5	0.13	1.08	-2.754	-6.269
2-4-14-15	93.5	0.17	1.42	-4.155	-7.162
2-4-15-16	94.5	0.50	4.17	0.205	-6.155
2-4-16-17	95.5	0.87	7.25	1.814	-5.825
2-4-17-18	96.5	1.01	8.42	1.186	-6.059
2-4-18-19	97.5	1.38	11.50	2.920	-5.269
2-4-19-20	98.5	0.66	5.50	0.780	-5.582
2-4-20-21	99.5	1.28	10.67	2.603	-4.341
2-4-21-22	100.5	2.07	17.25	3.317	-4.094
2-4-22-23	101.5	1.81	15.08	2.875	-4.287
2-4-23-24	102.5	2.02	16.83	3.424	-4.330
2-4-24-25	103.5	2.37	19.75	3.572	-4.319
2-4-25-26	104.5	2.07	17.25	3.190	-4.546
2-4-26-27	105.5	1.26	10.50	2.692	-5.248
2-4-27-28	106.5	1.36	11.33	2.168	-5.381
2-4-28-29	107.5	2.18	18.17	3.168	-4.622
2-4-29-30	108.5	2.38	19.83	3.697	-4.778
2-4-30-31	109.5	2.08	17.33	3.342	-4.904
2-4-31-32	110.5	2.05	17.08	3.589	-4.925
2-4-32-33	111.5	2.58	21.50	3.476	-4.693
2-4-33-34	112.5	2.30	19.17	3.486	-4.834
2-4-34-35	113.5	2.23	18.58	3.421	-4.872
2-4-35-36	114.5	1.80	15.00	3.024	-5.072
2-4-36-37	115.5	1.96	16.33	3.435	-4.846
2-4-37-38	116.5	1.93	16.08	3.587	-4.177
2-4-38-39	117.5	1.61	13.42	2.943	-3.493

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-4-39-40	118.5	2.75	22.92	3.842	-2.760
2-4-40-41	119.5	1.88	15.67	2.895	-3.162
2-4-41-42	120.5	1.10	9.17	2.032	-4.236
2-4-42-43	121.5	1.34	11.17	3.073	-4.193
2-4-43-44	122.5	0.70	5.83	1.472	-4.448
2-4-44-45	123.5	1.81	15.08	2.928	-2.490
2-4-45-46	124.5	1.56	13.00	3.455	-3.109
2-4-46-47	125.5	2.24	18.67	3.836	-2.637
2-4-47-48	126.5	2.64	22.00	3.417	-3.366
2-4-48-49	127.5	2.67	22.25	3.818	-2.595
2-4-49-50	128.5	1.96	16.33	3.355	-3.710
2-4-50-51	129.5	2.14	17.83	3.207	-3.341
2-4-51-52	130.5	1.30	10.83	2.802	-3.975
2-4-52-53	131.5	1.76	14.67	3.395	-3.421
2-4-53-54	132.5	1.96	16.33	3.710	-3.193
2-4-54-55	133.5	1.79	14.92	3.227	-3.474
2-4-55-56	134.5	2.34	19.50	3.305	-3.228
2-4-56-57	135.5	2.28	19.00	3.202	-3.256
2-4-57-58	136.5	2.12	17.67	3.135	-3.503
2-4-58-59	137.5	2.79	23.25	3.334	-3.093
2-4-59-60	138.5	2.09	17.42	2.279	-4.717
2-4-60-61	139.5	2.32	19.33	2.823	-4.904
2-4-61-62	140.5	3.31	27.58	2.945	-4.915
2-4-62-63	141.5	1.78	14.83	2.555	-5.561
2-4-63-64	142.5	1.91	15.92	2.519	-5.781
2-4-64-65	143.5	1.76	14.67	2.525	-5.612
2-4-65-66	144.5	1.26	10.50	2.377	-5.855
2-4-66-67	145.5	0.94	7.83	1.745	-6.792
2-4-67-68	146.5	1.17	9.75	2.134	-6.129
2-4-68-69	147.5	1.80	15.00	2.598	-5.877
2-4-69-70	148.5	1.61	13.42	2.372	-5.983
2-4-70-71	149.5	1.70	14.17	2.567	-5.975
2-4-71-72	150.5	1.56	13.00	2.411	-5.737
2-4-72-73	151.5	1.04	8.67	1.308	-5.474
2-4-73-74	152.5	1.33	11.08	2.750	-4.764
2-4-74-75	153.5	2.48	20.67	3.201	-4.320
2-4-75-76	154.5	1.31	10.92	1.593	-5.295
2-4-76-77	155.5	0.84	7.00	0.339	-6.130
2-4-77-78	156.5	1.04	8.67	1.598	-5.775
2-4-78-79	157.5	1.54	12.83	1.375	-5.477
2-4-79-80	158.5	1.68	14.00	2.826	-5.189
2-4-80-81	159.5	1.99	16.58	2.795	-5.091
2-4-81-82	160.5	2.01	16.75	2.624	-5.243

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-4-82-83	161.5	2.03	16.92	2.657	-5.400
2-4-83-84	162.5	2.13	17.75	2.738	-5.317
2-4-84-85	163.5	2.12	17.67	2.800	-5.603
2-4-85-86	164.5	2.56	21.33	2.821	-5.583
2-4-86-87	165.5	1.64	13.67	2.519	-6.065
2-4-87-88	166.5	1.46	12.17	2.624	-6.449
2-4-88-89	167.5	1.40	11.67	2.520	-6.656
2-4-89-90	168.5	2.04	17.00	2.696	-6.459
2-4-90-91	169.5	1.13	9.42	1.445	-6.731
2-4-91-92	170.5	0.77	6.42	0.567	-7.100
2-4-92-93	171.5	1.01	8.42	2.222	-6.232
2-4-93-94	172.5	1.23	10.25	2.348	-5.902
2-4-94-95	173.5	1.79	14.92	3.597	-5.105
2-4-95-96	174.5	2.10	17.50	3.787	-5.181
2-4-96-97	175.5	1.47	12.25	2.379	-5.699
2-4-97-98	176.5	1.59	13.25	2.783	-5.426
2-4-98-99	177.5	1.31	10.92	2.995	-5.598
2-3-0-1	178.5	0.21	1.75	1.052	-6.144
2-3-1-2	179.5	1.14	9.50	3.416	-4.847
2-3-2-3	180.5	2.11	17.58	4.078	-4.458
2-3-3-4	181.5	1.30	10.83	3.033	-4.778
2-3-4-5	182.5	1.19	9.92	3.591	-4.999
2-3-5-6	183.5	1.20	10.00	3.594	-5.299
2-3-6-7	184.5	1.56	13.00	3.552	-5.218
2-3-7-8	185.5	1.86	15.50	3.742	-4.960
2-3-8-9	186.5	0.83	6.92	1.911	-5.359
2-3-9-10	187.5	0.77	6.42	1.486	-6.322
2-3-10-11	188.5	0.89	7.42	1.906	-6.024
2-3-11-12	189.5	1.57	13.08	3.349	-4.675
2-3-12-13	190.5	0.99	8.25	1.537	-5.532
2-3-13-14	191.5	1.02	8.50	2.331	-5.082
2-3-14-15	192.5	1.48	12.33	3.329	-4.292
2-3-15-16	193.5	1.72	14.33	3.449	-4.278
2-3-16-17	194.5	0.97	8.08	2.819	-4.545
2-3-17-18	195.5	1.05	8.75	3.054	-4.280
2-3-18-19	196.5	0.54	4.50	0.310	-5.403
2-3-19-20	197.5	0.67	5.58	2.533	-3.760
2-3-20-21	198.5	1.30	10.83	3.025	-2.631
2-3-21-22	199.5	1.15	9.58	2.545	-3.108
2-3-22-23	200.5	1.31	10.92	3.375	-2.822
2-3-23-24	201.5	1.52	12.67	3.569	-2.811
2-3-24-25	202.5	1.66	13.83	3.548	-2.899
2-3-25-26	203.5	1.88	15.67	3.570	-2.813



Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-3-26-27	204.5	2.01	16.75	3.579	-2.733
2-3-27-28	205.5	1.65	13.75	3.458	-3.132
2-3-28-29	206.5	1.65	13.75	3.459	-3.294
2-3-29-30	207.5	1.44	12.00	3.342	-3.246
2-3-30-31	208.5	1.29	10.75	3.392	-3.496
2-3-31-32	209.5	0.80	6.67	2.875	-4.261
2-3-32-33	210.5	0.69	5.75	2.902	-4.421
2-3-33-34	211.5	0.78	6.50	2.879	-4.194
2-3-34-35	212.5	1.13	9.42	3.411	-3.943
2-3-35-36	213.5	1.33	11.08	3.303	-3.889
2-3-36-37	214.5	1.42	11.83	3.241	-3.946
2-3-37-38	215.5	1.15	9.58	3.125	-4.277
2-3-38-39	216.5	0.87	7.25	2.869	-4.605
2-3-39-40	217.5	0.33	2.75	2.346	-5.320
2-3-40-41	218.5	0.08	0.67	-9999	-9999
2-3-41-42	219.5	0.90	7.50	3.218	-4.771
2-3-42-43	220.5	1.41	11.75	3.068	-4.988
2-3-43-44	221.5	1.03	8.58	2.814	-4.983
2-3-44-45	222.5	0.85	7.08	2.758	-4.999
2-3-45-46	223.5	1.30	10.83	2.872	-4.841
2-3-46-47	224.5	1.21	10.08	2.807	-4.835
2-3-47-48	225.5	1.21	10.08	2.910	-4.594
2-3-48-49	226.5	1.44	12.00	2.761	-5.023
2-3-49-50	227.5	1.59	13.25	3.030	-4.793
2-3-50-51	228.5	0.96	8.00	2.602	-5.274
2-3-51-52	229.5	1.65	13.75	2.913	-5.127
2-3-52-53	230.5	2.19	18.25	3.081	-4.798
2-3-53-54	231.5	1.77	14.75	2.888	-4.841
2-3-54-55	232.5	1.39	11.58	2.736	-5.245
2-3-55-56	233.5	1.34	11.17	2.750	-5.445
2-3-56-57	234.5	1.46	12.17	2.811	-5.537
2-3-57-58	235.5	1.69	14.08	2.951	-5.315
2-3-58-59	236.5	1.42	11.83	2.741	-5.500
2-3-59-60	237.5	1.18	9.83	2.573	-5.886
2-3-60-61	238.5	0.94	7.83	2.493	-6.071
2-3-61-62	239.5	0.61	5.08	2.471	-5.969
2-3-62-63	240.5	1.04	8.67	2.684	-6.004
2-3-63-64	241.5	0.26	2.17	2.399	-6.336
2-3-64-65	242.5	0.32	2.67	2.442	-6.324
2-3-65-66	243.5	1.34	11.17	2.509	-6.171
2-3-66-67	244.5	0.92	7.67	2.500	-6.082
2-3-67-68	245.5	0.71	5.92	2.264	-6.213
2-3-68-69	246.5	0.67	5.58	2.539	-5.981

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-3-69-70	247.5	0.32	2.67	2.455	-5.866
2-3-70-71	248.5	0.00	0.00	-9999	-9999
2-3-71-72	249.5	0.00	0.00	-9999	-9999
2-3-72-73	250.5	0.00	0.00	-9999	-9999
2-3-73-74	251.5	0.00	0.00	-9999	-9999
2-3-74-75	252.5	0.00	0.00	-9999	-9999
2-3-75-76	253.5	0.40	3.33	2.588	-5.125
2-3-76-77	254.5	1.80	15.00	2.777	-4.993
2-3-77-78	255.5	2.51	20.92	2.970	-4.256
2-3-78-79	256.5	3.63	30.25	3.139	-3.439
2-3-79-80	257.5	2.10	17.50	2.910	-4.057
2-3-80-81	258.5	1.87	15.58	2.734	-5.048
2-3-81-82	259.5	2.37	19.75	2.850	-4.567
2-3-82-83	260.5	2.88	24.00	2.793	-4.478
2-3-83-84	261.5	2.08	17.33	2.624	-4.689
2-3-84-85	262.5	1.64	13.67	2.610	-4.870
2-3-85-86	263.5	2.09	17.42	2.538	-5.207
2-3-86-87	264.5	1.54	12.83	2.487	-5.935
2-3-87-88	265.5	1.49	12.42	2.579	-5.501
2-3-88-89	266.5	1.35	11.25	2.457	-6.032
2-3-89-90	267.5	1.39	11.58	2.748	-5.420
2-3-90-91	268.5	0.58	4.83	2.600	-5.695
2-3-91-92	269.5	0.99	8.25	2.628	-5.712
2-3-92-93	270.5	2.01	16.75	2.749	-6.016
2-3-93-94	271.5	1.59	13.25	2.850	-5.438
2-3-94-95	272.5	2.26	18.83	2.730	-5.172
2-3-95-96	273.5	2.40	20.00	2.964	-5.204
2-3-96-97	274.5	2.57	21.42	2.928	-5.248
2-3-97-98	275.5	2.92	24.33	3.024	-5.082
2-3-98-99	276.5	3.22	26.83	2.953	-4.859
2-2-0-1	277.5	2.63	21.92	2.690	-5.213
2-2-1-2	278.5	1.62	13.50	2.312	-5.854
2-2-2-3	279.5	1.76	14.67	2.215	-6.824
2-2-3-4	280.5	2.26	18.83	2.402	-6.265
2-2-4-5	281.5	2.10	17.50	2.432	-6.311
2-2-5-6	282.5	1.27	10.58	2.152	-7.299
2-2-6-7	283.5	1.65	13.75	2.400	-6.898
2-2-7-8	284.5	1.91	15.92	2.350	-6.819
2-2-8-9	285.5	1.87	15.58	2.186	-6.428
2-2-9-10	286.5	0.57	4.75	1.422	-7.439
2-2-10-11	287.5	2.01	16.75	2.191	-6.899
2-2-11-12	288.5	1.68	14.00	2.023	-6.916
2-2-12-13	289.5	1.96	16.33	2.219	-6.856

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-2-13-14	290.5	1.48	12.33	2.248	-6.948
2-2-14-15	291.5	1.37	11.42	1.959	-7.410
2-2-15-16	292.5	1.38	11.50	2.147	-6.950
2-2-16-17	293.5	2.06	17.17	2.166	-6.898
2-2-17-18	294.5	2.12	17.67	2.171	-7.119
2-2-18-19	295.5	0.86	7.17	1.243	-7.639
2-2-19-20	296.5	1.17	9.75	2.007	-7.412
2-2-20-21	297.5	0.88	7.33	1.951	-7.277
2-2-21-22	298.5	1.52	12.67	2.308	-6.333
2-2-22-23	299.5	1.66	13.83	2.337	-6.339
2-2-23-24	300.5	1.54	12.83	2.151	-6.066
2-2-24-25	301.5	1.63	13.58	2.221	-5.600
2-2-25-26	302.5	1.59	13.25	2.100	-6.018
2-2-26-27	303.5	1.45	12.08	2.107	-5.342
2-2-27-28	304.5	2.76	23.00	2.612	-5.112
2-2-28-29	305.5	1.75	14.58	1.987	-5.674
2-2-29-30	306.5	2.39	19.92	2.644	-5.264
2-2-30-31	307.5	1.98	16.50	2.309	-5.557
2-2-31-32	308.5	1.96	16.33	2.426	-5.405
2-2-32-33	309.5	1.83	15.25	2.336	-5.795
2-2-33-34	310.5	1.76	14.67	2.318	-5.751
2-2-34-35	311.5	1.82	15.17	2.234	-6.295
2-2-35-36	312.5	1.72	14.33	2.531	-5.887
2-2-36-37	313.5	2.78	23.17	2.693	-5.949
2-2-37-38	314.5	2.58	21.50	2.263	-6.374
2-2-38-39	315.5	2.41	20.08	2.207	-6.329
2-2-39-40	316.5	1.96	16.33	1.837	-6.954
2-2-40-41	317.5	2.03	16.92	1.513	-7.031
2-2-41-42	318.5	1.63	13.58	1.375	-7.315
2-2-42-43	319.5	1.48	12.33	1.176	-7.913
2-2-43-44	320.5	1.36	11.33	1.232	-8.095
2-2-44-45	321.5	1.42	11.83	1.030	-8.556
2-2-45-46	322.5	1.14	9.50	1.088	-8.231
2-2-46-47	323.5	0.72	6.00	0.782	-8.311
2-2-47-48	324.5	0.82	6.83	0.486	-8.157
2-2-48-49	325.5	0.76	6.33	0.496	-8.434
2-2-49-50	326.5	0.66	5.50	0.408	-8.417
2-2-50-51	327.5	0.79	6.58	0.272	-8.450
2-2-51-52	328.5	0.70	5.83	0.450	-8.448
2-2-52-53	329.5	0.78	6.50	0.616	-8.334
2-2-53-54	330.5	0.44	3.67	0.162	-8.123
2-2-54-55	331.5	0.46	3.83	0.226	-8.306
2-2-55-56	332.5	0.57	4.75	0.474	-8.212

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-2-56-57	333.5	0.45	3.75	-0.041	-8.367
2-2-57-58	334.5	0.29	2.42	-0.331	-8.173
2-2-58-59	335.5	1.15	9.58	0.424	-8.256
2-2-59-60	336.5	0.82	6.83	0.266	-7.799
2-2-60-61	337.5	0.80	6.67	0.112	-8.101
2-2-61-62	338.5	1.56	13.00	0.360	-8.532
2-2-62-63	339.5	1.79	14.92	0.293	-9.180
2-2-63-64	340.5	0.56	4.67	-0.346	-8.967
2-2-64-65	341.5	0.75	6.25	0.348	-7.806
2-2-65-66	342.5	1.64	13.67	0.749	-8.060
2-2-66-67	343.5	1.56	13.00	0.649	-8.232
2-2-67-68	344.5	1.40	11.67	0.675	-8.572
2-2-68-69	345.5	1.88	15.67	0.797	-8.668
2-2-69-70	346.5	1.88	15.67	0.920	-8.149
2-2-70-71	347.5	1.72	14.33	0.921	-7.393
2-2-71-72	348.5	2.29	19.08	0.850	-6.876
2-2-72-73	349.5	1.77	14.75	0.560	-6.133
2-2-73-74	350.5	1.74	14.50	0.322	-5.538
2-2-74-75	351.5	1.75	14.58	-0.090	-5.588
2-2-75-76	352.5	1.93	16.08	-0.412	-5.491
2-2-76-77	353.5	2.03	16.92	-0.810	-5.608
2-2-77-78	354.5	2.01	16.75	-0.530	-5.060
2-2-78-79	355.5	1.63	13.58	-0.110	-5.195
2-2-79-80	356.5	1.66	13.83	0.461	-4.703
2-2-80-81	357.5	1.61	13.42	-0.097	-4.527
2-2-81-82	358.5	1.98	16.50	-0.651	-4.800
2-2-82-83	359.5	2.08	17.33	-0.862	-5.795
2-2-83-84	360.5	2.00	16.67	-0.276	-6.270
2-2-84-85	361.5	2.40	20.00	0.625	-5.549
2-2-85-86	362.5	1.81	15.08	0.638	-2.901
2-2-86-87	363.5	1.86	15.50	0.791	-2.927
2-2-87-88	364.5	1.81	15.08	0.590	-3.173
2-2-88-89	365.5	1.79	14.92	0.545	-3.155
2-2-89-90	366.5	1.92	16.00	1.260	-1.631
2-2-90-91	367.5	1.93	16.08	0.397	-3.583
2-2-91-92	368.5	2.02	16.83	0.288	-3.900
2-2-92-93	369.5	2.06	17.17	-0.074	-4.842
2-2-93-94	370.5	2.11	17.58	-0.069	-5.283
2-2-94-95	371.5	2.20	18.33	0.418	-5.053
2-2-95-96	372.5	2.17	18.08	0.913	-3.919
2-2-96-97	373.5	2.22	18.50	1.101	-4.110
2-2-97-98	374.5	2.28	19.00	1.563	-3.188
2-2-98-99	375.5	2.20	18.33	1.090	-3.423

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-2-99-100	376.5	2.30	19.17	0.920	-4.376
2-1-0-1	377.5	2.31	19.25	1.455	-3.386
2-1-1-2	378.5	2.11	17.58	1.619	-3.507
2-1-2-3	379.5	2.26	18.83	1.468	-3.607
2-1-3-4	380.5	2.20	18.33	1.648	-3.000
2-1-4-5	381.5	2.46	20.50	1.833	-2.658
2-1-5-6	382.5	2.14	17.83	1.614	-3.657
2-1-6-7	383.5	2.43	20.25	1.717	-3.166
2-1-7-8	384.5	2.24	18.67	1.720	-2.720
2-1-8-9	385.5	2.24	18.67	1.724	-2.388
2-1-9-10	386.5	2.36	19.67	1.712	-2.380
2-1-10-11	387.5	2.20	18.33	1.599	-2.642
2-1-11-12	388.5	2.11	17.58	1.411	-2.945
2-1-12-13	389.5	2.12	17.67	1.350	-3.056
2-1-13-14	390.5	2.03	16.92	1.335	-2.912
2-1-14-15	391.5	2.06	17.17	1.035	-3.208
2-1-15-16	392.5	2.06	17.17	1.108	-3.151
2-1-16-17	393.5	2.16	18.00	1.188	-2.980
2-1-17-18	394.5	2.04	17.00	1.126	-3.185
2-1-18-19	395.5	2.06	17.17	1.048	-3.221
2-1-19-20	396.5	2.05	17.08	0.795	-3.484
2-1-20-21	397.5	2.05	17.08	0.381	-3.995
2-1-21-22	398.5	1.98	16.50	0.597	-3.847
2-1-22-23	399.5	1.90	15.83	0.588	-3.995
2-1-23-24	400.5	1.90	15.83	0.560	-4.016
2-1-24-25	401.5	1.81	15.08	0.841	-4.103
2-1-25-26	402.5	2.10	17.50	1.265	-3.510
2-1-26-27	403.5	1.82	15.17	1.447	-3.676
2-1-27-28	404.5	1.81	15.08	2.036	-3.033
2-1-28-29	405.5	1.81	15.08	2.226	-2.547
2-1-29-30	406.5	1.90	15.83	2.287	-2.637
2-1-30-31	407.5	1.99	16.58	2.344	-2.409
2-1-31-32	408.5	1.96	16.33	2.421	-0.987
2-1-32-33	409.5	1.58	13.17	1.907	-0.716
2-1-33-34	410.5	1.88	15.67	1.912	-2.266
2-1-34-35	411.5	1.87	15.58	2.298	-1.778
2-1-35-36	412.5	1.80	15.00	2.165	-1.598
2-1-36-37	413.5	1.72	14.33	1.821	-1.548
2-1-37-38	414.5	1.68	14.00	1.779	-1.406
2-1-38-39	415.5	1.37	11.42	1.868	-1.318
2-1-39-40	416.5	1.53	12.75	1.920	-1.257
2-1-40-41	417.5	1.68	14.00	2.220	-1.631
2-1-41-42	418.5	1.84	15.33	2.007	-1.778

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-1-42-43	419.5	1.59	13.25	2.155	-1.703
2-1-43-44	420.5	1.51	12.58	2.449	-1.829
2-1-44-45	421.5	1.71	14.25	2.689	-1.084
2-1-45-46	422.5	1.65	13.75	2.233	-1.088
2-1-46-47	423.5	1.50	12.50	1.665	-1.303
2-1-47-48	424.5	1.37	11.42	1.520	-1.926
2-1-48-49	425.5	1.56	13.00	0.932	-2.840
2-1-49-50	426.5	1.49	12.42	1.773	-1.647
2-1-50-51	427.5	1.69	14.08	1.791	-1.600
2-1-51-52	428.5	1.72	14.33	1.685	-2.260
2-1-52-53	429.5	1.54	12.83	2.107	-2.028
2-1-53-54	430.5	2.32	19.33	3.062	-1.266
2-1-54-55	431.5	1.78	14.83	3.120	-2.189
2-1-55-56	432.5	1.92	16.00	3.190	-1.432
2-1-56-57	433.5	2.07	17.25	2.860	-1.080
2-1-57-58	434.5	1.97	16.42	2.546	-0.943
2-1-58-59	435.5	1.83	15.25	2.579	-1.097
2-1-59-60	436.5	1.59	13.25	2.597	-1.484
2-1-60-61	437.5	1.50	12.50	2.619	-1.376
2-1-61-62	438.5	1.41	11.75	2.254	-1.778
2-1-62-63	439.5	2.59	21.58	1.979	-0.446
2-1-63-64	440.5	2.17	18.08	2.520	-0.689
2-1-64-65	441.5	2.29	19.08	1.805	-0.691
2-1-65-66	442.5	2.48	20.67	2.564	-1.220
2-1-66-67	443.5	2.02	16.83	2.651	-1.587
2-1-67-68	444.5	2.01	16.75	2.730	-1.492
2-1-68-69	445.5	2.21	18.42	2.694	-0.208
2-1-69-70	446.5	2.09	17.42	2.431	0.319
2-1-70-71	447.5	1.82	15.17	2.177	-0.408
2-1-71-72	448.5	1.79	14.92	1.682	0.396
2-1-72-73	449.5	3.15	26.25	1.306	0.802
2-1-73-74	450.5	2.60	21.67	1.094	0.163
2-1-74-75	451.5	2.62	21.83	1.279	0.729
2-1-75-76	452.5	2.38	19.83	1.072	0.405
2-1-76-77	453.5	3.34	27.83	1.266	0.653
2-1-77-78	454.5	2.56	21.33	0.954	0.663
2-1-78-79	455.5	1.84	15.33	0.719	-0.297
2-1-79-80	456.5	2.38	19.83	0.744	-0.510
2-1-80-81	457.5	2.39	19.92	1.218	-1.069
2-1-81-82	458.5	1.85	15.42	1.400	-0.875
2-1-82-83	459.5	3.12	26.00	1.536	-1.063
2-1-83-84	460.5	1.38	11.50	1.365	-0.947
2-1-84-85	461.5	2.40	20.00	1.498	-1.123

Number	Depth (cm)	TIC (wt % C)	CaCO <sub>3</sub> (%)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
2-1-85-86	462.5	3.69	30.75	1.508	-0.940
2-1-86-87	463.5	2.71	22.58	1.389	-1.063
2-1-87-88	464.5	2.89	24.08	1.273	-0.670
2-1-88-89	465.5	1.76	14.67	1.173	-1.567
2-1-89-90	466.5	2.98	24.83	1.349	-1.329
2-1-90-91	467.5	2.91	24.25	1.415	-1.369
2-1-91-92	468.5	3.43	28.58	1.342	-0.775
2-1-92-93	469.5	0.28	2.33	0.157	-3.547
2-1-93-94	470.5	0.83	6.92	0.836	-1.713
2-1-94-95	471.5	1.37	11.42	0.975	-1.108
2-1-95-96	472.5	1.41	11.75	1.198	-0.823
2-1-96-97	473.5	2.00	16.67	1.558	-0.449
2-1-97-98	474.5	1.07	8.92	1.699	-1.200

### A3.3 Piston Core WLC-001

Table A3-4 Geochemical and isotopic results of bulk sediments from piston core WLC001

Section	Depth (cm)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)	Section	Depth (cm)	δ <sup>13</sup> C (‰)	δ <sup>18</sup> O (‰)
1-6	35.5	2.503	-4.457	1-6	60.5	3.321	-4.484
1-6	36.5	2.369	-4.894	1-5	61.5	3.578	-4.147
1-6	37.5	2.256	-5.117	1-5	62.5	3.564	-3.687
1-6	38.5	2.051	-5.432	1-5	63.5	3.530	-3.955
1-6	39.5	1.798	-6.196	1-5	64.5	3.679	-4.078
1-6	40.5	1.865	-6.171	1-5	65.5	3.680	-4.210
1-6	41.5	0.929	-6.630	1-5	66.5	3.724	-4.322
1-6	42.5	-0.489	-7.473	1-5	67.5	3.350	-4.254
1-6	43.5	1.576	-6.348	1-5	68.5	3.006	-4.606
1-6	44.5	1.828	-5.648	1-5	69.5	3.078	-4.985
1-6	45.5	2.344	-5.188	1-5	70.5	3.244	-4.768
1-6	46.5	2.422	-5.034	1-5	71.5	2.742	-5.292
1-6	47.5	2.086	-4.683	1-5	72.5	3.053	-5.030
1-6	48.5	2.804	-4.018	1-5	73.5	-6.176	-9.596
1-6	49.5	2.476	-4.614	1-5	74.5	3.026	-3.945
1-6	50.5	2.159	-5.627	1-5	75.5	2.893	-4.693
1-6	51.5	1.116	-5.964	1-5	76.5	3.260	-4.767
1-6	52.5	-4.493	-7.481	1-5	77.5	3.490	-4.599
1-6	53.5	-1.287	-7.117	1-5	78.5	3.504	-4.727
1-6	54.5	2.075	-5.217	1-5	79.5	3.709	-4.762
1-6	55.5	2.113	-4.979	1-5	80.5	3.463	-5.056
1-6	56.5	3.033	-4.561	1-5	81.5	3.447	-4.852
1-6	57.5	3.198	-4.183	1-5	82.5	3.582	-4.802
1-6	58.5	0.681	-5.599	1-5	83.5	3.936	-4.100
1-6	59.5	1.111	-5.369	1-5	84.5	3.868	-3.797

Note: Missing values are represented by -9999.