

Appendix 3 Zircon U-Pb data of the analysed samples from the Balehonnur shearzone.

Name	Isotope ratios						Age (Ma)						Elemental data					
	$^{207}\text{Pb}/^{235}\text{U}$	2 SE	$^{206}\text{Pb}/^{238}\text{U}$	2 SE	RHO*	$^{207}\text{Pb}/^{206}\text{Pb}$	2 SE	$^{207}\text{Pb}/^{235}\text{U}$	2 SE	$^{206}\text{Pb}/^{238}\text{U}$	2 SE	$^{207}\text{Pb}/^{206}\text{Pb}$	2 SE	Disc. (%)**	Pb (ppm)	Th (ppm)	U (ppm)	Th/U
WG-14																		
WG14-1	12.15	0.25	0.499	0.01	0.94	0.1764	0.004	2616	20	2611	42	2620	35	0.4	84	121	104	1.2
WG14-2	5.26	0.11	0.266	0.01	0.95	0.1436	0.003	1862	17	1518	26	2271	36	37.1	827	3251	2065	1.6
WG14-3	12.15	0.25	0.508	0.01	0.93	0.1735	0.004	2616	20	2647	43	2592	36	-2.6	105	150	127	1.2
WG14-4a	12.05	0.25	0.498	0.01	0.94	0.1754	0.004	2609	20	2607	42	2610	36	0.1	75	124	89	1.4
WG14-4b	12.03	0.25	0.499	0.01	0.93	0.1749	0.004	2607	20	2609	42	2605	36	-0.2	55	120	61	2.0
WG14-4c	12.00	0.25	0.501	0.01	0.93	0.1738	0.004	2604	20	2616	42	2595	36	-1.0	79	139	96	1.4
WG14-5a	12.29	0.26	0.503	0.01	0.92	0.1771	0.004	2627	20	2627	42	2626	36	-0.1	95	138	116	1.2
WG14-5b	12.07	0.25	0.501	0.01	0.92	0.1746	0.004	2610	20	2619	42	2603	36	-0.8	183	212	232	0.9
WG14-6	13.28	0.28	0.518	0.01	0.91	0.1860	0.004	2700	20	2691	43	2707	36	0.7	56	91	66	1.4
WG14-8	12.21	0.26	0.501	0.01	0.90	0.1767	0.004	2621	20	2619	42	2622	37	0.1	194	363	224	1.6
WG14-9	12.09	0.27	0.503	0.01	0.88	0.1743	0.004	2612	21	2628	42	2599	38	-1.4	41	64	48	1.3
WG14-10	12.13	0.27	0.485	0.01	0.89	0.1814	0.004	2614	21	2548	41	2666	37	5.3	118	166	155	1.1
WG14-11	12.08	0.27	0.503	0.01	0.87	0.1743	0.004	2611	21	2626	42	2600	39	-1.2	44	78	52	1.5
WG14-12	12.03	0.28	0.498	0.01	0.86	0.1752	0.004	2607	22	2605	42	2608	39	0.1	21	34	26	1.3
WG14-13	11.99	0.27	0.497	0.01	0.86	0.1750	0.004	2604	21	2600	42	2606	39	0.3	36	68	43	1.6
MB-02																		
MB-02_1b	5.30	0.10	0.242	0.00	0.97	0.1587	0.002	1870	17	1399	24	2442	17	47.4	265	514	764	0.7
MB-02_1a	11.63	0.23	0.485	0.01	0.96	0.1737	0.002	2575	19	2551	40	2594	17	2.0	31	35	44	0.8

* RHO is the error correlation between the two U-Pb isotope systems and it was calculated as the ratio of

the relative error on the $^{206}\text{Pb}/^{238}\text{U}$ over that on the $^{207}\text{Pb}/^{235}\text{U}$ (e.g., Gerdes and Zeh, [113])

** The discordance was calculated using the formula given in Guitreau and Blichert-Toft [114] that includes the Pythagorean theorem.