

Sample	SiO₂	2 sd	TiO₂	2sd	Al₂O₃	2 sd
KHO3-2	40.231	0.351	0.001	0.004	0.012	0.024
KHO3-3	40.699	0.637	0.000	0.000	0.018	0.018
KHO3-4	40.350	0.206	0.004	0.020	0.024	0.025
KHO3-5	41.108	0.704	0.002	0.007	0.022	0.017
KHO3-6	40.867	0.451	0.005	0.011	0.012	0.014
KHO3-7	48.875	0.484	0.001	0.006	0.027	0.012
KHO3-10	41.352	0.066	0.003	0.006	0.043	0.026
KHO3-11	39.687	0.648	0.003	0.010	0.015	0.020
KHO3-14	39.826	0.704	0.009	0.018	0.024	0.013
KHO3-15	41.694	0.361	0.004	0.016	0.040	0.023
KHO3-16	41.033	0.408	0.004	0.014	0.033	0.027
KHO3-17	41.139	0.219	0.007	0.011	0.014	0.019
KHO3-21	40.387	0.846	0.008	0.013	0.014	0.024
KHO3-22	40.546	1.718	0.003	0.006	0.032	0.021
KHO3-23	42.126	0.298	0.008	0.010	0.021	0.018
KHO3-24	40.981	0.783	0.003	0.008	0.020	0.017
KHO3-25	41.270	0.848	0.001	0.003	0.015	0.016
KHO3-27	39.726	-	0.006	-	0.020	-
KH96-1	41.293	0.296	0.006	0.010	0.020	0.010
KH96-2	40.881	0.978	0.007	0.014	0.013	0.025
KH96-3	40.516	0.154	0.000	0.020	0.009	0.007
KH96-8	42.117	0.172	0.011	0.020	0.044	0.017
KH96-9	41.778	0.313	0.004	0.013	0.015	0.013
KH96-10b	40.378	0.093	0.005	0.014	0.019	0.011
KH96-12	40.386	1.214	0.004	0.013	0.018	0.022
KH96-13	40.042	0.120	0.001	0.005	0.014	0.021
KH96-14	41.459	0.544	0.005	0.015	0.020	0.017
KH96-18	40.868	0.797	0.003	0.008	0.017	0.016
KH96-20	40.999	0.407	0.003	0.009	0.021	0.018
KH96-21	41.811	0.725	0.006	0.011	0.017	0.024
KH96-22	41.465	0.117	0.016	0.033	0.029	0.017
KH96-23	41.515	0.322	0.002	0.008	0.022	0.016
KH96-24	40.093	0.470	0.007	0.014	0.017	0.012
KH1(b)	40.594		0.268	0.008	0.024	0.013
KLB 8312	40.497		0.422	0.006	0.042	0.017

Sample	Fe₂O₃	2 sd	MnO	2 sd	MgO	2 sd
KHO3-2	10.548	0.016	0.140	0.014	48.841	0.153
KHO3-3	10.827	0.062	0.140	0.008	48.913	0.326
KHO3-4	11.928	0.030	0.144	0.016	48.173	0.377
KHO3-5	11.747	0.078	0.151	0.015	48.551	0.213
KHO3-6	10.548	0.055	0.136	0.012	48.716	0.167
KHO3-7	10.778	0.047	0.137	0.007	48.875	0.484
KHO3-10	11.256	0.037	0.149	0.020	48.719	0.274
KHO3-11	11.502	0.079	0.150	0.015	48.574	0.247
KHO3-14	12.449	0.035	0.160	0.022	48.019	0.400
KHO3-15	10.268	0.053	0.133	0.028	49.237	0.365
KHO3-16	9.761	0.044	0.123	0.014	49.905	0.155
KHO3-17	12.310	0.041	0.155	0.015	47.950	0.101
KHO3-21	12.477	0.073	0.155	0.025	48.157	0.295
KHO3-22	11.724	0.083	0.150	0.015	48.382	0.380
KHO3-23	11.254	0.135	0.146	0.009	46.533	0.500
KHO3-24	11.445	0.056	0.149	0.015	48.953	0.259
KHO3-25	10.534	0.053	0.124	0.013	49.227	0.273
KHO3-27	11.966	-	0.153	-	47.624	-
KH96-1	11.071	-	0.143	0.027	48.635	0.227
KH96-2	10.078	0.044	0.131	0.017	49.041	0.197
KH96-3	15.207	0.126	0.191	0.023	45.938	0.317
KH96-8	10.912	0.192	0.147	0.012	49.214	0.229
KH96-9	11.490	0.123	0.144	0.018	48.893	0.340
KH96-10b	12.311	0.152	0.146	0.009	47.980	0.251
KH96-12	11.779	0.070	0.139	0.032	48.750	0.307
KH96-13	11.642	0.073	0.138	0.003	49.098	0.173
KH96-14	12.314	0.117	0.155	0.019	47.816	0.357
KH96-18	11.637	0.133	0.144	0.018	48.139	0.692
KH96-20	11.829	0.097	0.147	0.020	47.802	0.499
KH96-21	10.032	0.117	0.127	0.011	49.171	1.220
KH96-22	11.789	0.053	0.147	0.009	47.919	0.337
KH96-23	11.172	0.169	0.141	0.023	48.417	0.275
KH96-24	12.942	0.181	0.166	0.018	47.598	0.320
KH1(b)	11.508	0.151	0.244	0.153	0.001	48.920
KLB 8312	11.119	0.110	0.231	0.142	0.001	49.535

Sample	CaO	2 sd	Na₂O	2 sd	K₂O	2 sd
KHO3-2	0.073	0.012	0.003	0.005	0.004	0.009
KHO3-3	0.076	0.014	0.008	0.016	0.002	0.005
KHO3-4	0.080	0.017	0.006	0.013	0.001	0.002
KHO3-5	0.070	0.020	0.006	0.011	0.005	0.009
KHO3-6	0.066	0.018	0.009	0.012	0.004	0.010
KHO3-7	0.080	0.007	0.002	0.009	0.002	0.007
KHO3-10	0.091	0.006	0.004	0.011	0.001	0.002
KHO3-11	0.061	0.015	0.002	0.006	0.002	0.008
KHO3-14	0.076	0.011	0.011	0.018	0.001	0.002
KHO3-15	0.129	0.013	0.011	0.013	0.000	0.001
KHO3-16	0.128	0.022	0.008	0.014	0.001	0.005
KHO3-17	0.064	0.008	0.005	0.008	0.002	0.005
KHO3-21	0.062	0.016	0.003	0.006	0.002	0.004
KHO3-22	0.095	0.008	0.005	0.011	0.000	0.001
KHO3-23	0.082	0.011	0.008	0.016	0.002	0.005
KHO3-24	0.084	0.016	0.006	0.005	0.000	0.002
KHO3-25	0.071	0.017	0.008	0.014	0.003	0.008
KHO3-27	0.078	-	0.005	-	0.006	-
KH96-1	0.074	0.017	0.003	0.007	0.003	0.009
KH96-2	0.063	0.016	0.008	0.014	0.002	0.006
KH96-3	0.061	0.012	0.003	0.006	0.003	0.007
KH96-8	0.126	0.014	0.008	0.010	0.000	0.001
KH96-9	0.068	0.020	0.010	0.014	0.002	0.007
KH96-10b	0.060	0.015	0.006	0.007	0.004	0.008
KH96-12	0.067	0.006	0.004	0.008	0.002	0.005
KH96-13	0.061	0.017	0.002	0.008	0.002	0.004
KH96-14	0.070	0.013	0.004	0.012	0.003	0.006
KH96-18	0.056	0.018	0.000	0.002	0.004	0.014
KH96-20	0.073	0.014	0.008	0.017	0.001	0.004
KH96-21	0.082	0.015	0.003	0.004	0.003	0.008
KH96-22	0.067	0.022	0.002	0.008	0.001	0.005
KH96-23	0.071	0.014	0.006	0.014	0.002	0.004
KH96-24	0.065	0.029	0.002	0.005	0.002	0.004
KH1(b)	0.090	0.019	0.015	0.008	0.000	0.024
KLB 8312	0.132	0.014	0.018	0.010	0.002	0.018

Sample	P₂O₅	2 sd	Cr₂O₃	2 sd	NiO	2 sd
KHO3-2	0.006	0.013	0.010	0.020	0.387	0.016
KHO3-3	0.009	0.017	0.020	0.027	0.398	0.011
KHO3-4	0.020	0.012	0.013	0.020	0.381	0.021
KHO3-5	0.025	0.043	0.007	0.019	0.389	0.023
KHO3-6	0.006	0.014	0.011	0.017	0.404	0.019
KHO3-7	0.004	0.009	0.010	0.017	0.391	0.009
KHO3-10	0.000	0.000	0.005	0.009	0.396	0.009
KHO3-11	0.015	0.026	0.021	0.015	0.398	0.011
KHO3-14	0.021	0.022	0.017	0.025	0.356	0.033
KHO3-15	0.006	0.013	0.055	0.012	0.383	0.018
KHO3-16	0.008	0.014	0.050	0.029	0.417	0.029
KHO3-17	0.007	0.014	0.013	0.012	0.388	0.012
KHO3-21	0.004	0.015	0.007	0.017	0.370	0.023
KHO3-22	0.013	0.014	0.023	0.029	0.388	0.016
KHO3-23	0.004	0.008	0.021	0.025	0.387	0.032
KHO3-24	0.011	0.014	0.019	0.038	0.372	0.009
KHO3-25	0.012	0.015	0.022	0.021	0.391	0.019
KHO3-27	0.002	-	0.016	-	0.382	-
KH96-1	-	-	0.013	0.021	0.394	0.028
KH96-2	0.003	0.007	0.012	0.028	0.403	0.028
KH96-3	-	-	0.000	0.013	0.247	0.020
KH96-8	-	-	0.043	0.013	0.398	0.013
KH96-9	-	-	0.022	0.028	0.393	0.018
KH96-10b	-	-	0.007	0.014	0.384	0.028
KH96-12	-	-	0.009	0.014	0.389	0.016
KH96-13	-	-	0.026	0.032	0.383	0.008
KH96-14	-	-	0.006	0.018	0.365	0.024
KH96-18	-	-	0.005	0.019	0.395	0.020
KH96-20	-	-	0.006	0.012	0.381	0.016
KH96-21	-	-	0.023	0.029	0.411	0.016
KH96-22	-	-	0.001	0.002	0.385	0.036
KH96-23	-	-	0.011	0.013	0.393	0.016
KH96-24	-	-	0.014	0.031	0.352	0.019
KH1(b)	-	-	0.019	0.024	0.013	0.388
KLB 8312	-	-	0.027	0.029	0.013	0.357

Table B.1.2.1.1. Major element compositions of cores of olivine grains from Kilbourne Hole peridotite xenoliths. All concentrations expressed as weight %. All values are the mean of at least 3 analyses made by electron microprobe at The Open University.