

APPENDIX 8: He-LACE data for late calcite samples from Sellafield, Dounreay and Cloud Hill

Site	Borehole	Sample No.	Calcite Crystal	Analysis No.	Depth (m)	Depth Ref.	Calcite Generation	d 13C PDB	d 18O PDB	Method:	He-
										LACE/ Microdrill	Mount Medium
South Derbyshire											
Cloud Hill	n/a	MPLK174	K174-PO1-Roi-1	1	10	mbOD	FC2 early part	-6.47	-13.83	He-LACE	M70 alloy
Cloud Hill	n/a	MPLK174	K174-PO1-Roi-1	2	10	mbOD	FC2 later part	-3.91	-13.32	He-LACE	M70 alloy
Cloud Hill	n/a	MPLK174	K174-PO1-Roi-1	3	10	mbOD	FC3 average	-0.85	-2.96	He-LACE	M70 alloy
Cloud Hill	n/a	MPLK174	K174-PO1-Roi-3	1	10	mbOD	FC1	-6.89	-16.62	He-LACE	M70 alloy
Cloud Hill	n/a	MPLK174	K174-PO1-Roi-3	2	10	mbOD	FC2 later part	-4.96	-12.87	He-LACE	M70 alloy
Cloud Hill	n/a	MPLK174	K174-PO1-Roi-3	3	10	mbOD	FC4 average	-7.49	-8.15	He-LACE	M70 alloy
Sellafield RCF Area											
Sellafield	PRZ2	D280	D280-PO2-Roi--2	1	147	mbOD		-3.74	-6.30	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-Roi--2	2	147	mbOD		-3.98	-8.46	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-Roi--2	3	147	mbOD		2.35	-3.26	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-Roi--2	4	147	mbOD		-5.44	-1.87	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-Roi--2	5	147	mbOD		-3.72	2.35	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-Roi--2	7	147	mbOD		-4.62	-7.67	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-PO2-Roi--4	1	147	mbOD		-6.74	-5.89	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-PO2-Roi--4	2	147	mbOD		-5.38	-6.39	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-PO2-Roi--4	3	147	mbOD		-5.58	-3.44	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-PO2-Roi--4	4	147	mbOD		-7.05	-5.60	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-PO2-Roi--4	5	147	mbOD		-3.42	-6.44	He-LACE	M70 alloy
Sellafield	PRZ2	D280	D280-PO2-PO2-Roi--4	6	147	mbOD		-2.26	-7.18	He-LACE	M70 alloy
Sellafield	RCF1	C719	C719/1	1A	389.71	mbOD		-6.20	-18.83	He-LACE	Plaster
Sellafield	RCF1	C719	C719/1	1B	389.71	mbOD		-5.31	-14.61	He-LACE	Plaster
Sellafield	RCF1	C719	C719/1	1C	389.71	mbOD		-4.48	-11.63	He-LACE	Plaster
Sellafield	RCF1	C719	C719/1	1D	389.71	mbOD		-4.24	-11.62	He-LACE	Plaster
Sellafield	RCF1	C719	C719/2	2A	389.71	mbOD		-6.30	-16.86	He-LACE	Plaster
Sellafield	RCF1	C719	C719/2	2B	389.71	mbOD		-6.40	-17.39	He-LACE	Plaster
Sellafield	RCF1	C719	C719/2	2C	389.71	mbOD		-6.59	-11.93	He-LACE	Plaster
Sellafield	RCF1	C719	C719/2	2D	389.71	mbOD		-6.96	-11.51	He-LACE	Plaster
Sellafield	RCF1	C719	C719/3	3A	389.71	mbOD		-6.82	-16.50	He-LACE	Plaster
Sellafield	RCF1	C719	C719/3	3B	389.71	mbOD		-6.81	-13.05	He-LACE	Plaster
Sellafield	RCF1	C719	C719/3	3C	389.71	mbOD		-6.54	-9.60	He-LACE	Plaster
Sellafield	RCF1	C719	C719/4	4A	389.71	mbOD		-7.18	-9.32	He-LACE	Plaster
Sellafield	RCF1	C719	C719/4	4B	389.71	mbOD		-6.83	-10.06	He-LACE	Plaster
Sellafield	RCF1	C719	C719/4	4C	389.71	mbOD		-6.62	-10.07	He-LACE	Plaster
Sellafield	RCF1	C719	C719/4	4D	389.71	mbOD		-6.99	-9.98	He-LACE	Plaster
Sellafield	RCF1	C719	C719/5	5A	389.71	mbOD		-7.00	-11.24	He-LACE	Plaster
Sellafield	RCF1	C719	C719/5	5B	389.71	mbOD		-6.44	-10.47	He-LACE	Plaster
Sellafield	RCF1	C719	C719/6	6A	389.71	mbOD		-5.87	-9.35	He-LACE	Plaster
Sellafield	RCF1	C719	C719/7	7A	389.71	mbOD		-5.76	-8.58	He-LACE	Plaster
Sellafield	RCF1	C719	C719/7	7B	389.71	mbOD		-7.07	-11.70	He-LACE	Plaster
Sellafield	RCF1	C719	C719/7	7C	389.71	mbOD		-6.28	-9.29	He-LACE	Plaster
Sellafield	RCF1	C719	C719/7	7D	389.71	mbOD		-5.71	-9.20	He-LACE	Plaster
Sellafield	RCF1	C719	C719/7	7E	389.71	mbOD		-6.75	-9.35	He-LACE	Plaster
Sellafield	RCF1	C719	C719/7	7G	389.71	mbOD		-5.96	-9.89	He-LACE	Plaster
Sellafield	PRZ3	D329	D329-PO1 Roi-1	1	396.48	mbOD		-5.86	-10.77	He-LACE	M70 alloy
Sellafield	PRZ3	D329	D329-PO1 Roi-1	2	396.48	mbOD		-5.18	-10.97	He-LACE	M70 alloy
Sellafield	PRZ3	D329	D329-PO1 Roi-1	3	396.48	mbOD		-6.29	-10.27	He-LACE	M70 alloy
Sellafield	PRZ3	D329	D329-PO1 Roi-1	4	396.48	mbOD		-5.56	-10.41	He-LACE	M70 alloy
Sellafield	PRZ3	D329	D329-PO1 Roi-1	5	396.48	mbOD		-5.92	-9.09	He-LACE	M70 alloy
Sellafield	PRZ3	D329	D329-PO1 Roi-1	6	396.48	mbOD		-6.64	-9.11	He-LACE	M70 alloy
Sellafield	PRZ3	D329	D329-PO1 Roi-1	7	396.48	mbOD		-8.93	-8.35	He-LACE	M70 alloy
Sellafield	PRZ3	D329	D329-PO1 Roi-1	8	396.48	mbOD		-9.20	-3.34	He-LACE	M70 alloy
Sellafield	PRZ3	D329	D329-PO1 Roi-1	9	396.48	mbOD		-7.48	-8.65	He-LACE	M70 alloy
Sellafield	PRZ2	D311	D311-PO5-Roi-1	1	413.1	mbOD		0.29	-6.40	He-LACE	M70 alloy
Sellafield	PRZ2	D311	D311-PO5-Roi-1	2	413.1	mbOD		-5.52	-11.34	He-LACE	M70 alloy
Sellafield	PRZ2	D311	D311-PO5-Roi-1	3	413.1	mbOD		-7.46	-8.93	He-LACE	M70 alloy
Sellafield	PRZ2	D311	D311-PO5-Roi-1	4	413.1	mbOD		-5.54	-10.81	He-LACE	M70 alloy
Sellafield	RCF1	C742	C742/2	2A	690.16	mbOD		-9.29	-22.23	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2B	690.16	mbOD		-8.68	-12.01	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2C	690.16	mbOD		-5.17	-13.83	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2D	690.16	mbOD		-6.56	-14.09	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2E	690.16	mbOD		-8.60	-14.12	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2F	690.16	mbOD		-4.93	-13.89	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2G	690.16	mbOD		-7.67	-14.79	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2H	690.16	mbOD		-5.35	-13.48	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2I	690.16	mbOD		-5.67	-13.68	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2J	690.16	mbOD		-7.80	-12.31	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2K	690.16	mbOD		-9.06	-13.90	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2L	690.16	mbOD		-7.16	-14.12	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2M	690.16	mbOD		-8.73	-12.52	He-LACE	Plaster
Sellafield	RCF1	C742	C742/2	2N	690.16	mbOD		-7.74	-16.62	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4A	690.16	mbOD		-9.06	-17.96	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4B	690.16	mbOD		-8.85	-21.88	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4C	690.16	mbOD		-6.11	-13.63	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4D	690.16	mbOD		-8.33	-15.69	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4E	690.16	mbOD		-9.32	-14.67	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4F	690.16	mbOD		-9.24	-14.48	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4G	690.16	mbOD		-8.13	-13.38	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4H	690.16	mbOD		-8.93	-13.44	He-LACE	Plaster
Sellafield	RCF1	C742	C742/4	4I	690.16	mbOD		-9.53	-13.73	He-LACE	Plaster
Sellafield	RCF1	C742	C742/5	5A	690.16	mbOD		-9.05	-20.55	He-LACE	Plaster
Sellafield	RCF1	C742	C742/5	5B	690.16	mbOD		-9.65	-19.46	He-LACE	Plaster
Sellafield	RCF1	C742	C742/5	5C	690.16	mbOD		-7.72	-15.18	He-LACE	Plaster
Sellafield	RCF1	C742	C742/5	5D	690.16	mbOD		-8.91	-13.12	He-LACE	Plaster
Sellafield	RCF1	C742	C742/5	5E	690.16	mbOD		-5.86	-14.96	He-LACE	Plaster

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Sellafield	RCF1	C742	C742/5	5F	690.16	mbOD	-7.29	-15.30	He-LACE	Plaster
Sellafield	RCF1	C742	C742/5	5H	690.16	mbOD	-8.63	-12.39	He-LACE	Plaster
Sellafield	RCF1	C742	C742/5	5I	690.16	mbOD	-8.15	-14.65	He-LACE	Plaster
Sellafield	RCF1	C759	C759/5	10	938	mbOD	-9.65	-9.64	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	11	938	mbOD	-8.68	-10.50	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	12	938	mbOD	-9.61	-7.40	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	2	938	mbOD	-8.80	-9.20	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	3	938	mbOD	-10.03	-9.99	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	4	938	mbOD	-10.40	-10.70	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	5	938	mbOD	-10.33	-11.21	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	6	938	mbOD	-7.24	-15.73	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	7	938	mbOD	-9.33	-10.79	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	8	938	mbOD	-8.96	-10.08	MICRODRILL	Plaster
Sellafield	RCF1	C759	C759/5	9	938	mbOD	-9.11	-10.34	MICRODRILL	Plaster
Sellafield	RCF1	D759	D759/2	2F	938	mbOD	-8.70	-15.44	He-LACE	Plaster
Sellafield	RCF1	D759	D759/2	2E	938	mbOD	-10.69	-13.89	He-LACE	Plaster
Sellafield	RCF1	D759	D759/2	2C	938	mbOD	-11.59	-11.23	He-LACE	Plaster
Sellafield	RCF1	D759	D759/2	2A	938	mbOD	-10.84	-12.15	He-LACE	Plaster
Sellafield	RCF1	D759	D759/2	2B	938	mbOD	-10.00	-15.17	He-LACE	Plaster
Sellafield	RCF1	D759	D759/2	2G	938	mbOD	-9.97	-14.61	He-LACE	Plaster
Sellafield	RCF1	D759	D759/4	4E	938	mbOD	-9.02	-13.20	He-LACE	Plaster
Sellafield	RCF1	D759	D759/4	4C	938	mbOD	-9.18	-13.30	He-LACE	Plaster
Sellafield	RCF1	D759	D759/4	4B	938	mbOD	-8.79	-16.93	He-LACE	Plaster
Sellafield	RCF1	D759	D759/4	4A	938	mbOD	-8.92	-16.37	He-LACE	Plaster
Sellafield	RCF1	D759	D759/4	4D	938	mbOD	-9.22	-12.86	He-LACE	Plaster
Sellafield	RCF1	D759	D759/4	4C	938	mbOD	-9.18	-13.30	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AJ	938	mbOD	-9.18	-17.97	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AJ	938	mbOD	-9.40	-11.63	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AC	938	mbOD	-10.96	-10.56	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AB	938	mbOD	-10.82	-11.42	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5S	938	mbOD	-10.99	-12.07	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AD	938	mbOD	-10.61	-12.10	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AE	938	mbOD	-10.40	-8.39	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AF	938	mbOD	-10.21	-12.60	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AG	938	mbOD	-10.07	-11.39	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AH	938	mbOD	-9.98	-11.35	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5B	938	mbOD	-10.26	-12.75	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5L	938	mbOD	-9.95	-16.04	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5P	938	mbOD	-11.12	-13.22	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5Q	938	mbOD	-11.20	-12.22	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5S	938	mbOD	-10.99	-12.07	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5T	938	mbOD	-10.45	-12.71	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5V	938	mbOD	-10.61	-12.28	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5W	938	mbOD	-11.15	-11.39	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5X	938	mbOD	-10.77	-11.79	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5Y	938	mbOD	-10.64	-13.32	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5Z	938	mbOD	-10.68	-12.27	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AA	938	mbOD	-10.80	-13.44	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5A	938	mbOD	-10.17	-15.81	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5B	938	mbOD	-10.26	-12.75	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5C	938	mbOD	-10.14	-11.97	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5E	938	mbOD	-7.63	-13.09	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5F	938	mbOD	-9.66	-18.88	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5G	938	mbOD	-10.06	-14.21	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5H	938	mbOD	-10.16	-12.93	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5I	938	mbOD	-11.03	-13.88	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5J	938	mbOD	-10.69	-14.12	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5K	938	mbOD	-10.75	-16.06	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5M	938	mbOD	-9.61	-16.29	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5N	938	mbOD	-9.54	-14.58	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5O	938	mbOD	-10.11	-13.79	He-LACE	Plaster
Sellafield	RCF1	D759	D759/5	5AK	938	mbOD	-10.72	-10.11	He-LACE	Plaster
<b>Sellafield Fleming Hall Fault Zone</b>										
Sellafield	BH10	D750	D750/1	10	635	mbOD	-8.39	-7.21	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/1	3	635	mbOD	-7.20	-8.85	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/1	4	635	mbOD	-9.84	-8.05	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/1	5	635	mbOD	-9.56	-10.23	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/1	6	635	mbOD	-12.12	-7.69	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/1	8	635	mbOD	-7.63	-8.05	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/1	9	635	mbOD	-7.70	-7.87	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	1	635	mbOD	-7.25	-8.57	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	2	635	mbOD	-8.28	-8.37	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	3	635	mbOD	-8.21	-8.37	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	4	635	mbOD	-8.26	-8.24	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	5	635	mbOD	-7.61	-8.01	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	6	635	mbOD	-9.64	-7.55	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	7	635	mbOD	-11.15	-7.22	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	8A	635	mbOD	-10.01	-8.44	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	8B	635	mbOD	-10.75	-8.75	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	9	635	mbOD	-11.81	-7.84	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	CHIPA	635	mbOD	-8.60	-7.89	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	CHIPB	635	mbOD	-8.61	-8.33	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/2	CHIPC	635	mbOD	-8.39	-8.00	MICRODRILL	Plaster
Sellafield	BH10	D750	D750/1	K	635	mbOD	-11.47	-14.68	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	W	635	mbOD	-12.40	-8.33	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AV	635	mbOD	-12.40	-3.11	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AU	635	mbOD	-12.19	-3.47	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AT	635	mbOD	-9.16	-4.70	He-LACE	Plaster

APPENDIX 8: He-LACE data for late calcite samples from Sellafield, Dounreay and Cloud Hill

Sellafield	BH10	D750	D750/1	AS	635 mbOD	-9.13	-6.88	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AR	635 mbOD	-8.06	-4.94	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AQ	635 mbOD	-8.04	-5.28	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AP	635 mbOD	-9.71	-2.40	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AO	635 mbOD	-8.23	-2.70	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AN	635 mbOD	-3.59	-5.42	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AM	635 mbOD	-3.81	-5.19	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AL	635 mbOD	-4.37	-4.69	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AK	635 mbOD	-9.12	-3.26	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AJ	635 mbOD	-8.32	-2.91	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AI	635 mbOD	-8.08	-4.32	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	P	635 mbOD	-8.61	-8.63	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AH	635 mbOD	-9.88	-2.10	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AG	635 mbOD	-12.59	-2.35	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AF	635 mbOD	-12.05	-3.57	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AE	635 mbOD	-12.01	-2.32	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AD	635 mbOD	-12.23	-1.95	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	J	635 mbOD	-8.78	-10.17	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	I	635 mbOD	-9.73	-8.53	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	O	635 mbOD	-9.44	-7.63	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	P	635 mbOD	-8.61	-8.63	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	S	635 mbOD	-8.85	-8.97	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	T	635 mbOD	-9.25	-8.99	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	U	635 mbOD	-10.12	-10.89	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	V	635 mbOD	-9.28	-13.01	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AZ	635 mbOD	-3.54	-6.74	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AN	635 mbOD	-3.59	-5.42	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BI	635 mbOD	-8.33	-4.36	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BJ	635 mbOD	-9.39	-3.58	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BK	635 mbOD	-9.73	-3.49	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BL	635 mbOD	-8.86	-4.34	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BM	635 mbOD	-7.42	-3.22	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BN	635 mbOD	-9.24	-3.56	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AP	635 mbOD	-9.71	-2.40	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BB	635 mbOD	-8.96	-3.75	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BO	635 mbOD	-7.76	-3.65	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BP	635 mbOD	-8.40	-3.76	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BQ	635 mbOD	-8.95	-2.73	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BR	635 mbOD	-10.27	-3.03	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BS	635 mbOD	-12.00	-4.66	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	N	635 mbOD	-10.18	-16.38	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BW	635 mbOD	-8.77	-3.59	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BV	635 mbOD	-8.66	-3.14	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BU	635 mbOD	-8.57	-3.32	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BT	635 mbOD	-8.49	-3.61	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AS	635 mbOD	-9.13	-6.88	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	CB	635 mbOD	-9.48	-5.50	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	CA	635 mbOD	-11.58	-3.79	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BZ	635 mbOD	-11.38	-2.36	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BY	635 mbOD	-12.12	-3.26	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BX	635 mbOD	-11.82	-3.37	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AD	635 mbOD	-12.23	-1.95	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AC	635 mbOD	-10.54	-2.28	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	Y	635 mbOD	-11.44	-7.49	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	X	635 mbOD	-10.91	-11.82	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AE	635 mbOD	-12.01	-2.32	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AA	635 mbOD	-12.52	-6.68	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	Z	635 mbOD	-12.25	-7.72	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AB	635 mbOD	-11.52	-3.68	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	R	635 mbOD	-10.69	-11.96	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	Q	635 mbOD	-9.97	-13.07	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	E	635 mbOD	-10.79	-19.64	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	F	635 mbOD	-10.86	-13.27	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	K	635 mbOD	-11.47	-14.68	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BC	635 mbOD	-11.15	-5.43	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BG	635 mbOD	-10.41	-2.94	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	L	635 mbOD	-11.26	-15.79	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BD	635 mbOD	-10.84	-6.63	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	C	635 mbOD	-2.83	-12.24	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	D	635 mbOD	-2.28	-12.31	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	M	635 mbOD	-11.09	-15.09	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AW	635 mbOD	-12.53	-3.86	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AX	635 mbOD	-11.93	-3.98	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AY	635 mbOD	-9.57	-7.57	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	AZ	635 mbOD	-3.54	-6.74	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BA	635 mbOD	-10.05	-10.53	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BB	635 mbOD	-8.96	-3.75	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BE	635 mbOD	-11.91	-4.31	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BF	635 mbOD	-9.40	-13.66	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	BH	635 mbOD	-8.77	-4.77	He-LACE	Plaster
Sellafield	BH10	D750	D750/1	CC	635 mbOD	-2.95	-6.68	He-LACE	Plaster
Sellafield	BH10	D750	D750/2	A	635 mbOD	-5.50	-5.52	He-LACE	Plaster
Sellafield	BH10	D750	D750/2	B	635 mbOD	-8.44	-7.73	He-LACE	Plaster
Sellafield	BH10	D750	D750/2	C	635 mbOD	-11.95	-5.36	He-LACE	Plaster
Sellafield	BH10	D750	D750/2	D	635 mbOD	-12.18	-4.91	He-LACE	Plaster
Sellafield	BH10	D750	D750/2	E	635 mbOD	-10.74	-2.56	He-LACE	Plaster
Sellafield	BH10	D750	D750/2	F	635 mbOD	-10.83	-13.22	He-LACE	Plaster
Sellafield	BH10	D750	D750/2	G	635 mbOD	-8.99	-6.90	He-LACE	Plaster
Sellafield	BH10	D750	D750/2	H	635 mbOD	-12.76	-12.51	He-LACE	Plaster

APPENDIX 8: He-LACE data for late calcite samples from Sellafield, Dounreay and Cloud Hill

Sellafield	BH10	<b>D750</b>	D750/2	I	635 mbOD	-11.99	-6.87	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	J	635 mbOD	-7.26	-8.05	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	K	635 mbOD	-8.51	-6.25	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	L	635 mbOD	-9.62	-4.34	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	M	635 mbOD	-11.00	-11.97	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	N	635 mbOD	-11.32	-5.64	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	O	635 mbOD	-10.12	-3.19	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	P	635 mbOD	-10.48	-4.49	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	Q	635 mbOD	-11.38	-6.38	He-LACE	Plaster
Sellafield	BH10	<b>D750</b>	D750/2	R	635 mbOD	-9.05	-6.24	He-LACE	Plaster

*Dounreay area*

Dounreay	NDN1	<b>MPLH824</b>	H824-P03-Roi-5	1	83.68 mbRT	6.94	-13.85	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH824</b>	H824-P03-Roi-5	2	83.68 mbRT	5.01	-8.76	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH824</b>	H824-P03-Roi-5	3	83.68 mbRT	6.57	0.17	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH824</b>	H824-P03-Roi-5	4	83.68 mbRT	4.51	-9.25	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH824</b>	H824-PO3-R2	1	83.68 mbRT	4.62	-13.62	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH824</b>	H824-PO3-R2	2	83.68 mbRT	4.12	-10.88	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-2	1	460.79 mbRT	-6.40	-17.08	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-2	2	460.79 mbRT	-4.82	-11.96	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-2	3	460.79 mbRT	-6.38	-11.69	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-1	1	460.79 mbRT	-4.75	-13.93	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-1	2	460.79 mbRT	-4.70	-6.21	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-1	3	460.79 mbRT	-5.80	-10.48	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-1	4	460.79 mbRT	-5.57	-11.16	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-1	5	460.79 mbRT	-6.22	-19.45	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH848</b>	H848-PO6-Roi-1	7	460.79 mbRT	-4.65	-14.12	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH882</b>	H882-PO4-Roi-3	1	1172.09 mbRT	-5.29	-13.39	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH882</b>	H882-PO4-Roi-3	3	1172.09 mbRT	-4.99	-12.99	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH882</b>	H882-PO4-Roi-3	4	1172.09 mbRT	-4.90	-12.72	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH882</b>	H882-PO4-Roi-3	5	1172.09 mbRT	-5.62	-12.85	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH882</b>	H882-PO4-Roi-3	6	1172.09 mbRT	-6.42	-10.53	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH882</b>	H882-PO4-Roi-3	8	1172.09 mbRT	-4.70	-12.35	He-LACE	M70 alloy
Dounreay	NDN1	<b>MPLH882</b>	H882-PO4-Roi-3	9	1172.09 mbRT	-5.25	-2.28	He-LACE	M70 alloy