

Table 3. Lu–Hf and oxygen isotopic composition of magmatic zircon grains from felsic intrusive rocks in the western Capricorn Orogen

Analysis No.	Spot location	²⁰⁷ Pb/ ²⁰⁶ Pb date (Ma)	Th/U	¹⁷⁶ Hf/ ¹⁷⁷ Hf measured	¹⁷⁶ Lu/ ¹⁷⁷ Hf measured	¹⁷⁶ Yb/ ¹⁷⁷ Hf measured	¹⁷⁶ Hf/ ¹⁷⁷ Hf initial	ε _{Hf(t)}	ε _{Hf(1800 Ma)}	ε _{Hf(1650 Ma)}	T _{DM2} (Ga)	¹⁸ O/ ¹⁶ O ^{(a)(b)}	δ ¹⁸ O ^(c)
Halfway Gneiss													
GSWA 164309: foliated porphyritic biotite granodiorite													
<i>magmatic</i>													
1.1	–	2560 ± 3	1.04	0.281246	0.002086	0.058487	0.281144 ± 0.000026	-0.2 ± 0.9	–	–	3.08	–	–
2.1	–	2563 ± 5	0.82	0.281243	0.001233	0.033703	0.281183 ± 0.000034	1.3 ± 1.2	–	–	2.99	–	–
3.1	–	2534 ± 5	0.85	0.281185	0.001103	0.037499	0.281132 ± 0.000028	-1.2 ± 1.0	–	–	3.13	–	–
5.1	–	2553 ± 9	0.38	0.281180	0.000687	0.023413	0.281146 ± 0.000013	-0.2 ± 0.5	–	–	3.08	–	–
6.1	–	2553 ± 6	0.94	0.281179	0.000867	0.031802	0.281137 ± 0.000022	-0.6 ± 0.8	–	–	3.10	–	–
15.1	–	2517 ± 8	0.58	0.281197	0.000704	0.024175	0.281163 ± 0.000016	-0.5 ± 0.6	–	–	3.07	–	–
17.1	–	2537 ± 4	0.56	0.281186	0.000628	0.021058	0.281156 ± 0.000013	-0.3 ± 0.5	–	–	3.07	–	–
21.1	–	2562 ± 9	0.69	0.281134	0.000862	0.027096	0.281092 ± 0.000018	-2.0 ± 0.6	–	–	3.20	–	–
24.1	–	2546 ± 7	0.86	0.281220	0.000896	0.028355	0.281176 ± 0.000012	0.7 ± 0.4	–	–	3.02	–	–
26.1	–	2576 ± 8	0.57	0.281088	0.000766	0.024275	0.281050 ± 0.000015	-3.1 ± 0.5	–	–	3.28	–	–
28.1	–	2546 ± 6	0.69	0.281205	0.001333	0.038111	0.281140 ± 0.000017	-0.6 ± 0.6	–	–	3.10	–	–
29.1	–	2539 ± 10	0.56	0.281248	0.000662	0.019819	0.281216 ± 0.000018	1.9 ± 0.6	–	–	2.93	–	–
<i>inherited</i>													
13.1	–	2566 ± 10	0.57	0.281194	0.001107	0.039080	0.281140 ± 0.000019	-0.2 ± 0.7	–	–	3.09	–	–
19.1	–	2605 ± 10	0.60	0.281236	0.000622	0.019315	0.281205 ± 0.000016	3.1 ± 0.6	–	–	2.91	–	–
25.1	–	2673 ± 6	0.56	0.281027	0.000232	0.007264	0.281015 ± 0.000022	-2.1 ± 0.8	–	–	3.30	–	–
GSWA 142988: biotite tonalite													
<i>magmatic</i>													
3.1	–	2558 ± 6	0.35	0.281176	0.001172	0.045702	0.281119 ± 0.000014	-1.1 ± 0.5	–	–	3.14	–	–
7.1	–	2666 ± 11	2.10	0.281206	0.000618	0.022574	0.281174 ± 0.000010	3.4 ± 0.4	–	–	2.94	–	–
8.1	–	2667 ± 5	0.49	0.281101	0.001318	0.056934	0.281034 ± 0.000014	-1.6 ± 0.5	–	–	3.26	–	–
15.1	–	2655 ± 5	1.03	0.281108	0.000716	0.030861	0.281072 ± 0.000008	-0.5 ± 0.3	–	–	3.18	–	–
21.1	–	2689 ± 6	0.49	0.281033	0.000743	0.031856	0.280995 ± 0.000010	-2.5 ± 0.4	–	–	3.33	–	–
23.1	–	2683 ± 5	0.73	0.280999	0.000734	0.031839	0.280961 ± 0.000007	-3.8 ± 0.2	–	–	3.41	–	–
26.1	–	2667 ± 5	0.59	0.281068	0.001270	0.060972	0.281003 ± 0.000013	-2.7 ± 0.5	–	–	3.33	–	–
<i>inherited</i>													
1.1	–	2806 ± 9	1.27	0.280852	0.001060	0.047229	0.280795 ± 0.000015	-6.9 ± 0.5	–	–	3.70	–	–
5.1	–	2701 ± 8	0.53	0.281122	0.001286	0.056760	0.281056 ± 0.000011	0.0 ± 0.4	–	–	3.18	–	–
6.1	–	3253 ± 5	0.74	0.280774	0.000902	0.037836	0.280718 ± 0.000013	0.8 ± 0.5	–	–	3.55	–	–
9.1	–	2704 ± 5	0.48	0.281142	0.001009	0.042690	0.281090 ± 0.000010	1.2 ± 0.4	–	–	3.10	–	–
16.1	–	2711 ± 4	0.35	0.281081	0.001551	0.065746	0.281001 ± 0.000011	-1.8 ± 0.4	–	–	3.30	–	–
17.1	–	2801 ± 5	0.78	0.280827	0.000729	0.030728	0.280788 ± 0.000009	-7.2 ± 0.3	–	–	3.72	–	–
20.1	–	3040 ± 5	0.66	0.280808	0.000899	0.036580	0.280756 ± 0.000009	-2.8 ± 0.3	–	–	3.62	–	–
24.1	–	3274 ± 4	0.38	0.280701	0.000915	0.036772	0.280643 ± 0.000007	-1.4 ± 0.2	–	–	3.71	–	–
28.1	–	2716 ± 6	1.21	0.280964	0.000795	0.037581	0.280923 ± 0.000011	-4.4 ± 0.4	–	–	3.47	–	–

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a/b)	$\delta^{18}\text{O}$ (c)
GSWA 168950: pegmatite-banded tonalite gneiss													
<i>magmatic</i>													
2.1	—	2471 ± 2	0.00	0.281100	0.001780	0.088567	0.281016 ± 0.000008	-6.8 ± 0.3	—	—	3.43	—	—
5.1	—	2456 ± 6	0.29	0.281127	0.000227	0.013264	0.281116 ± 0.000012	-3.5 ± 0.4	—	—	3.22	—	—
11.1	—	2478 ± 2	0.02	0.281187	0.000560	0.032601	0.281161 ± 0.000011	-1.5 ± 0.4	—	—	3.10	—	—
12.1	—	2449 ± 4	0.14	0.281109	0.000303	0.018000	0.281095 ± 0.000012	-4.5 ± 0.4	—	—	3.27	—	—
17.1	—	2466 ± 11	0.45	0.281194	0.000075	0.004954	0.281190 ± 0.000012	-0.7 ± 0.4	—	—	3.04	—	—
21.1	—	2472 ± 2	0.01	0.281134	0.000708	0.042113	0.281101 ± 0.000708	-3.7 ± 0.3	—	—	3.24	—	—
<i>inherited</i>													
1.1	—	2506 ± 2	0.27	0.281121	0.000625	0.032041	0.281091 ± 0.000006	-3.3 ± 0.2	—	—	3.24	—	—
3.1	—	2518 ± 1	0.25	0.281152	0.000601	0.036244	0.281123 ± 0.000009	-1.9 ± 0.3	—	—	3.16	—	—
6.1	—	2635 ± 7	0.73	0.281092	0.000702	0.036276	0.281057 ± 0.000011	-1.5 ± 0.4	—	—	3.23	—	—
8.1	—	2519 ± 4	0.42	0.281105	0.000479	0.020540	0.281082 ± 0.000007	-3.3 ± 0.3	—	—	3.25	—	—
9.1	—	2507 ± 3	1.32	0.281117	0.000690	0.041587	0.281084 ± 0.000013	-3.5 ± 0.5	—	—	3.26	—	—
10.1	—	2564 ± 12	1.75	0.281152	0.000447	0.025597	0.281130 ± 0.000447	-0.6 ± 0.3	—	—	3.11	—	—
13.1	—	2701 ± 4	0.75	0.281010	0.001260	0.067265	0.280945 ± 0.000014	-4.0 ± 0.5	—	—	3.43	—	—
14.1	—	2730 ± 6	0.63	0.281073	0.001540	0.081686	0.280993 ± 0.000012	-1.6 ± 0.4	—	—	3.31	—	—
15.1	—	2619 ± 9	0.52	0.281154	0.000823	0.040745	0.281113 ± 0.000013	0.1 ± 0.5	—	—	3.11	—	—
15.2	—	2534 ± 2	0.01	0.281190	0.000565	0.031019	0.281163 ± 0.000013	-0.1 ± 0.5	—	—	3.06	—	—
16.1	—	2519 ± 3	0.35	0.281132	0.000842	0.043136	0.281092 ± 0.000842	-3.0 ± 0.4	—	—	3.23	—	—
20.2	—	2506 ± 8	0.40	0.281160	0.000197	0.010743	0.281151 ± 0.000012	-1.2 ± 0.4	—	—	3.11	—	—
22.1	—	2507 ± 2	0.01	0.281119	0.000565	0.033149	0.281092 ± 0.000009	-3.2 ± 0.3	—	—	3.24	—	—
23.1	—	2515 ± 5	0.27	0.281126	0.000189	0.010377	0.281117 ± 0.000011	-2.2 ± 0.4	—	—	3.18	—	—
GSWA 188973: metagranodiorite													
<i>magmatic</i>													
2.1	—	2419 ± 6	0.10	0.281214	0.000976	0.047891	0.281169 ± 0.000013	-2.5 ± 0.5	—	—	3.12	—	—
7.1	—	2457 ± 8	0.02	0.281196	0.001177	0.043967	0.281141 ± 0.000012	-2.6 ± 0.4	—	—	3.16	—	—
10.1	—	2421 ± 6	0.02	0.281234	0.000633	0.029098	0.281205 ± 0.000011	-1.2 ± 0.4	—	—	3.04	—	—
11.1	—	2387 ± 43	0.64	0.281240	0.000782	0.035950	0.281204 ± 0.000782	-2.0 ± 0.5	—	—	3.07	—	—
12.1	—	2466 ± 11	0.48	0.281167	0.000926	0.041717	0.281123 ± 0.000015	-3.1 ± 0.5	—	—	3.19	—	—
13.1	—	2432 ± 6	0.06	0.281229	0.000843	0.036155	0.281190 ± 0.000010	-1.5 ± 0.4	—	—	3.07	—	—
14.1	—	2401 ± 6	0.13	0.281241	0.001417	0.060308	0.281176 ± 0.000011	-2.7 ± 0.4	—	—	3.12	—	—
16.1	—	2445 ± 6	0.87	0.281229	0.001115	0.048109	0.281177 ± 0.000007	-1.6 ± 0.2	—	—	3.09	—	—
22.1	—	2429 ± 7	0.76	0.281202	0.000630	0.028830	0.281173 ± 0.000011	-2.1 ± 0.4	—	—	3.11	—	—
24.1	—	2428 ± 5	0.10	0.281205	0.001207	0.054466	0.281149 ± 0.000013	-3.0 ± 0.5	—	—	3.16	—	—
<i>inherited</i>													
8.1	—	2669 ± 5	0.56	0.281082	0.001117	0.050152	0.281025 ± 0.000016	-1.9 ± 0.6	—	—	3.28	—	—
15.1	—	2541 ± 4	0.22	0.281082	0.000846	0.033418	0.281041 ± 0.000009	-4.3 ± 0.3	—	—	3.33	—	—
17.1	—	2501 ± 10	0.23	0.281336	0.000898	0.035960	0.281293 ± 0.000007	3.8 ± 0.3	—	—	2.79	—	—

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a)(b)	$\delta^{18}\text{O}$ (c)
Dalgaringa Supersuite													
GSWA 168952: biotite–hornblende tonalite													
<i>magmatic</i>													
1.1	–	2000 ± 10	1.48	0.281411	0.001138	0.055926	0.281368 ± 0.000013	-5.1 ± 0.5	–	–	2.96	–	–
2.1	–	1995 ± 10	1.36	0.281365	0.000802	0.030620	0.281335 ± 0.000011	-6.4 ± 0.4	–	–	3.04	–	–
5.1	–	2003 ± 9	1.20	0.281372	0.000687	0.035743	0.281346 ± 0.000012	-5.8 ± 0.4	–	–	3.01	–	–
7.1	–	1982 ± 12	1.45	0.281401	0.000677	0.032098	0.281375 ± 0.000010	-5.2 ± 0.4	–	–	2.96	–	–
8.1	–	2012 ± 10	0.82	0.281394	0.000911	0.039635	0.281359 ± 0.000015	-5.1 ± 0.5	–	–	2.97	–	–
10.1	–	1997 ± 11	0.88	0.281384	0.000927	0.041949	0.281349 ± 0.000010	-5.8 ± 0.4	–	–	3.01	–	–
13.1	–	2005 ± 8	1.26	0.281374	0.001049	0.047583	0.281334 ± 0.000011	-6.1 ± 0.4	–	–	3.04	–	–
14.1	–	1986 ± 8	1.40	0.281319	0.000440	0.019629	0.281302 ± 0.000010	-7.7 ± 0.3	–	–	3.12	–	–
16.1	–	1986 ± 8	1.07	0.281340	0.000890	0.039526	0.281306 ± 0.000011	-7.6 ± 0.4	–	–	3.11	–	–
17.1	–	2002 ± 8	2.42	0.281256	0.000722	0.032056	0.281229 ± 0.000009	-10.0 ± 0.3	–	–	3.27	–	–
20.1	–	2008 ± 6	0.89	0.281255	0.000925	0.043668	0.281220 ± 0.000012	-10.1 ± 0.4	–	–	3.29	–	–
<i>inherited</i>													
4.1	–	2014 ± 8	1.25	0.281387	0.001330	0.055124	0.281336 ± 0.000016	-5.9 ± 0.6	–	–	3.02	–	–
11.1	–	2023 ± 9	1.16	0.281368	0.000854	0.037465	0.281335 ± 0.000010	-5.7 ± 0.3	–	–	3.02	–	–
19.1	–	2013 ± 8	2.60	0.281274	0.000599	0.025807	0.281251 ± 0.000010	-8.9 ± 0.3	–	–	3.22	–	–
21.1	–	2016 ± 11	1.59	0.281202	0.000566	0.025563	0.281180 ± 0.000015	-11.4 ± 0.5	–	–	3.37	–	–
GSWA 142925: biotite monzogranite													
<i>magmatic</i>													
2.1	–	2000 ± 8	0.73	0.281467	0.001199	0.049017	0.281421 ± 0.000020	-3.2 ± 0.7	–	–	2.84	–	–
3.1	–	1981 ± 12	0.43	0.281415	0.000694	0.031617	0.281389 ± 0.000021	-4.7 ± 0.7	–	–	2.93	–	–
4.1	–	2002 ± 8	0.60	0.281418	0.000800	0.036650	0.281388 ± 0.000018	-4.3 ± 0.6	–	–	2.92	–	–
5.1	–	1993 ± 10	0.53	0.281486	0.000610	0.022389	0.281463 ± 0.000020	-1.8 ± 0.7	–	–	2.75	–	–
6.1	–	1995 ± 8	0.58	0.281474	0.000680	0.031599	0.281448 ± 0.000018	-2.3 ± 0.6	–	–	2.78	–	–
7.1	–	1990 ± 8	0.61	0.281451	0.001126	0.037746	0.281408 ± 0.000015	-3.8 ± 0.5	–	–	2.88	–	–
13.1	–	2011 ± 10	0.45	0.281459	0.000515	0.024000	0.281439 ± 0.000024	-2.3 ± 0.8	–	–	2.79	–	–
14.1	–	2001 ± 7	0.61	0.281452	0.000711	0.033514	0.281425 ± 0.000017	-3.0 ± 0.6	–	–	2.83	–	–
15.1	–	2024 ± 13	0.44	0.281436	0.000555	0.025213	0.281415 ± 0.000021	-2.8 ± 0.7	–	–	2.84	–	–
16.1	–	1998 ± 13	0.29	0.281354	0.000360	0.015640	0.281340 ± 0.000015	-6.1 ± 0.5	–	–	3.03	–	–
17.1	–	2008 ± 9	0.60	0.281426	0.000658	0.029441	0.281401 ± 0.000015	-3.7 ± 0.5	–	–	2.88	–	–
18.1	–	2006 ± 8	0.59	0.281440	0.000645	0.029568	0.281415 ± 0.000023	-3.2 ± 0.8	–	–	2.85	–	–
19.1	–	2012 ± 8	0.55	0.281422	0.000575	0.026089	0.281400 ± 0.000017	-3.6 ± 0.6	–	–	2.88	–	–
20.1	–	2004 ± 7	0.60	0.281441	0.000702	0.031566	0.281414 ± 0.000016	-3.3 ± 0.6	–	–	2.86	–	–
21.1	–	2008 ± 10	0.50	0.281470	0.000453	0.019845	0.281453 ± 0.000016	-1.9 ± 0.6	–	–	2.77	–	–
22.1	–	2001 ± 8	0.58	0.281437	0.000644	0.025985	0.281413 ± 0.000019	-3.4 ± 0.7	–	–	2.86	–	–

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}^{(a)(b)}$	$\delta^{18}\text{O}^{(c)}$
GSWA 142926: foliated biotite tonalite													
<i>magmatic</i>													
1.1	—	2009 ± 3	0.04	0.281512	0.000833	0.025598	0.281480 ± 0.000037	-0.9 ± 1.3	—	—	2.70	—	—
2.1	—	2006 ± 3	0.03	0.281476	0.000644	0.023064	0.281451 ± 0.000022	-2.0 ± 0.8	—	—	2.77	—	—
3.1	—	1979 ± 4	0.03	0.281428	0.000985	0.035840	0.281391 ± 0.000014	-4.7 ± 0.5	—	—	2.92	—	—
4.1	—	2010 ± 11	0.04	0.281396	0.000639	0.027461	0.281372 ± 0.000019	-4.7 ± 0.7	—	—	2.95	—	—
5.1	—	1999 ± 3	0.04	0.281431	0.001248	0.040596	0.281384 ± 0.000022	-4.5 ± 0.8	—	—	2.93	—	—
7.1	—	2007 ± 4	0.15	0.281470	0.000787	0.033070	0.281440 ± 0.000022	-2.3 ± 0.8	—	—	2.80	—	—
8.1	—	1990 ± 3	0.04	0.281411	0.000756	0.029728	0.281382 ± 0.000018	-4.8 ± 0.6	—	—	2.94	—	—
10.1	—	2002 ± 2	0.04	0.281453	0.001004	0.036004	0.281415 ± 0.000014	-3.3 ± 0.5	—	—	2.86	—	—
11.1	—	2001 ± 3	0.04	0.281453	0.001028	0.035521	0.281414 ± 0.000013	-3.4 ± 0.5	—	—	2.86	—	—
13.1	—	2000 ± 5	0.07	0.281471	0.001259	0.053768	0.281423 ± 0.000018	-3.1 ± 0.6	—	—	2.84	—	—
14.1	—	1992 ± 4	0.03	0.281372	0.000847	0.032607	0.281340 ± 0.000016	-6.2 ± 0.6	—	—	3.03	—	—
15.1	—	2005 ± 7	0.69	0.281545	0.001187	0.052465	0.281500 ± 0.000021	-0.3 ± 0.7	—	—	2.66	—	—
19.1	—	2002 ± 3	0.04	0.281457	0.000870	0.033766	0.281424 ± 0.000022	-3.0 ± 0.8	—	—	2.83	—	—
20.1	—	2006 ± 3	0.03	0.281376	0.000889	0.035588	0.281342 ± 0.000013	-5.8 ± 0.5	—	—	3.02	—	—
<i>inherited</i>													
12.1	—	2039 ± 3	0.04	0.281396	0.000876	0.034916	0.281362 ± 0.000015	-4.4 ± 0.5	—	—	2.95	—	—
GSWA 142933: biotite–hypersthene–clinopyroxene mafic granulite													
<i>magmatic</i>													
1.1	—	1981 ± 8	0.91	0.281797	0.001674	0.062209	0.281734 ± 0.000048	7.5 ± 1.7	—	—	2.15	—	—
2.1	—	1986 ± 9	0.28	0.281517	0.000422	0.012576	0.281501 ± 0.000021	-0.6 ± 0.7	—	—	2.67	—	—
3.1	—	1997 ± 6	1.53	0.281519	0.001079	0.043744	0.281478 ± 0.000021	-1.2 ± 0.7	—	—	2.72	—	—
4.1	—	2004 ± 4	1.84	0.281455	0.000865	0.031283	0.281422 ± 0.000016	-3.0 ± 0.6	—	—	2.84	—	—
5.1	—	1977 ± 5	1.20	0.281514	0.001135	0.042475	0.281471 ± 0.000017	-1.9 ± 0.6	—	—	2.74	—	—
6.1	—	1972 ± 12	0.75	0.281523	0.000700	0.024642	0.281497 ± 0.000019	-1.1 ± 0.7	—	—	2.69	—	—
7.1	—	1975 ± 16	0.53	0.281528	0.000347	0.012779	0.281515 ± 0.000020	-0.4 ± 0.7	—	—	2.65	—	—
8.1	—	1975 ± 19	0.74	0.281583	0.000422	0.012241	0.281567 ± 0.000035	1.5 ± 1.2	—	—	2.53	—	—
9.1	—	2002 ± 6	0.35	0.281528	0.001047	0.035807	0.281488 ± 0.000022	-0.7 ± 0.8	—	—	2.69	—	—
10.1	—	1985 ± 9	1.01	0.281494	0.000787	0.029854	0.281464 ± 0.000024	-2.0 ± 0.8	—	—	2.75	—	—
13.1	—	1986 ± 9	0.44	0.281602	0.001756	0.074352	0.281536 ± 0.000013	0.6 ± 0.5	—	—	2.59	—	—
14.1	—	1981 ± 4	2.28	0.281519	0.000365	0.011449	0.281505 ± 0.000021	-0.6 ± 0.7	—	—	2.67	—	—
17.1	—	1986 ± 7	1.43	0.281508	0.000870	0.033555	0.281475 ± 0.000012	-1.6 ± 0.4	—	—	2.73	—	—
22.1	—	1985 ± 7	1.39	0.281568	0.001336	0.051700	0.281518 ± 0.000020	-0.1 ± 0.7	—	—	2.63	—	—
23.1	—	1989 ± 6	1.27	0.281452	0.000611	0.025529	0.281429 ± 0.000023	-3.1 ± 0.8	—	—	2.83	—	—
GSWA 142932: Nardoo Granite, porphyritic granodiorite													
<i>magmatic</i>													
1.1	—	1978 ± 9	0.37	0.281403	0.000734	0.023684	0.281375 ± 0.000021	-5.3 ± 0.7	—	—	2.96	—	—
2.1	—	1972 ± 6	0.20	0.281351	0.000603	0.018878	0.281328 ± 0.000028	-7.1 ± 1.0	—	—	3.07	—	—
3.1	—	1999 ± 9	0.44	0.281351	0.000783	0.024848	0.281321 ± 0.000026	-6.7 ± 0.9	—	—	3.07	—	—
5.1	—	1965 ± 8	0.59	0.281421	0.000974	0.030150	0.281385 ± 0.000025	-5.3 ± 0.9	—	—	2.95	—	—
6.1	—	1975 ± 7	0.07	0.281284	0.000495	0.017553	0.281265 ± 0.000031	-9.3 ± 1.1	—	—	3.21	—	—
7.1	—	1991 ± 7	0.30	0.281414	0.000615	0.023221	0.281391 ± 0.000020	-4.5 ± 0.7	—	—	2.92	—	—

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a)(b)	$\delta^{18}\text{O}$ (c)
8.1	—	1966 ± 9	0.44	0.281510	0.001061	0.039033	0.281470 ± 0.000023	-2.2 ± 0.8	—	—	2.75	—	—
11.1	—	1979 ± 19	1.10	0.281500	0.001728	0.065560	0.281435 ± 0.000032	-3.2 ± 1.1	—	—	2.83	—	—
12.1	—	1974 ± 9	0.20	0.281460	0.000715	0.023423	0.281433 ± 0.000022	-3.3 ± 0.8	—	—	2.83	—	—
13.1	—	1973 ± 7	0.64	0.281472	0.000808	0.029155	0.281442 ± 0.000013	-3.1 ± 0.5	—	—	2.81	—	—
17.1	—	1985 ± 7	0.40	0.281488	0.000794	0.024936	0.281458 ± 0.000023	-2.2 ± 0.8	—	—	2.77	—	—
22.1	—	1977 ± 8	0.19	0.281474	0.000864	0.029107	0.281442 ± 0.000017	-3.0 ± 0.6	—	—	2.81	—	—
23.1	—	1978 ± 7	0.52	0.281437	0.001222	0.039320	0.281391 ± 0.000019	-4.7 ± 0.7	—	—	2.92	—	—
<i>inherited</i>													
4.1	—	2024 ± 16	0.24	0.281452	0.000753	0.023779	0.281423 ± 0.000020	-2.6 ± 0.7	—	—	2.82	—	—
16.1	—	2026 ± 16	0.17	0.281390	0.000481	0.014119	0.281371 ± 0.000021	-4.3 ± 0.7	—	—	2.94	—	—
GSWA 142928: Nardoo Granite, biotite tonalite													
<i>magmatic</i>													
1.1	—	1975 ± 9	0.31	0.281444	0.000850	0.036242	0.281412 ± 0.000025	-4.1 ± 0.9	—	—	2.88	—	—
2.1	—	1977 ± 14	0.96	0.281440	0.000714	0.030371	0.281413 ± 0.000017	-4.0 ± 0.6	—	—	2.88	—	—
3.1	—	1955 ± 27	0.21	0.281474	0.000853	0.029275	0.281442 ± 0.000017	-3.4 ± 0.6	—	—	2.82	—	—
4.1	—	1968 ± 8	0.29	0.281481	0.000637	0.018172	0.281457 ± 0.000031	-2.6 ± 1.1	—	—	2.78	—	—
5.1	—	1962 ± 12	0.52	0.281422	0.000873	0.031028	0.281389 ± 0.000023	-5.2 ± 0.8	—	—	2.94	—	—
6.1	—	1956 ± 11	0.37	0.281378	0.000713	0.027123	0.281352 ± 0.000022	-6.6 ± 0.8	—	—	3.03	—	—
9.1	—	1979 ± 11	0.75	0.281428	0.001086	0.042271	0.281387 ± 0.000016	-4.9 ± 0.6	—	—	2.93	—	—
13.1	—	1959 ± 7	0.17	0.281491	0.001011	0.033066	0.281453 ± 0.000016	-3.0 ± 0.6	—	—	2.80	—	—
14.1	—	1968 ± 8	0.62	0.281440	0.000992	0.040495	0.281403 ± 0.000022	-4.5 ± 0.8	—	—	2.90	—	—
16.1	—	1976 ± 5	0.47	0.281449	0.000766	0.028071	0.281420 ± 0.000016	-3.7 ± 0.6	—	—	2.86	—	—
17.1	—	1967 ± 13	0.57	0.281470	0.000982	0.036103	0.281433 ± 0.000015	-3.5 ± 0.5	—	—	2.84	—	—
18.1	—	1984 ± 17	0.49	0.281556	0.000810	0.028790	0.281525 ± 0.000015	0.2 ± 0.5	—	—	2.62	—	—
20.1	—	1982 ± 20	0.34	0.281416	0.000444	0.015876	0.281399 ± 0.000016	-4.4 ± 0.6	—	—	2.90	—	—
21.1	—	1972 ± 11	0.59	0.281484	0.001346	0.048587	0.281434 ± 0.000022	-3.4 ± 0.8	—	—	2.83	—	—
22.1	—	1981 ± 10	0.76	0.281455	0.000263	0.010104	0.281445 ± 0.000013	-2.7 ± 0.5	—	—	2.80	—	—
Moorarie Supersuite													
<i>southern plutons</i>													
GSWA 142849: foliated coarse-grained monzogranite													
<i>magmatic</i>													
4.1	centre	1829 ± 16	0.38	0.281554	0.001885	0.087914	0.281489 ± 0.000023	-4.7 ± 0.8	—	—	2.81	—	—
	edge			0.281500	0.000428	0.017301	0.281485 ± 0.000021	-4.8 ± 0.7	—	—	2.81	—	—
5.1	centre	1835 ± 12	0.44	0.281520	0.000619	0.025722	0.281498 ± 0.000016	-4.2 ± 0.6	—	—	2.78	—	—
18.1	centre	1797 ± 11	0.25	0.281388	0.000476	0.019413	0.281372 ± 0.000012	-9.5 ± 0.4	—	—	3.09	—	—
	edge			0.281450	0.000660	0.025424	0.281428 ± 0.000015	-7.6 ± 0.5	—	—	2.96	—	—
22.1	centre	1783 ± 17	0.24	0.281455	0.000613	0.026226	0.281434 ± 0.000018	-7.6 ± 0.6	—	—	2.96	—	—
	edge			0.281387	0.000643	0.018631	0.281365 ± 0.000014	-10.1 ± 0.5	—	—	3.11	—	—
25.1	edge	1823 ± 17	0.31	0.281398	0.000778	0.020889	0.281371 ± 0.000013	-9.0 ± 0.5	—	—	3.07	—	—

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a/b)	$\delta^{18}\text{O}$ (c)
GSWA 159987: Dumbie Granodiorite, foliated porphyritic biotite granodiorite													
<i>magmatic</i>													
1.1	—	1816 ± 18	1.76	0.281554	0.000264	0.011033	0.281545 ± 0.000023	-3.0 ± 0.8	—	—	2.69	—	—
9.1	centre	1793 ± 19	0.93	0.281404	0.000431	0.019959	0.281389 ± 0.000012	-9.0 ± 0.4	—	—	3.05	—	—
	edge			0.281432	0.000590	0.025474	0.281412 ± 0.000014	-8.2 ± 0.5	—	—	3.00	—	—
13.1	—	1812 ± 7	0.07	0.281389	0.000313	0.014486	0.281378 ± 0.000015	-9.0 ± 0.5	—	—	3.06	—	—
14.1	centre	1813 ± 6	0.08	0.281352	0.000555	0.025523	0.281333 ± 0.000011	-10.6 ± 0.4	—	—	3.16	—	—
	edge			0.281404	0.000807	0.040398	0.281376 ± 0.000016	-9.0 ± 0.6	—	—	3.07	—	—
16.1	centre	1806 ± 9	0.05	0.281434	0.000290	0.012142	0.281424 ± 0.000012	-7.5 ± 0.4	—	—	2.97	—	—
	edge			0.281378	0.000475	0.021962	0.281362 ± 0.000012	-9.7 ± 0.4	—	—	3.11	—	—
<i>inherited</i>													
4.1	—	2107 ± 16	0.07	0.281397	0.000445	0.021538	0.281379 ± 0.000012	-2.2 ± 0.4	—	—	2.86	—	—
5.1	—	2125 ± 10	0.92	0.281381	0.000577	0.026301	0.281358 ± 0.000012	-2.6 ± 0.4	—	—	2.90	—	—
6.1	—	2390 ± 27	0.17	0.281279	0.000646	0.026304	0.281250 ± 0.000012	-0.3 ± 0.4	—	—	2.96	—	—
8.1	—	2120 ± 12	1.42	0.281391	0.000943	0.035174	0.281353 ± 0.000016	-2.8 ± 0.6	—	—	2.91	—	—
10.1	—	2105 ± 10	1.04	0.281387	0.001018	0.038127	0.281346 ± 0.000011	-3.4 ± 0.4	—	—	2.94	—	—
12.1	—	2419 ± 9	0.26	0.281196	0.000978	0.047829	0.281151 ± 0.000014	-3.2 ± 0.5	—	—	3.17	—	—
15.1	—	2112 ± 10	1.25	0.281335	0.001465	0.071180	0.281276 ± 0.000012	-5.8 ± 0.4	—	—	3.09	—	—
17.1	—	2100 ± 8	1.20	0.281372	0.000775	0.034389	0.281341 ± 0.000010	-3.7 ± 0.3	—	—	2.96	—	—
18.1	—	2427 ± 7	0.30	0.281252	0.000653	0.030317	0.281222 ± 0.000013	-0.5 ± 0.5	—	—	3.00	—	—
19.1	—	2442 ± 8	0.50	0.281232	0.000546	0.023337	0.281207 ± 0.000013	-0.7 ± 0.5	—	—	3.02	—	—
22.1	—	2308 ± 6	0.25	0.281286	0.000636	0.033596	0.281258 ± 0.000009	-1.9 ± 0.3	—	—	3.00	—	—
23.1	—	2304 ± 5	0.14	0.281242	0.000166	0.007681	0.281235 ± 0.000013	-2.8 ± 0.5	—	—	3.06	—	—
26.1	—	2435 ± 6	0.45	0.281247	0.000291	0.011957	0.281233 ± 0.000008	0.1 ± 0.3	—	—	2.97	—	—
27.1	—	2424 ± 9	0.56	0.281226	0.001012	0.046061	0.281179 ± 0.000012	-2.0 ± 0.4	—	—	3.10	—	—
GSWA 188975: Dumbie Granodiorite, metatonalite													
<i>magmatic</i>													
1.1	—	1803 ± 6	0.07	0.281361	0.001092	0.032081	0.281324 ± 0.000012	-11.1 ± 0.4	—	—	3.19	—	—
2.1	—	1792 ± 6	0.05	0.281500	0.000876	0.039489	0.281470 ± 0.000013	-6.2 ± 0.5	—	-9.3	2.87	0.0020135 ± 0.0076	6.8 ± 0.08
3.1	—	1789 ± 8	0.22	0.281375	0.000340	0.014568	0.281363 ± 0.000008	-10.0 ± 0.3	—	-13.1	3.11	0.0020132 ± 0.0084	6.6 ± 0.09
7.1	—	1791 ± 9	0.13	0.281335	0.000014	0.000694	0.281335 ± 0.000007	-11.0 ± 0.2	—	-14.2	3.18	0.0020144 ± 0.0064	7.2 ± 0.07
	edge			0.281414	0.000665	0.030313	0.281391 ± 0.000011	-8.8 ± 0.4	—	-12.1	3.04	0.0020146 ± 0.0092	7.3 ± 0.09
11.1	—	1807 ± 6	0.07	0.281321	0.000672	0.023893	0.281298 ± 0.000009	-11.9 ± 0.3	—	-15.4	3.25	0.0020151 ± 0.0123	7.6 ± 0.13
16.1	—	1813 ± 8	0.15	0.281342	0.000999	0.038351	0.281308 ± 0.000007	-11.5 ± 0.2	—	—	3.22	—	—
19.1	—	1812 ± 7	0.15	0.281393	0.000876	0.030319	0.281363 ± 0.000010	-9.5 ± 0.3	—	—	3.10	—	—
21.1	centre	1803 ± 6	0.15	0.281332	0.000954	0.037148	0.281299 ± 0.000010	-12.0 ± 0.4	—	-15.3	3.25	0.0020123 ± 0.0097	6.2 ± 0.10
	edge			0.281340	0.000409	0.016353	0.281326 ± 0.000007	-11.0 ± 0.2	—	-14.5	3.19	0.0020123 ± 0.0082	6.2 ± 0.08
22.1	—	1812 ± 9	0.19	0.281396	0.000298	0.012007	0.281386 ± 0.000006	-8.7 ± 0.2	—	—	3.05	—	—

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a)(b)	$\delta^{18}\text{O}$ (c)
inherited													
5.1	—	2307 ± 5	0.18	0.281197	0.000441	0.016556	0.281178 ± 0.000011	-4.8 ± 0.4	-16.2	-19.6	3.18	0.0020178 ± 0.0136	8.9 ± 0.14
6.1	—	2113 ± 9	1.07	0.281286	0.000718	0.029987	0.281257 ± 0.000009	-6.4 ± 0.3	-13.4	-16.7	3.14	0.0020159 ± 0.0076	8.0 ± 0.08
8.1	—	2202 ± 119	0.42	0.281243	0.000276	0.009638	0.281231 ± 0.000007	-5.3 ± 0.2	—	—	3.13	—	—
12.1	—	2288 ± 8	0.25	0.281250	0.000427	0.017717	0.281231 ± 0.000012	-3.3 ± 0.4	-14.3	-17.7	3.07	0.0020125 ± 0.0101	6.3 ± 0.10
14.1	—	2326 ± 6	0.16	0.281243	0.000135	0.005472	0.281237 ± 0.000010	-2.2 ± 0.4	-14.2	-17.6	3.04	0.0020179 ± 0.0072	9.0 ± 0.08
15.2	—	2304 ± 41	0.28	0.281235	0.000565	0.021789	0.281210 ± 0.000005	-3.7 ± 0.2	-15.0	-18.4	3.11	0.0020181 ± 0.0058	9.1 ± 0.06
18.1	—	1914 ± 6	0.01	0.281390	0.000537	0.014758	0.281370 ± 0.000009	-6.9 ± 0.3	—	—	3.01	—	—
20.1	—	2200 ± 10	0.27	0.281218	0.000276	0.011130	0.281206 ± 0.000008	-6.2 ± 0.3	-15.3	-18.6	3.19	0.0020159 ± 0.0071	8.0 ± 0.07
23.1	—	2122 ± 8	0.81	0.281324	0.000494	0.018354	0.281304 ± 0.000010	-4.53 ± 0.3	—	—	3.02	—	—
GSWA 159996: Scrubber Granite, biotite monzogranite													
magmatic													
1.1	—	1811 ± 14	0.53	0.281458	0.000401	0.014407	0.281444 ± 0.000027	-6.7 ± 0.9	—	—	2.92	—	—
5.1	centre	1749 ± 27	0.63	0.281606	0.000733	0.025950	0.281582 ± 0.000020	-3.2 ± 0.7	—	-5.4	2.65	0.0020181 ± 0.0094	7.5 ± 0.10
	edge			0.281575	0.000811	0.022975	0.281548 ± 0.000015	-4.4 ± 0.5	—	-6.6	2.72	0.0020180 ± 0.0094	7.4 ± 0.10
8.1	centre	1805 ± 13	0.61	0.281462	0.000576	0.020170	0.281442 ± 0.000015	-6.9 ± 0.5	—	-10.3	2.93	0.0020163 ± 0.0064	6.6 ± 0.07
	edge			0.281412	0.000956	0.031246	0.281379 ± 0.000020	-9.1 ± 0.7	—	-12.5	3.07	0.0020160 ± 0.0067	6.4 ± 0.07
9.1	centre	1798 ± 9	0.75	0.281467	0.000519	0.017984	0.281449 ± 0.000018	-6.8 ± 0.6	—	-10.1	2.91	0.0020186 ± 0.0149	7.7 ± 0.15
	edge			0.281537	0.000680	0.019456	0.281514 ± 0.000018	-4.5 ± 0.6	—	-7.8	2.77	0.0020172 ± 0.0094	7.0 ± 0.10
21.1	—	1792 ± 8	0.22	0.281514	0.000586	0.020616	0.281494 ± 0.000014	-5.3 ± 0.5	—	—	2.82	—	—
22.1	—	1805 ± 10	0.62	0.281604	0.000743	0.024528	0.281579 ± 0.000015	-2.0 ± 0.5	—	—	2.62	—	—
25.1	—	1788 ± 8	0.52	0.281510	0.000731	0.024090	0.281485 ± 0.000023	-5.7 ± 0.8	—	—	2.84	—	—
inherited													
10.1	—	2127 ± 18	0.64	0.281279	0.000755	0.027891	0.281248 ± 0.000012	-6.4 ± 0.4	-13.7	-17.0	3.15	0.0020193 ± 0.0059	8.1 ± 0.06
13.1	centre	2282 ± 8	0.46	0.281360	0.000972	0.036369	0.281318 ± 0.000010	-0.4 ± 0.3	-11.1	-14.4	2.88	0.0020165 ± 0.0076	6.6 ± 0.08
13.1	edge			0.281451	0.000815	0.027242	0.281416 ± 0.000014	3.1 ± 0.5	-7.6	-11.0	2.66	0.0020149 ± 0.0089	5.8 ± 0.09
19.1	—	2263 ± 8	0.53	0.281325	0.000706	0.023638	0.281295 ± 0.000016	-1.6 ± 0.6	-12.0	-15.3	2.95	0.0020182 ± 0.0069	7.5 ± 0.07
20.1	—	2297 ± 8	0.72	0.281343	0.000668	0.021058	0.281314 ± 0.000016	-0.2 ± 0.6	-11.3	-14.6	2.88	0.0020170 ± 0.0096	6.9 ± 0.10
Minnie Creek batholith													
GSWA 191995: foliated monzogranite													
magmatic													
1.1	—	1799 ± 8	0.50	0.281608	0.000842	0.034424	0.281579 ± 0.000032	-2.1 ± 1.1	—	—	2.62	—	—
5.1	—	1790 ± 18	0.75	0.281698	0.000985	0.045937	0.281665 ± 0.000044	0.7 ± 1.5	—	-2.4	2.43	0.0020213 ± 0.0139	8.0 ± 0.14
7.1	—	1778 ± 8	0.71	0.281295	0.001103	0.040932	0.281258 ± 0.000030	-14.0 ± 1.1	—	—	3.36	—	—
15.1	—	1792 ± 8	0.53	0.281141	0.000639	0.028734	0.281119 ± 0.000026	-18.6 ± 0.9	—	—	3.65	—	—
18.1	—	1788 ± 7	0.37	0.281553	0.000704	0.026126	0.281529 ± 0.000014	-4.2 ± 0.5	—	-7.2	2.74	0.0020190 ± 0.0115	7.9 ± 0.12
19.1	—	1808 ± 12	0.38	0.281645	0.001040	0.042244	0.281609 ± 0.000019	-0.9 ± 0.7	—	—	2.55	—	—
22.1	—	1803 ± 16	1.89	0.281363	0.000385	0.018436	0.281350 ± 0.000024	-10.2 ± 0.8	—	-13.6	3.13	0.0020238 ± 0.0085	9.2 ± 0.09
24.1	—	1797 ± 7	0.41	0.281370	0.000703	0.030045	0.281346 ± 0.000068	-10.5 ± 2.4	—	—	3.15	—	—

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}^{(a/b)}$	$\delta^{18}\text{O}^{(c)}$
inherited													
4.1	—	1825 ± 10	0.18	0.281593	0.001496	0.060581	0.281541 ± 0.000024	-2.9 ± 0.8	-3.4	-6.7	2.69	—	—
21.1	—	1884 ± 7	0.19	0.281569	0.000704	0.028496	0.281544 ± 0.000018	-1.5 ± 0.6	-3.3	-6.7	2.64	—	—
23.1	—	1840 ± 11	0.67	0.281718	0.001321	0.058784	0.281672 ± 0.000011	2.1 ± 0.4	1.2	-2.1	2.38	0.0020190 ± 0.0115	6.8 ± 0.12
25.1	—	2409 ± 6	0.46	0.281048	0.001203	0.047716	0.280993 ± 0.000012	-9.0 ± 0.4	-22.4	-25.7	3.53	0.0020182 ± 0.0097	6.4 ± 0.10
GSWA 88412: foliated porphyritic monzogranite													
magmatic													
4.1	centre	1792 ± 12	0.78	0.281669	0.001359	0.057430	0.281623 ± 0.000016	-0.7 ± 0.6	—	—	2.53	—	—
	edge			0.281611	0.000886	0.025725	0.281581 ± 0.000017	-2.2 ± 0.6	—	—	2.62	—	—
5.1	centre	1781 ± 12	0.69	0.281627	0.001221	0.056695	0.281586 ± 0.000013	-2.3 ± 0.5	—	—	2.62	—	—
	edge			0.281661	0.000824	0.033651	0.281633 ± 0.000011	-0.6 ± 0.4	—	—	2.51	—	—
7.1	centre	1787 ± 12	0.94	0.281644	0.001325	0.058780	0.281599 ± 0.000018	-1.7 ± 0.6	—	—	2.58	—	—
	edge			0.281601	0.000953	0.028479	0.281569 ± 0.000021	-2.8 ± 0.7	—	—	2.65	—	—
9.1	centre	1806 ± 10	0.82	0.281656	0.001392	0.057692	0.281608 ± 0.000018	-0.9 ± 0.6	—	—	2.55	—	—
	edge			0.281674	0.001170	0.036208	0.281634 ± 0.000016	0.0 ± 0.6	—	—	2.49	—	—
10.1	centre	1781 ± 17	0.67	0.281614	0.000831	0.035342	0.281586 ± 0.000015	-2.3 ± 0.5	—	—	2.62	—	—
	edge			0.281618	0.000738	0.022726	0.281593 ± 0.000018	-2.0 ± 0.6	—	—	2.60	—	—
19.1	centre	1786 ± 13	0.72	0.281601	0.001286	0.057640	0.281557 ± 0.000015	-3.2 ± 0.5	—	—	2.68	—	—
	edge			0.281664	0.000699	0.029764	0.281640 ± 0.000014	-0.3 ± 0.5	—	—	2.49	—	—
22.1	centre	1799 ± 10	0.73	0.281668	0.001218	0.056469	0.281626 ± 0.000011	-0.5 ± 0.4	—	—	2.51	—	—
	edge			0.281669	0.000933	0.032311	0.281637 ± 0.000013	-0.1 ± 0.5	—	—	2.49	—	—
23.1	centre	1794 ± 10	0.76	0.281597	0.000702	0.031921	0.281573 ± 0.000014	-2.5 ± 0.5	—	—	2.64	—	—
	edge			0.281608	0.000908	0.031836	0.281577 ± 0.000010	-2.3 ± 0.4	—	—	2.63	—	—
GSWA 88405: biotite granodiorite													
magmatic													
3.1	centre	1803 ± 17	0.61	0.281642	0.000779	0.034881	0.281615 ± 0.000019	-0.7 ± 0.7	—	—	2.54	—	—
	edge			0.281544	0.000978	0.027399	0.281511 ± 0.000027	-4.5 ± 0.9	—	—	2.77	—	—
9.1	—	1785 ± 14	0.60	0.281610	0.001640	0.072339	0.281554 ± 0.000032	-3.3 ± 1.1	—	—	2.69	—	—
14.1	centre	1814 ± 16	0.64	0.281654	0.000955	0.043694	0.281621 ± 0.000017	-0.3 ± 0.6	—	—	2.52	—	—
	edge			0.281613	0.000504	0.022943	0.281596 ± 0.000028	-1.2 ± 1.0	—	—	2.57	—	—
15.1	—	1781 ± 18	0.47	0.281550	0.000673	0.023296	0.281527 ± 0.000023	-4.4 ± 0.8	—	—	2.75	—	—
19.1	centre	1785 ± 13	0.60	0.281722	0.001089	0.049292	0.281685 ± 0.000026	1.3 ± 0.9	—	—	2.39	—	—
	edge			0.281734	0.000698	0.028652	0.281710 ± 0.000023	2.2 ± 0.8	—	—	2.33	—	—
23.1	centre	1794 ± 16	0.35	0.281582	0.001139	0.046635	0.281543 ± 0.000013	-3.5 ± 0.5	—	—	2.71	—	—
	edge			0.281635	0.000667	0.020399	0.281612 ± 0.000018	-1.1 ± 0.6	—	—	2.55	—	—
29.1	centre	1794 ± 14	0.59	0.281576	0.000719	0.029815	0.281552 ± 0.000011	-3.2 ± 0.4	—	—	2.69	—	—
	edge			0.281595	0.000699	0.031875	0.281571 ± 0.000010	-2.5 ± 0.3	—	—	2.64	—	—
37.1	centre	1796 ± 10	0.56	0.281632	0.000812	0.033936	0.281604 ± 0.000007	-1.3 ± 0.3	—	—	2.57	—	—
	edge			0.281626	0.000942	0.040946	0.281594 ± 0.000009	-2.0 ± 0.3	—	—	2.60	—	—

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a)(b)	$\delta^{18}\text{O}$ (c)
GSWA 190660: metamonzogranite													
<i>magmatic</i>													
1.1	centre	1787 ± 10	0.13	0.281573	0.000563	0.020453	0.281554 ± 0.000016	-3.3 ± 0.6	—	-6.4	2.69	0.0020220 ± 0.0166	7.7 ± 0.19
	edge			0.281533	0.001135	0.043740	0.281495 ± 0.000018	-5.4 ± 0.6	—	-8.4	2.82	0.0020202 ± 0.0173	6.8 ± 0.19
3.1	centre	1806 ± 9	0.27	0.281443	0.000613	0.022423	0.281422 ± 0.000021	-7.5 ± 0.7	—	-11.0	2.97	0.0020213 ± 0.0117	7.2 ± 0.15
	edge			0.281583	0.001239	0.037957	0.281541 ± 0.000016	-3.3 ± 0.6	—	-6.8	2.70	0.0020204 ± 0.0067	6.8 ± 0.11
4.1	—	1796 ± 5	0.11	0.281583	0.001406	0.046908	0.281535 ± 0.000012	-3.8 ± 0.4	—	—	2.72	—	—
5.1	—	1791 ± 4	0.15	0.281567	0.001608	0.058240	0.281512 ± 0.000013	-4.7 ± 0.5	—	—	2.78	—	—
6.1	centre	1792 ± 5	0.17	0.281620	0.000893	0.031164	0.281590 ± 0.000015	-1.9 ± 0.5	—	-5.1	2.60	0.0020222 ± 0.0073	7.6 ± 0.13
	edge			0.281563	0.001115	0.032713	0.281525 ± 0.000013	-4.2 ± 0.5	—	-7.3	2.75	0.0020224 ± 0.0118	7.7 ± 0.16
7.1	—	1787 ± 6	0.14	0.281551	0.001039	0.039342	0.281516 ± 0.000009	-4.7 ± 0.3	—	-7.7	2.77	0.0020227 ± 0.0115	7.9 ± 0.15
8.1	—	1796 ± 4	0.28	0.281582	0.001283	0.045827	0.281538 ± 0.000009	-3.7 ± 0.3	—	—	2.72	—	—
9.1	—	1794 ± 14	0.71	0.281568	0.001110	0.038556	0.281530 ± 0.000009	-4.0 ± 0.3	—	—	2.73	—	—
10.1	—	1792 ± 6	0.25	0.281571	0.001508	0.054549	0.281520 ± 0.000013	-4.4 ± 0.5	—	—	2.76	—	—
11.1	—	1786 ± 8	0.21	0.281554	0.000816	0.026048	0.281526 ± 0.000011	-4.3 ± 0.4	—	—	2.75	—	—
12.1	—	1794 ± 7	0.13	0.281548	0.001489	0.057237	0.281497 ± 0.000014	-5.1 ± 0.5	—	—	2.81	—	—
13.1	—	1802 ± 10	0.85	0.281541	0.001424	0.041926	0.281492 ± 0.000023	-5.1 ± 0.8	—	—	2.81	—	—
14.1	centre	1781 ± 5	0.13	0.281572	0.001122	0.039477	0.281534 ± 0.000013	-4.1 ± 0.5	—	-7.0	2.73	0.0020257 ± 0.0088	9.2 ± 0.15
	edge			0.281517	0.001115	0.030606	0.281479 ± 0.000035	-6.1 ± 1.2	—	-9.0	2.86	0.0020221 ± 0.0144	7.5 ± 0.19
15.1	—	1776 ± 9	0.19	0.281618	0.002537	0.086659	0.281533 ± 0.000012	-4.3 ± 0.4	—	—	2.74	—	—
16.1	—	1789 ± 10	0.13	0.281559	0.001768	0.059768	0.281499 ± 0.000015	-5.2 ± 0.5	—	—	2.81	—	—
17.1	—	1784 ± 7	0.10	0.281568	0.001855	0.055791	0.281505 ± 0.000012	-5.1 ± 0.4	—	—	2.80	—	—
<i>inherited</i>													
2.1	—	1933 ± 9	0.49	0.281531	0.001386	0.058868	0.281480 ± 0.000017	-2.6 ± 0.6	-5.5	-8.8	2.75	—	—
GSWA 190661: metatonalite													
<i>magmatic</i>													
1.1	centre	1794 ± 10	0.25	0.281356	0.000882	0.035771	0.281326 ± 0.000020	-11.2 ± 0.7	—	-14.4	3.19	0.0020206 ± 0.0120	7.8 ± 0.22
	edge			0.281589	0.000987	0.032360	0.281555 ± 0.000015	-3.1 ± 0.5	—	-6.3	2.68	0.0020226 ± 0.0120	8.9 ± 0.21
2.1	centre	1804 ± 8	0.26	0.281592	0.001206	0.044968	0.281551 ± 0.000011	-3.0 ± 0.4	—	-6.4	2.68	0.0020210 ± 0.0098	8.0 ± 0.22
	edge			0.281586	0.001169	0.040458	0.281546 ± 0.000010	-3.2 ± 0.4	—	-6.6	2.69	0.0020206 ± 0.0175	7.8 ± 0.26
3.1	—	1810 ± 10	0.23	0.281591	0.001137	0.043512	0.281552 ± 0.000009	-2.8 ± 0.3	—	-6.4	2.68	0.0020200 ± 0.0105	7.5 ± 0.23
4.1	—	1795 ± 9	0.26	0.281581	0.001431	0.059084	0.281532 ± 0.000010	-3.9 ± 0.4	—	—	2.73	—	—
5.1	—	1789 ± 5	0.01	0.281633	0.000527	0.019338	0.281615 ± 0.000011	-1.1 ± 0.4	—	—	2.55	—	—
7.1	—	1803 ± 7	0.39	0.281568	0.001180	0.038610	0.281528 ± 0.000011	-3.9 ± 0.4	—	—	2.73	—	—
9.1	centre	1805 ± 7	0.62	0.281598	0.002016	0.068636	0.281529 ± 0.000010	-3.8 ± 0.4	—	-7.1	2.73	0.0020204 ± 0.0098	7.6 ± 0.24
	edge			0.281590	0.000793	0.029534	0.281563 ± 0.000014	-2.6 ± 0.5	—	-6.0	2.65	0.0020219 ± 0.0079	8.4 ± 0.23
10.1	—	1802 ± 8	0.41	0.281601	0.001241	0.048822	0.281559 ± 0.000008	-2.8 ± 0.3	—	—	2.67	—	—
12.1	centre	1807 ± 7	0.19	0.281628	0.000971	0.035553	0.281595 ± 0.000016	-1.4 ± 0.6	—	-4.9	2.58	0.0020304 ± 0.0180	7.0 ± 0.30
	edge			0.281581	0.001237	0.038877	0.281539 ± 0.000019	-3.4 ± 0.7	—	-6.8	2.71	0.0020214 ± 0.0148	8.0 ± 0.27

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a/b)	$\delta^{18}\text{O}$ (c)
GSWA 190662: Middle Spring Granite, gneissic metamonzogranite													
<i>magmatic</i>													
1.1	centre	1797 ± 21	1.40	0.281606	0.000642	0.023993	0.281584 ± 0.000024	-2.0 ± 0.8	—	—	2.61	—	—
	edge	1797 ± 21		0.281550	0.000538	0.021085	0.281532 ± 0.000030	-3.9 ± 1.1	—	—	2.73	—	—
2.1	—	1762 ± 22	0.58	0.281616	0.000845	0.023373	0.281588 ± 0.000030	-2.7 ± 1.1	—	—	2.63	—	—
3.1	—	1773 ± 21	2.10	0.281375	0.000668	0.024868	0.281353 ± 0.000024	-10.8 ± 0.8	—	—	3.15	—	—
6.1	centre	1784 ± 18	0.84	0.281768	0.000232	0.010157	0.281760 ± 0.000044	4.0 ± 1.5	—	—	2.22	—	—
	edge	1784 ± 18		0.281621	0.000440	0.016772	0.281606 ± 0.000043	-1.5 ± 1.5	—	—	2.57	—	—
14.1	centre	1795 ± 13	0.81	0.281694	0.000816	0.028890	0.281666 ± 0.000028	0.9 ± 1.0	—	—	2.43	—	—
	edge	1795 ± 13		0.281687	0.000968	0.035064	0.281654 ± 0.000032	0.4 ± 1.1	—	—	2.45	—	—
19.1	—	1770 ± 16	1.09	0.281566	0.000336	0.014567	0.281555 ± 0.000016	-3.7 ± 0.6	—	-6.4	2.70	0.0020171 ± 0.0096	9.8 ± 0.10
22.1	—	1789 ± 26	2.15	0.281573	0.000549	0.016969	0.281554 ± 0.000025	-3.2 ± 0.9	—	—	2.68	—	—
25.1	—	1788 ± 26	0.67	0.281499	0.000576	0.020303	0.281479 ± 0.000012	-5.9 ± 0.4	—	—	2.85	—	—
<i>inherited</i>													
4.1	—	1848 ± 10	0.27	0.281589	0.001622	0.059680	0.281532 ± 0.000048	-2.7 ± 1.7	-3.7	-7.0	2.69	—	—
7.1	—	1841 ± 66	1.50	0.281541	0.000513	0.018838	0.281523 ± 0.000029	-3.2 ± 1.0	-4.1	-7.4	2.72	—	—
10.1	—	2703 ± 6	0.17	0.281252	0.000981	0.035289	0.281201 ± 0.000061	5.2 ± 2.1	-14.9	-18.2	2.85	—	—
11.1	—	1819 ± 35	1.45	0.281622	0.001775	0.051287	0.281561 ± 0.000049	-2.3 ± 1.7	-2.7	-6.0	2.65	—	—
GSWA 178024: biotite granodiorite													
<i>magmatic</i>													
1.1	—	1784 ± 14	1.84	0.281831	0.001687	0.041817	0.281774 ± 0.000083	4.4 ± 2.9	—	—	2.19	—	—
2.1	—	1770 ± 10	1.15	0.281645	0.001372	0.048062	0.281599 ± 0.000037	-2.1 ± 1.3	—	-4.7	2.60	0.0020174 ± 0.0119	7.2 ± 0.12
3.1	—	1787 ± 12	0.85	0.281666	0.002011	0.061158	0.281598 ± 0.000063	-1.7 ± 2.2	—	-4.7	2.59	0.0020169 ± 0.0096	7.0 ± 0.10
4.1	—	1779 ± 10	1.25	0.281665	0.001234	0.042637	0.281623 ± 0.000024	-1.0 ± 0.8	—	-3.8	2.53	0.0020172 ± 0.0091	7.1 ± 0.09
5.1	—	1763 ± 12	0.90	0.281625	0.001173	0.050380	0.281586 ± 0.000035	-2.7 ± 1.2	—	-5.2	2.63	0.0020165 ± 0.0088	6.8 ± 0.09
20.1	centre	1800 ± 12	0.70	0.281582	0.002642	0.077277	0.281492 ± 0.000037	-5.2 ± 1.3	—	—	2.82	—	—
	edge			0.281563	0.000751	0.028764	0.281537 ± 0.000016	-3.6 ± 0.6	—	—	2.71	—	—
21.1	centre	1802 ± 21	0.84	0.281547	0.000418	0.014322	0.281533 ± 0.000011	-3.7 ± 0.4	—	-7.1	2.72	0.0020217 ± 0.0159	9.4 ± 0.16
	edge			0.281584	0.000541	0.020019	0.281566 ± 0.000015	-2.5 ± 0.5	—	-5.9	2.65	0.0020182 ± 0.0119	7.6 ± 0.12
22.1	centre	1794 ± 14	0.87	0.281602	0.001092	0.041762	0.281565 ± 0.000017	-2.8 ± 0.6	—	—	2.66	—	—
	edge			0.281590	0.000985	0.026126	0.281556 ± 0.000032	-3.1 ± 1.1	—	—	2.68	—	—
24.1	—	1792 ± 14	0.71	0.281688	0.000951	0.036268	0.281656 ± 0.000023	0.4 ± 0.8	—	—	2.45	—	—
25.1	centre	1789 ± 15	0.83	0.281608	0.000577	0.021884	0.281588 ± 0.000016	-2.0 ± 0.6	—	-5.1	2.61	0.0020175 ± 0.0106	7.3 ± 0.11
	edge			0.281639	0.000783	0.028417	0.281612 ± 0.000012	-1.2 ± 0.4	—	-4.3	2.55	0.0020175 ± 0.0089	7.3 ± 0.09
26.1	—	1766 ± 21	0.87	0.281591	0.000808	0.028878	0.281564 ± 0.000013	-3.4 ± 0.5	—	—	2.68	—	—
27.1	—	1761 ± 22	0.54	0.281627	0.000885	0.034781	0.281597 ± 0.000034	-2.3 ± 1.2	—	—	2.61	—	—

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a/b)	$\delta^{18}\text{O}$ (c)
GSWA 180938: equigranular biotite monzogranite													
<i>magmatic</i>													
4.1	—	1774 ± 8	1.58	0.281686	0.001670	0.065476	0.281630 ± 0.000017	-0.9 ± 0.6	—	—	2.52	—	—
10.1	—	1823 ± 30	0.61	0.281535	0.000619	0.026267	0.281514 ± 0.000016	-3.9 ± 0.6	—	-7.8	2.75	0.0020146 ± 0.0125	8.5 ± 0.13
13.1	—	1785 ± 7	0.77	0.281567	0.002510	0.082501	0.281482 ± 0.000019	-5.9 ± 0.7	—	-8.7	2.85	0.0020128 ± 0.0093	7.6 ± 0.10
14.1	—	1767 ± 7	0.52	0.281648	0.001590	0.060128	0.281595 ± 0.000230	-2.3 ± 8.1	—	—	2.61	—	—
16.1	—	1788 ± 14	1.65	0.281506	0.000223	0.009793	0.281498 ± 0.000010	-5.2 ± 0.3	—	-8.4	2.81	0.0020158 ± 0.0096	9.1 ± 0.10
17.1	—	1747 ± 36	1.18	0.281624	0.001293	0.046924	0.281581 ± 0.000013	-3.2 ± 0.5	—	-5.4	2.65	0.0020106 ± 0.0081	6.5 ± 0.09
19.1	—	1800 ± 6	0.47	0.281600	0.001774	0.069553	0.281539 ± 0.000013	-3.5 ± 0.5	—	—	2.71	—	—
26.1	—	1778 ± 19	1.12	0.281583	0.002151	0.071666	0.281510 ± 0.000013	-5.0 ± 0.5	—	—	2.79	—	—
<i>inherited</i>													
5.1	—	2037 ± 7	0.92	0.281338	0.000622	0.024189	0.281314 ± 0.000008	-6.1 ± 0.3	-11.4	-14.8	3.06	0.0020095 ± 0.0088	6.0 ± 0.10
9.1	—	2187 ± 4	0.52	0.281416	0.001000	0.040246	0.281374 ± 0.000016	-0.6 ± 0.6	-9.1	-12.4	2.82	0.0020042 ± 0.0114	3.3 ± 0.12
GSWA 88419: porphyritic monzogranite													
<i>magmatic</i>													
1.1	centre	1764 ± 13	0.90	0.281612	0.001123	0.042077	0.281574 ± 0.000009	-3.1 ± 0.3	—	—	2.66	—	—
	edge			0.281600	0.000940	0.025571	0.281569 ± 0.000013	-3.3 ± 0.5	—	—	2.67	—	—
3.1	—	1796 ± 13	0.87	0.281720	0.001254	0.057002	0.281677 ± 0.000031	1.3 ± 1.1	—	—	2.40	—	—
5.1	centre	1798 ± 17	0.77	0.281481	0.000587	0.024940	0.281461 ± 0.000009	-6.4 ± 0.3	—	—	2.89	—	—
	edge			0.281700	0.000881	0.027824	0.281670 ± 0.000017	1.1 ± 0.6	—	—	2.42	—	—
8.1	—	1777 ± 17	0.32	0.281653	0.000843	0.023640	0.281625 ± 0.000014	-1.0 ± 0.5	—	—	2.53	—	—
12.1	—	1774 ± 11	0.92	0.281635	0.001429	0.057489	0.281587 ± 0.000027	-2.4 ± 0.9	—	—	2.62	—	—
19.1	centre	1790 ± 11	0.90	0.281656	0.000941	0.040871	0.281624 ± 0.000015	-0.7 ± 0.5	—	—	2.53	—	—
	edge			0.281665	0.000808	0.024653	0.281638 ± 0.000016	-0.3 ± 0.6	—	—	2.50	—	—
22.1	centre	1783 ± 12	0.87	0.281641	0.001191	0.049983	0.281601 ± 0.000010	-1.7 ± 0.4	—	—	2.58	—	—
	edge			0.281642	0.000972	0.027769	0.281609 ± 0.000013	-1.4 ± 0.5	—	—	2.56	—	—
36.2	centre	1785 ± 17	0.78	0.281651	0.000432	0.015004	0.281636 ± 0.000014	-0.4 ± 0.5	—	—	2.50	—	—
	edge			0.281661	0.000284	0.009407	0.281651 ± 0.000010	-0.3 ± 0.4	—	—	2.48	—	—
<i>northern plutons</i>													
GSWA 169088: foliated biotite monzogranite													
<i>magmatic</i>													
4.1	—	1794 ± 11	0.72	0.281560	0.000313	0.013031	0.281549 ± 0.000011	-3.3 ± 0.4	—	—	2.69	—	—
5.1	—	1796 ± 9	0.93	0.281533	0.000867	0.033762	0.281503 ± 0.000009	-4.9 ± 0.3	—	—	2.79	—	—
7.1	centre	1810 ± 11	0.78	0.281620	0.001042	0.044395	0.281584 ± 0.000009	-1.7 ± 0.3	—	—	2.60	—	—
	edge			0.281586	0.000779	0.032865	0.281559 ± 0.000019	-2.6 ± 0.7	—	—	2.66	—	—
10.1	centre	1803 ± 30	1.40	0.281630	0.000801	0.032322	0.281603 ± 0.000017	-1.2 ± 0.6	—	—	2.57	0.0020141 ± 0.0066	7.5 ± 0.07
	edge			0.281571	0.000827	0.035244	0.281543 ± 0.000019	-3.3 ± 0.7	—	—	2.70	0.0020141 ± 0.0065	7.5 ± 0.07
14.1	centre	1801 ± 40	1.03	0.281519	0.001039	0.045700	0.281484 ± 0.000017	-5.5 ± 0.6	—	—	2.84	0.0020150 ± 0.0080	8.0 ± 0.08
	edge			0.281487	0.000925	0.039469	0.281455 ± 0.000015	-6.5 ± 0.5	—	—	2.90	0.0020163 ± 0.0104	8.6 ± 0.11

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a)(b)	$\delta^{18}\text{O}$ (c)
16.1	centre	1747 \pm 42	1.09	0.281532	0.001223	0.052396	0.281492 \pm 0.000017	-6.4 \pm 0.6	—	—	2.85	0.0020159 \pm 0.0064	8.4 \pm 0.07
	edge			0.281538	0.000791	0.034148	0.281511 \pm 0.000014	-4.6 \pm 0.5	—	—	2.78	0.0020154 \pm 0.0080	8.2 \pm 0.08
22.1	—	1815 \pm 21	0.88	0.281515	0.000792	0.031862	0.281488 \pm 0.000014	-5.0 \pm 0.5	—	—	2.82	—	—
23.1	—	1824 \pm 19	1.13	0.281501	0.001549	0.060776	0.281447 \pm 0.000015	-6.2 \pm 0.5	—	—	2.90	—	—
inherited													
3.1	centre	2622 \pm 6	0.68	0.281152	0.000787	0.027604	0.281113 \pm 0.000010	0.2 \pm 0.3	-18.2	-21.5	3.11	0.0020109 \pm 0.0092	5.9 \pm 0.10
	edge	2237 \pm 8		0.281189	0.000328	0.012591	0.281175 \pm 0.000013	-6.5 \pm 0.5	-16.4	-19.7	3.24	0.0020139 \pm 0.0070	7.4 \pm 0.07
9.1	centre	1886 \pm 16	0.36	0.281582	0.000337	0.014703	0.281570 \pm 0.000013	-0.5 \pm 0.5	-2.4	-5.8	2.58	0.0020115 \pm 0.0100	6.2 \pm 0.10
	edge			0.281598	0.000310	0.013909	0.281587 \pm 0.000017	0.1 \pm 0.6	-1.8	-5.2	2.54	0.0020184 \pm 0.0068	6.1 \pm 0.07
17.1	—	1949 \pm 14	0.80	0.281559	0.000538	0.021805	0.281539 \pm 0.000012	-0.1 \pm 0.4	-3.5	-6.8	2.61	0.0020089 \pm 0.0071	4.9 \pm 0.08
GSWA 169087: foliated biotite granodiorite													
magmatic													
3.1	—	1754 \pm 20	0.90	0.281588	0.000641	0.023614	0.281567 \pm 0.000012	-3.6 \pm 0.4	—	—	2.68	0.0020156 \pm 0.0109	7.2 \pm 0.12
5.1	—	1808 \pm 9	0.24	0.281529	0.001199	0.049622	0.281488 \pm 0.000012	-5.2 \pm 0.4	—	—	2.82	0.0020153 \pm 0.0079	7.0 \pm 0.09
7.1	—	1787 \pm 24	0.50	0.281612	0.001490	0.051722	0.281562 \pm 0.000022	-3.0 \pm 0.8	—	—	2.67	—	—
8.1	—	1792 \pm 27	0.52	0.281660	0.001707	0.059492	0.281602 \pm 0.000018	-1.5 \pm 0.6	—	—	2.57	0.0020156 \pm 0.0068	7.2 \pm 0.08
9.1	—	1808 \pm 22	0.74	0.281518	0.000621	0.024383	0.281497 \pm 0.000012	-4.9 \pm 0.4	—	—	2.80	0.0020144 \pm 0.0101	6.6 \pm 0.11
12.1	—	1802 \pm 15	0.88	0.281668	0.001988	0.074797	0.281600 \pm 0.000017	-1.3 \pm 0.6	—	—	2.57	—	—
15.1	—	1783 \pm 12	0.34	0.281577	0.000819	0.035060	0.281549 \pm 0.000024	-3.6 \pm 0.8	—	—	2.70	0.0020196 \pm 0.0073	9.1 \pm 0.09
18.1	—	1811 \pm 9	0.19	0.281354	0.001424	0.064324	0.281305 \pm 0.000014	-11.6 \pm 0.5	—	—	3.23	—	—
20.1	—	1803 \pm 16	0.53	0.281645	0.001284	0.046984	0.281601 \pm 0.000017	-1.3 \pm 0.6	—	—	2.57	—	—
21.1	—	1768 \pm 15	1.31	0.281551	0.000989	0.037057	0.281518 \pm 0.000016	-5.0 \pm 0.6	—	—	2.78	—	—
24.1	—	1763 \pm 5	0.02	0.281791	0.002087	0.086717	0.281721 \pm 0.000045	2.1 \pm 1.6	—	—	2.32	—	—
inherited													
1.1	—	1981 \pm 20	0.74	0.281474	0.000478	0.017059	0.281456 \pm 0.000010	-2.4 \pm 0.3	-6.4	-9.8	2.78	0.0020164 \pm 0.0124	7.6 \pm 0.13
10.1	—	1853 \pm 19	0.72	0.281454	0.000587	0.023698	0.281433 \pm 0.000009	-6.1 \pm 0.3	-7.3	-10.6	2.91	0.0020139 \pm 0.0084	6.3 \pm 0.09
13.1	—	2284 \pm 8	0.33	0.281303	0.001545	0.064802	0.281236 \pm 0.000011	-3.3 \pm 0.4	-13.8	-17.0	3.07	0.0020168 \pm 0.0082	7.7 \pm 0.09
16.1	—	1919 \pm 9	0.21	0.281582	0.001829	0.065367	0.281515 \pm 0.000026	-1.7 \pm 0.9	-4.2	-7.4	2.68	0.0020178 \pm 0.0104	8.2 \pm 0.11
GSWA 169089: granophyric syenogranite													
magmatic													
2.1	—	1739 \pm 48	2.46	0.281389	0.002407	0.070594	0.281310 \pm 0.000045	-13.1 \pm 1.6	—	—	3.26	0.0020157 \pm 0.0087	8.2 \pm 0.09
3.2	—	1776 \pm 27	0.30	0.281578	0.002351	0.078067	0.281499 \pm 0.000031	-5.5 \pm 1.1	—	—	2.82	—	—
4.1	—	1790 \pm 19	0.54	0.281536	0.000847	0.035048	0.281507 \pm 0.000036	-4.9 \pm 1.3	—	—	2.79	0.0020122 \pm 0.0089	6.4 \pm 0.09
4.3	—	1797 \pm 18	0.29	0.281530	0.000743	0.023971	0.281505 \pm 0.000022	-4.8 \pm 0.8	—	—	2.79	—	—
5.1	—	1805 \pm 35	0.32	0.281521	0.001306	0.044182	0.281476 \pm 0.000020	-5.6 \pm 0.7	—	—	2.85	0.0020203 \pm 0.0089	10.5 \pm 0.09
5.2	—	1774 \pm 48	0.89	0.281537	0.000932	0.036791	0.281506 \pm 0.000018	-5.3 \pm 0.6	—	—	2.80	—	—
8.1	—	1784 \pm 19	0.83	0.281533	0.001485	0.048779	0.281483 \pm 0.000032	-5.9 \pm 1.1	—	—	2.85	0.0020148 \pm 0.0087	7.7 \pm 0.09
8.2	—	1772 \pm 16	0.88	0.281503	0.001122	0.050778	0.281465 \pm 0.000020	-6.8 \pm 0.7	—	—	2.90	—	—
10.1	—	1782 \pm 14	0.29	0.281540	0.000762	0.024760	0.281514 \pm 0.000016	-4.8 \pm 0.6	—	—	2.78	0.0020112 \pm 0.0076	5.9 \pm 0.08
10.2	—	1766 \pm 16	0.67	0.281588	0.001667	0.050291	0.281532 \pm 0.000040	-4.5 \pm 1.4	—	—	2.75	—	—

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a)(b)	$\delta^{18}\text{O}$ (c)
inherited													
6.1	—	1983 ± 10	0.73	0.281439	0.001253	0.040513	0.281392 ± 0.000012	-4.6 ± 0.4	-8.6	-11.9	2.92	0.0020123 ± 0.0084	6.5 ± 0.09
7.1	—	2755 ± 10	0.45	0.280950	0.001736	0.059065	0.280858 ± 0.000019	-5.8 ± 0.7	-26.6	-29.8	3.59	0.0020060 ± 0.0055	3.3 ± 0.06
GSWA 169058: Gooche Gneiss, augen orthogneiss													
magmatic													
3.1	centre	1771 ± 10	0.71	0.281653	0.001397	0.061344	0.281606 ± 0.000024	-1.8 ± 0.8	—	—	2.58	—	—
	edge			0.281418	0.003785	0.111851	0.281291 ± 0.000035	-13.0 ± 1.2	—	—	3.29	—	—
4.1	centre	1777 ± 20	0.76	0.281571	0.000875	0.035105	0.281542 ± 0.000026	-4.0 ± 0.9	—	—	2.72	—	—
	edge			0.281453	0.001842	0.050723	0.281391 ± 0.000030	-9.3 ± 1.1	—	—	3.06	—	—
6.1	centre	1771 ± 21	0.45	0.281642	0.001506	0.067601	0.281591 ± 0.000029	-2.3 ± 1.0	—	—	2.61	—	—
	edge			0.281548	0.001904	0.055753	0.281484 ± 0.000043	-6.1 ± 1.5	—	—	2.85	—	—
17.1	centre	1778 ± 10	0.24	0.281654	0.001222	0.050825	0.281613 ± 0.000012	-1.4 ± 0.4	—	—	2.56	—	—
	edge			0.281489	0.002038	0.059532	0.281420 ± 0.000020	-8.2 ± 0.7	—	—	2.99	—	—
19.1	centre	1793 ± 11	0.77	0.281563	0.000927	0.037795	0.281531 ± 0.000020	-4.0 ± 0.7	—	—	2.73	—	—
	edge			0.281530	0.001535	0.045468	0.281478 ± 0.000016	-5.9 ± 0.6	—	—	2.85	—	—
Durlacher Supersuite													
northern Capricorn Orogen plutons													
GSWA 169053, biotite–muscovite monzogranite													
magmatic													
9.1	—	1682 ± 9	0.01	0.281618	0.001546	0.06642	0.281569 ± 0.000012	-5.2 ± 0.4	—	—	2.72	0.0020236 ± 0.0098	10.5 ± 0.11
15.2	—	1683 ± 8	0.05	0.281588	0.001643	0.06950	0.281536 ± 0.000011	-6.3 ± 0.4	—	—	2.80	0.0020260 ± 0.0082	10.5 ± 0.10
18.1	—	1679 ± 9	0.01	0.281474	0.002259	0.07741	0.281402 ± 0.000029	-11.1 ± 1.0	—	—	3.10	0.0020234 ± 0.0106	10.4 ± 0.12
19.1	—	1667 ± 9	0.08	0.281537	0.002857	0.10174	0.281447 ± 0.000028	-9.8 ± 1.0	—	—	3.01	0.0020231 ± 0.0099	10.2 ± 0.11
20.1	—	1676 ± 9	0.02	0.281580	0.001686	0.07137	0.281526 ± 0.000011	-6.8 ± 0.4	—	—	2.82	0.0020236 ± 0.0108	10.5 ± 0.12
21.1	—	1682 ± 8	0.02	0.281556	0.001916	0.07104	0.281495 ± 0.000025	-7.8 ± 0.9	—	—	2.89	0.0020259 ± 0.0068	10.4 ± 0.09
22.1	—	1680 ± 9	0.08	0.281523	0.001396	0.06008	0.281479 ± 0.000012	-8.4 ± 0.4	—	—	2.93	0.0020255 ± 0.0059	10.3 ± 0.09
23.1	—	1669 ± 8	0.03	0.281559	0.001466	0.05906	0.281513 ± 0.000010	-7.4 ± 0.3	—	—	2.86	0.0020255 ± 0.0077	10.2 ± 0.10
24.1	—	1621 ± 9	0.02	0.281534	0.002193	0.07869	0.281467 ± 0.000035	-10.2 ± 1.2	—	—	2.99	—	—
25.1	—	1630 ± 9	0.02	0.281482	0.001270	0.05542	0.281443 ± 0.000016	-10.8 ± 0.6	—	—	3.04	0.0020257 ± 0.0089	10.3 ± 0.11
26.1	—	1645 ± 8	0.02	0.281556	0.001668	0.06752	0.281504 ± 0.000012	-8.3 ± 0.4	—	—	2.89	0.0020256 ± 0.0074	10.3 ± 0.10
27.1	—	1645 ± 8	0.02	0.281612	0.001800	0.08118	0.281556 ± 0.000012	-6.5 ± 0.4	—	—	2.78	0.0020257 ± 0.0088	10.3 ± 0.11
28.2	—	1673 ± 13	0.02	0.281565	0.001430	0.05978	0.281520 ± 0.000011	-7.1 ± 0.4	—	—	2.84	0.0020260 ± 0.0097	10.5 ± 0.12
inherited													
2.1	—	1728 ± 9	1.12	0.281473	0.001284	0.06776	0.281431 ± 0.000011	-9.0 ± 0.4	—	-10.1	3.00	0.0020186 ± 0.0098	8.0 ± 0.11
3.1	—	2222 ± 7	0.32	0.281130	0.000146	0.00743	0.281124 ± 0.000008	-8.7 ± 0.3	—	-20.9	3.36	0.0020179 ± 0.0097	7.6 ± 0.11
4.1	—	1938 ± 17	0.70	0.281284	0.001403	0.04933	0.281232 ± 0.000012	-11.3 ± 0.4	—	-16.9	3.31	0.0020159 ± 0.0098	6.6 ± 0.11
5.1	—	1940 ± 9	0.67	0.281295	0.000467	0.02306	0.281278 ± 0.000006	-9.6 ± 0.2	—	-15.4	3.20	0.0020162 ± 0.0109	6.8 ± 0.12
6.1	—	1706 ± 9	0.17	0.281476	0.003026	0.09873	0.281378 ± 0.000022	-11.4 ± 0.8	—	-11.9	3.13	0.0020183 ± 0.0115	7.8 ± 0.13
7.1	—	1790 ± 6	0.15	0.281576	0.001903	0.09198	0.281511 ± 0.000018	-4.7 ± 0.6	—	-7.1	2.78	0.0020233 ± 0.0121	10.3 ± 0.13
8.1	—	2115 ± 12	0.47	0.281297	0.001019	0.05217	0.281256 ± 0.000013	-6.4 ± 0.5	—	-16.0	3.14	0.0020152 ± 0.0126	6.2 ± 0.14

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a)(b)	$\delta^{18}\text{O}$ (c)
10.1	—	1783 ± 30	1.25	0.281532	0.000962	0.03593	0.281499 ± 0.000014	-5.3 ± 0.5	—	-7.6	2.81	0.0020162 ± 0.0093	6.7 ± 0.11
11.1	—	2048 ± 19	1.17	0.281343	0.000391	0.01629	0.281328 ± 0.000006	-5.4 ± 0.2	—	-13.7	3.02	0.0020167 ± 0.0119	7.0 ± 0.13
12.1	—	1801 ± 6	0.19	0.281848	0.001734	0.07010	0.281789 ± 0.000011	5.4 ± 0.4	—	2.8	2.14	0.0020175 ± 0.0155	7.4 ± 0.16
13.1	—	1713 ± 9	0.03	0.281538	0.001321	0.05597	0.281495 ± 0.000011	-7.1 ± 0.4	—	-7.8	2.87	0.0020213 ± 0.0088	9.3 ± 0.10
14.1	—	1824 ± 9	0.59	0.281714	0.001490	0.06606	0.281662 ± 0.000018	1.4 ± 0.6	—	-1.7	2.42	0.0020145 ± 0.0114	5.9 ± 0.12
15.1	—	2046 ± 7	0.62	0.281295	0.000629	0.03047	0.281271 ± 0.000010	-7.5 ± 0.3	—	-15.6	3.15	0.0020214 ± 0.0082	8.2 ± 0.10
16.1	—	1770 ± 10	0.35	0.281495	0.002705	0.09545	0.281404 ± 0.000026	-9.0 ± 0.9	—	-11.5	3.03	—	—
17.1	—	1797 ± 9	0.21	0.281540	0.000888	0.04354	0.281510 ± 0.000015	-4.6 ± 0.5	—	-7.2	2.78	0.0020199 ± 0.0099	7.5 ± 0.12
20.2	—	2201 ± 11	0.55	0.281278	0.000513	0.02512	0.281256 ± 0.000011	-4.4 ± 0.4	—	-16.1	3.08	0.0020145 ± 0.0094	5.9 ± 0.11
23.2	—	2392 ± 7	0.22	0.281242	0.001359	0.06045	0.281180 ± 0.000010	-2.8 ± 0.3	—	-18.3	3.12	0.0020210 ± 0.0091	8.0 ± 0.11
26.2	—	1818 ± 16	0.70	0.281774	0.001514	0.06716	0.281722 ± 0.000008	3.4 ± 0.3	—	0.4	2.29	0.0020169 ± 0.0100	6.0 ± 0.12
28.1	—	2373 ± 10	1.17	0.281220	0.001095	0.05070	0.281170 ± 0.000012	-3.5 ± 0.4	—	-18.8	3.15	0.0020201 ± 0.0091	7.5 ± 0.11
GSWA 178029: Pimbyana Granite, biotite monzogranite													
<i>magmatic</i>													
1.1	centre	1689 ± 27	1.07	0.281558	0.001108	0.05184	0.281523 ± 0.000010	-6.6 ± 0.3	—	—	2.82	0.0020210 ± 0.0124	8.0 ± 0.16
	edge			0.281535	0.001827	0.07056	0.281477 ± 0.000012	-8.3 ± 0.4	—	—	2.92	0.0020215 ± 0.0072	8.2 ± 0.12
3.1	—	1664 ± 17	0.51	0.281560	0.001055	0.04820	0.281527 ± 0.000010	-7.1 ± 0.3	—	—	2.83	0.0020210 ± 0.0089	8.0 ± 0.13
4.1	—	1653 ± 28	1.85	0.281498	0.001348	0.04415	0.281456 ± 0.000016	-9.8 ± 0.6	—	—	2.99	0.0020206 ± 0.0077	7.8 ± 0.12
7.1	—	1704 ± 28	1.91	0.281606	0.001123	0.03925	0.281570 ± 0.000010	-4.6 ± 0.3	—	—	2.71	—	—
8.1	—	1701 ± 27	1.26	0.281559	0.001653	0.06136	0.281506 ± 0.000014	-7.0 ± 0.5	—	—	2.85	0.0020218 ± 0.0069	8.4 ± 0.12
9.1	—	1694 ± 21	0.48	0.281599	0.000967	0.05184	0.281568 ± 0.000010	-4.9 ± 0.3	—	—	2.72	—	—
11.1	—	1696 ± 16	0.44	0.281585	0.001379	0.06753	0.281541 ± 0.000010	-5.8 ± 0.4	—	—	2.78	0.0020225 ± 0.0086	8.7 ± 0.13
12.1	—	1674 ± 20	0.61	0.281573	0.000992	0.04848	0.281542 ± 0.000010	-6.3 ± 0.3	—	—	2.79	—	—
13.1	—	1696 ± 18	0.08	0.281524	0.000438	0.01454	0.281510 ± 0.000012	-6.9 ± 0.4	—	—	2.85	—	—
15.1	—	1650 ± 20	0.48	0.281516	0.001752	0.06794	0.281461 ± 0.000019	-9.7 ± 0.7	—	—	2.98	0.0020232 ± 0.0087	9.1 ± 0.13
16.1	—	1667 ± 21	0.40	0.281633	0.001325	0.05144	0.281591 ± 0.000017	-4.7 ± 0.6	—	—	2.68	0.0020229 ± 0.0097	9.0 ± 0.14
20.1	—	1677 ± 25	2.00	0.281769	0.001280	0.06623	0.281728 ± 0.000012	0.4 ± 0.4	—	—	2.37	—	—
21.1	—	1661 ± 19	0.49	0.281734	0.000798	0.03985	0.281709 ± 0.000024	-0.7 ± 0.8	—	—	2.42	—	—
23.1	—	1684 ± 52	1.12	0.281596	0.000813	0.03864	0.281570 ± 0.000009	-5.1 ± 0.3	—	—	2.72	—	—
24.1	—	1653 ± 17	0.36	0.281570	0.001163	0.05730	0.281534 ± 0.000008	-7.1 ± 0.3	—	—	2.82	0.0020238 ± 0.0086	9.4 ± 0.13
<i>inherited</i>													
25.1	—	1742 ± 45	0.25	0.281595	0.002143	0.09633	0.281524 ± 0.000012	-5.4 ± 0.4	—	-6.7	2.78	—	—
5.1	—	1709 ± 32	1.60	0.281501	0.002066	0.08058	0.281434 ± 0.000022	-9.3 ± 0.8	—	-9.9	3.01	0.0020228 ± 0.0082	8.9 ± 0.13
14.1	—	1711 ± 33	1.90	0.281497	0.001468	0.05406	0.281449 ± 0.000018	-8.7 ± 0.6	—	-9.4	2.97	0.0020217 ± 0.0097	8.3 ± 0.14
17.1	—	1717 ± 47	2.08	0.281687	0.000709	0.03214	0.281664 ± 0.000005	-1.0 ± 0.2	—	-1.8	2.48	—	—
19.1	—	1753 ± 17	0.36	0.281662	0.001392	0.06542	0.281616 ± 0.000009	-1.9 ± 0.3	—	-3.5	2.57	0.0020231 ± 0.0083	9.0 ± 0.13

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a)(b)	$\delta^{18}\text{O}$ (c)
GSWA 169062: Dingo Creek Granite, porphyritic syenogranite													
<i>magmatic</i>													
2.1	—	1660 ± 17	0.45	0.281650	0.000404	0.01763	0.281637 ± 0.000035	-3.2 ± 1.2	—	—	2.58	—	—
3.1	centre	1632 ± 30	1.61	0.281500	0.000018	0.00101	0.281499 ± 0.000011	-8.8 ± 0.4	—	—	2.91	0.0020265 ± 0.0134	9.5 ± 0.14
	edge			0.281520	0.000020	0.00117	0.281519 ± 0.000012	-8.0 ± 0.4	—	—	2.87	0.0020262 ± 0.0173	9.3 ± 0.18
4.1	—	1687 ± 7	0.23	0.281596	0.000712	0.03358	0.281573 ± 0.000029	-4.9 ± 1.0	—	—	2.71	—	—
14.1	centre	1693 ± 11	0.22	0.281581	0.000728	0.02768	0.281558 ± 0.000013	-5.3 ± 0.5	—	—	2.74	0.0020245 ± 0.0130	8.4 ± 0.14
	edge			0.281596	0.000667	0.02839	0.281575 ± 0.000013	-4.7 ± 0.5	—	—	2.70	0.0020242 ± 0.0162	8.3 ± 0.17
15.1	—	1659 ± 14	0.67	0.281623	0.000071	0.00270	0.281621 ± 0.000009	-3.8 ± 0.3	—	—	2.62	—	—
16.1	centre	1660 ± 42	1.77	0.281484	0.000021	0.00120	0.281483 ± 0.000012	-8.7 ± 0.4	—	—	2.93	0.0020254 ± 0.0135	8.9 ± 0.14
	edge			0.281457	0.000020	0.00121	0.281456 ± 0.000011	-9.6 ± 0.4	—	—	2.99	0.0020256 ± 0.0099	9.0 ± 0.11
18.1	centre	1680 ± 11	1.55	0.281558	0.000582	0.02604	0.281539 ± 0.000010	-6.2 ± 0.3	—	—	2.79	0.0020235 ± 0.0072	7.9 ± 0.08
	edge			0.281550	0.000654	0.02905	0.281529 ± 0.000013	-6.6 ± 0.5	—	—	2.81	0.0020236 ± 0.0163	8.0 ± 0.17
19.1	centre	1669 ± 12	0.90	0.281594	0.000505	0.02318	0.281578 ± 0.000013	-5.1 ± 0.5	—	—	2.71	0.0020230 ± 0.0099	7.7 ± 0.11
	edge			0.281543	0.000597	0.02780	0.281524 ± 0.000023	-7.0 ± 0.8	—	—	2.83	0.0020233 ± 0.0099	7.9 ± 0.11
21.1	—	1656 ± 24	1.65	0.281462	0.000010	0.00103	0.281462 ± 0.000008	-9.5 ± 0.3	—	—	2.98	0.0020254 ± 0.0161	8.9 ± 0.17
22.1	centre	1686 ± 14	2.27	0.281447	0.000015	0.00098	0.281447 ± 0.000006	-9.4 ± 0.2	—	—	2.99	0.0020262 ± 0.0082	9.3 ± 0.09
	edge			0.281435	0.000020	0.00111	0.281434 ± 0.000007	-9.8 ± 0.2	—	—	3.02	0.0020248 ± 0.0104	8.6 ± 0.11
23.1	centre	1686 ± 22	1.67	0.281436	0.000023	0.00120	0.281435 ± 0.000014	-9.8 ± 0.5	—	—	3.02	0.0020257 ± 0.0081	9.0 ± 0.09
	edge			0.281451	0.000019	0.00112	0.281450 ± 0.000010	-9.3 ± 0.4	—	—	2.99	0.0020253 ± 0.0144	8.9 ± 0.15
25.1	centre	1679 ± 5	0.15	0.281547	0.000927	0.04029	0.281518 ± 0.000011	-7.0 ± 0.4	—	—	2.84	0.0020225 ± 0.0133	7.4 ± 0.14
	edge			0.281610	0.001028	0.04570	0.281577 ± 0.000009	-4.9 ± 0.3	—	—	2.71	0.0020224 ± 0.0107	7.4 ± 0.11
26.1	—	1679 ± 8	1.14	0.281561	0.000119	0.00613	0.281557 ± 0.000006	-5.6 ± 0.2	—	—	2.75	0.0020281 ± 0.0170	10.3 ± 0.18
<i>inherited</i>													
11.1	—	1779 ± 22	0.30	0.281528	0.001396	0.06150	0.281481 ± 0.000023	-6.1 ± 0.8	—	-8.2	2.86	0.0020244 ± 0.0123	8.4 ± 0.13
13.1	—	1767 ± 24	0.94	0.281520	0.001147	0.05259	0.281482 ± 0.000006	-6.3 ± 0.2	—	-8.2	2.86	0.0020258 ± 0.0110	9.1 ± 0.12
17.1	—	1783 ± 19	0.59	0.281451	0.001336	0.06034	0.281406 ± 0.000015	-8.7 ± 0.5	—	-10.9	3.02	0.0020250 ± 0.0105	8.7 ± 0.11
27.1	—	1781 ± 16	0.60	0.281500	0.000949	0.04338	0.281468 ± 0.000013	-6.5 ± 0.5	—	-8.7	2.88	0.0020262 ± 0.0091	9.3 ± 0.10
GSWA 169055: Yangibana Granite, biotite–muscovite monzogranite													
<i>magmatic</i>													
3.1	—	1665 ± 20	0.97	0.281632	0.000364	0.01471	0.281621 ± 0.000008	-3.7 ± 0.3	—	—	2.62	0.0020251 ± 0.0091	10.1 ± 0.21
4.1	—	1678 ± 21	0.2	0.281739	0.000980	0.04689	0.281708 ± 0.000014	-0.3 ± 0.5	—	—	2.41	0.0020249 ± 0.0096	10.0 ± 0.21
8.1	—	1657 ± 15	0.79	0.281588	0.000276	0.01139	0.281579 ± 0.000013	-5.3 ± 0.5	—	—	2.72	0.0020248 ± 0.0080	10.0 ± 0.20
9.1	—	1650 ± 12	0.41	0.281572	0.000235	0.01254	0.281565 ± 0.000010	-6.0 ± 0.3	—	—	2.75	0.0020250 ± 0.0075	10.1 ± 0.20
10.1	centre	1667 ± 18	0.59	0.281535	0.001239	0.04777	0.281496 ± 0.000015	-8.1 ± 0.5	—	—	2.90	0.0020258 ± 0.0067	10.5 ± 0.20
	edge			0.281544	0.000954	0.04702	0.281514 ± 0.000017	-7.4 ± 0.6	—	—	2.86	0.0020243 ± 0.0081	9.7 ± 0.20
11.1	—	1677 ± 13	0.16	0.281587	0.000753	0.03124	0.281563 ± 0.000025	-5.5 ± 0.9	—	—	2.74	0.0020253 ± 0.0104	10.2 ± 0.21
13.1	—	1669 ± 18	0.97	0.281643	0.000154	0.00689	0.281638 ± 0.000011	-3.0 ± 0.4	—	—	2.58	0.0020249 ± 0.0077	10.1 ± 0.20
17.1	centre	1673 ± 29	2.18	0.281551	0.000597	0.02308	0.281532 ± 0.000018	-6.7 ± 0.6	—	—	2.81	0.0020258 ± 0.0098	10.5 ± 0.21
	edge			0.281599	0.000359	0.01859	0.281588 ± 0.000011	-4.7 ± 0.4	—	—	2.69	0.0020253 ± 0.0088	10.2 ± 0.20

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a/b)	$\delta^{18}\text{O}$ (c)
inherited													
2.1	—	2616 ± 8	0.27	0.281083	0.000626	0.02332	0.281052 ± 0.000010	-2.1 ± 0.3	—	-23.2	3.25	—	—
5.1	—	1845 ± 25	0.93	0.281584	0.001089	0.04385	0.281546 ± 0.000011	-2.3 ± 0.4	—	-5.9	2.67	0.0020174 ± 0.0071	6.3 ± 0.20
14.1	—	2683 ± 11	0.69	0.281657	0.000199	0.01066	0.281647 ± 0.000010	20.6 ± 0.3	—	-2.3	1.84	0.0020251 ± 0.0071	10.1 ± 0.20
18.1	—	2427 ± 6	0.17	0.281568	0.000170	0.00918	0.281560 ± 0.000008	11.6 ± 0.3	—	-5.4	2.23	0.0020245 ± 0.0097	9.8 ± 0.21
southern Capricorn Orogen													
<i>Davey Well batholith</i>													
GSWA 183215: Davey Well Granite, coarse grained porphyritic biotite monzogranite													
magmatic													
1.1	—	1671 ± 5	0.28	0.281526	0.000705	0.022900	0.281504 ± 0.000013	-7.7 ± 0.5	—	—	2.88	—	—
4.1	centre	1655 ± 41	1.69	0.281506	0.000462	0.017290	0.281492 ± 0.000016	-8.5 ± 0.6	—	—	2.91	0.0020187 ± 0.0105	9.2 ± 0.11
	edge			0.281530	0.000690	0.026534	0.281508 ± 0.000016	-7.9 ± 0.6	—	—	2.88	0.0020176 ± 0.0067	8.7 ± 0.07
6.1	—	1674 ± 7	0.82	0.281523	0.000719	0.026862	0.281500 ± 0.000019	-7.8 ± 0.7	—	—	2.88	—	—
8.1	centre	1661 ± 23	1.47	0.281542	0.000495	0.019105	0.281526 ± 0.000012	-7.1 ± 0.4	—	—	2.83	0.0020187 ± 0.0093	9.2 ± 0.10
	edge			0.281516	0.000697	0.027257	0.281494 ± 0.000014	-8.3 ± 0.5	—	—	2.90	0.0020162 ± 0.0067	8.0 ± 0.07
11.1	—	1641 ± 43	1.03	0.281565	0.000454	0.018174	0.281551 ± 0.000013	-6.7 ± 0.5	—	—	2.79	—	—
13.1	—	1673 ± 16	1.60	0.281536	0.000552	0.021061	0.281519 ± 0.000022	-7.1 ± 0.8	—	—	2.84	—	—
16.1	centre	1698 ± 14	1.27	0.281551	0.000569	0.021834	0.281533 ± 0.000019	-6.1 ± 0.7	—	—	2.79	0.0020186 ± 0.0083	9.1 ± 0.09
	edge			0.281535	0.000659	0.026197	0.281514 ± 0.000013	-6.7 ± 0.5	—	—	2.84	0.0020181 ± 0.0067	8.9 ± 0.07
18.2	—	1670 ± 5	0.87	0.281560	0.000726	0.029913	0.281537 ± 0.000018	-6.6 ± 0.6	—	—	2.80	—	—
23.1	—	1642 ± 14	1.38	0.281515	0.000817	0.033271	0.281490 ± 0.000024	-8.9 ± 0.8	—	—	2.93	0.0020171 ± 0.0078	8.4 ± 0.08
23.2	—	1658 ± 9	1.13	0.281559	0.000726	0.029516	0.281536 ± 0.000017	-6.9 ± 0.6	—	—	2.81	0.0020179 ± 0.0089	8.8 ± 0.09
25.1	—	1668 ± 16	1.12	0.281516	0.000536	0.021006	0.281499 ± 0.000009	-7.9 ± 0.3	—	—	2.89	0.0020182 ± 0.0118	8.9 ± 0.12
26.1	centre	1663 ± 7	0.83	0.281528	0.000696	0.026351	0.281506 ± 0.000007	-7.8 ± 0.2	—	—	2.88	0.0020178 ± 0.0100	8.7 ± 0.10
	edge			0.281534	0.000749	0.028663	0.281510 ± 0.000008	-7.7 ± 0.3	—	—	2.87	0.0020175 ± 0.0075	8.6 ± 0.08
27.1	—	1649 ± 12	1.26	0.281548	0.000608	0.023200	0.281529 ± 0.000010	-7.3 ± 0.3	—	—	2.83	—	—
28.1	centre	1677 ± 13	0.96	0.281530	0.000613	0.020439	0.281511 ± 0.000007	-7.3 ± 0.2	—	—	2.86	0.0020182 ± 0.0085	9.0 ± 0.09
	edge			0.281555	0.000443	0.014765	0.281541 ± 0.000007	-6.3 ± 0.2	—	—	2.79	0.0020162 ± 0.0128	7.9 ± 0.13
30.1	—	1647 ± 14	1.22	0.281543	0.000718	0.024128	0.281521 ± 0.000007	-7.7 ± 0.2	—	—	2.85	—	—
GSWA 183207: Tetlow Granite, metatonalite/quartz diorite													
magmatic													
4.1	—	1659 ± 26	1.15	0.281535	0.000597	0.020787	0.281516 ± 0.000008	-7.5 ± 0.3	—	—	2.86	—	—
7.1	—	1707 ± 20	1.06	0.281546	0.000540	0.019497	0.281529 ± 0.000009	-6.0 ± 0.3	—	—	2.80	—	—
9.1	—	1687 ± 18	1.37	0.281526	0.000554	0.020035	0.281508 ± 0.000008	-7.2 ± 0.3	—	—	2.86	—	—
10.1	—	1698 ± 21	1.21	0.281540	0.000711	0.021247	0.281517 ± 0.000007	-6.6 ± 0.2	—	—	2.83	—	—
12.1	—	1665 ± 12	1.26	0.281544	0.000692	0.022252	0.281522 ± 0.000007	-7.2 ± 0.2	—	—	2.84	—	—
15.1	centre	1649 ± 17	0.92	0.281575	0.000550	0.020270	0.281558 ± 0.000010	-6.3 ± 0.4	—	—	2.77	0.0020184 ± 0.0104	9.6 ± 0.11
	edge			0.281539	0.000793	0.026534	0.281514 ± 0.000009	-7.8 ± 0.3	—	—	2.87	0.0020179 ± 0.0093	9.3 ± 0.10
16.1	centre	1656 ± 7	1.00	0.281562	0.000500	0.017996	0.281546 ± 0.000012	-6.5 ± 0.4	—	—	2.79	0.0020187 ± 0.0094	9.7 ± 0.10
	edge			0.281542	0.000559	0.020272	0.281524 ± 0.000007	-7.3 ± 0.2	—	—	2.84	0.0020186 ± 0.0105	9.7 ± 0.11

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ (a/b)	$\delta^{18}\text{O}$ (c)
17.1	—	1664 ± 12	1.37	0.281565	0.000452	0.017467	0.281551 ± 0.000013	-6.2 ± 0.5	—	—	2.77	—	—
20.1	—	1659 ± 12	1.44	0.281552	0.000802	0.025936	0.281527 ± 0.000009	-7.2 ± 0.3	—	—	2.83	—	—
21.1	centre	1653 ± 19	0.95	0.281557	0.000410	0.016139	0.281544 ± 0.000009	-6.7 ± 0.3	—	—	2.80	0.0020186 ± 0.0090	9.7 ± 0.09
	edge			0.281579	0.000561	0.014941	0.281561 ± 0.000010	-6.1 ± 0.3	—	—	2.76	0.0020187 ± 0.0109	9.7 ± 0.11
22.1	centre	1654 ± 11	1.23	0.281544	0.000580	0.023676	0.281526 ± 0.000010	-7.3 ± 0.3	—	—	2.84	0.0020188 ± 0.0104	9.8 ± 0.11
	edge			0.281566	0.000619	0.021289	0.281547 ± 0.000007	-6.6 ± 0.2	—	—	2.79	0.0020191 ± 0.0091	9.6 ± 0.10
25.1	—	1662 ± 4	0.45	0.281564	0.000930	0.032569	0.281535 ± 0.000007	-6.8 ± 0.3	—	—	2.81	—	—
inherited													
8.1	—	2453	6	0.281213	0.000878	0.031816	0.281172 ± 0.000009	-1.6 ± 0.3	—	-19.5	3.09	—	—
GSWA 185944: Davey Well Granite, porphyritic monzogranite													
magmatic													
2.1	—	1591 ± 33	1.77	0.281480	0.000506	0.018040	0.281465 ± 0.000014	-10.9 ± 0.5	—	—	3.01	—	—
12.1	—	1681 ± 22	2.45	0.281519	0.000660	0.018882	0.281498 ± 0.000012	-7.7 ± 0.4	—	—	2.88	—	—
18.1	—	1610 ± 32	1.56	0.281494	0.000952	0.026806	0.281465 ± 0.000009	-10.5 ± 0.3	—	—	3.00	—	—
21.1	centre	1652 ± 24	1.64	0.281530	0.000651	0.021579	0.281510 ± 0.000041	-7.9 ± 1.4	—	—	2.87	—	—
	edge			0.281554	0.000494	0.015276	0.281539 ± 0.000026	-6.9 ± 0.9	—	—	2.81	—	—
22.1	centre	1653 ± 61	2.97	0.281553	0.000692	0.023427	0.281531 ± 0.000026	-7.1 ± 0.9	—	—	2.83	0.0020155 ± 0.0086	7.2 ± 0.09
	edge			0.281518	0.000530	0.016059	0.281501 ± 0.000024	-8.2 ± 0.8	—	—	2.89	0.0020146 ± 0.0068	6.8 ± 0.07
24.1	centre	1633 ± 18	1.30	0.281669	0.000865	0.029687	0.281642 ± 0.000039	-3.7 ± 1.4	—	—	2.59	0.0020157 ± 0.0085	7.3 ± 0.09
	edge			0.281514	0.000687	0.022640	0.281493 ± 0.000038	-9.0 ± 1.3	—	—	2.93	0.0020150 ± 0.0077	7.0 ± 0.08
27.1	centre	1667 ± 17	1.81	0.281458	0.001654	0.054282	0.281406 ± 0.000025	-11.3 ± 0.9	—	—	3.10	0.0020152 ± 0.0088	7.1 ± 0.09
	edge			0.281485	0.000590	0.018749	0.281466 ± 0.000028	-9.1 ± 1.0	—	—	2.96	0.0020147 ± 0.0085	6.8 ± 0.09
28.1	centre	1673 ± 17	1.36	0.281520	0.000343	0.010977	0.281509 ± 0.000014	-7.5 ± 0.5	—	—	2.86	0.0020152 ± 0.0092	7.0 ± 0.10
	edge			0.281525	0.000579	0.018337	0.281507 ± 0.000019	-7.6 ± 0.7	—	—	2.87	0.0020146 ± 0.0098	6.8 ± 0.10
29.1	centre	1649 ± 46	2.07	0.281525	0.000663	0.022561	0.281504 ± 0.000013	-8.2 ± 0.5	—	—	2.89	0.0020157 ± 0.0103	7.3 ± 0.11
	edge			0.281500	0.000796	0.027377	0.281475 ± 0.000013	-9.2 ± 0.5	—	—	2.95	0.0020153 ± 0.0096	7.1 ± 0.10
32.1	—	1586 ± 29	1.59	0.281440	0.000507	0.017385	0.281425 ± 0.000015	-12.4 ± 0.5	—	—	3.11	—	—
inherited													
5.1	—	2116 ± 10	0.55	0.281503	0.000680	0.024626	0.281476 ± 0.000020	1.4 ± 0.7	—	-9.0	2.64	0.0020100 ± 0.0080	4.5 ± 0.08
9.1	—	2125 ± 15	0.30	0.281155	0.000075	0.002723	0.281152 ± 0.000008	-9.9 ± 0.3	—	-20.7	3.36	0.0020159 ± 0.0066	7.4 ± 0.07
Discretion Granite													
GSWA 142855: porphyritic monzogranite													
magmatic													
2.1	—	1619 ± 42	1.62	0.281434	0.000734	0.028678	0.281412 ± 0.000013	-12.2 ± 0.5	—	—	3.12	—	—
3.1	—	1591 ± 36	2.92	0.281484	0.001490	0.052390	0.281439 ± 0.000010	-11.8 ± 0.4	—	—	3.07	—	—
4.1	—	1634 ± 31	3.64	0.281515	0.001635	0.068110	0.281464 ± 0.000021	-9.9 ± 0.7	—	—	2.99	—	—
5.1	—	1561 ± 45	1.78	0.281433	0.000823	0.031433	0.281409 ± 0.000017	-13.6 ± 0.6	—	—	3.16	—	—
7.1	—	1625 ± 172	2.62	0.281437	0.000639	0.024201	0.281417 ± 0.000015	-11.8 ± 0.5	—	—	3.10	0.0020144 ± 0.0067	7.1 ± 0.07
8.1	—	1639 ± 31	2.97	0.281553	0.001456	0.057383	0.281508 ± 0.000019	-8.3 ± 0.7	—	—	2.89	0.0020143 ± 0.0073	7.1 ± 0.08

Analysis No.	Spot location	$^{207}\text{Pb}/^{206}\text{Pb}$ date (Ma)	Th/U	$^{176}\text{Hf}/^{177}\text{Hf}$ measured	$^{176}\text{Lu}/^{177}\text{Hf}$ measured	$^{176}\text{Yb}/^{177}\text{Hf}$ measured	$^{176}\text{Hf}/^{177}\text{Hf}$ initial	$\varepsilon_{\text{Hf}(t)}$	$\varepsilon_{\text{Hf}(1800\text{ Ma})}$	$\varepsilon_{\text{Hf}(1650\text{ Ma})}$	$T_{\text{DM}2}$ (Ga)	$^{18}\text{O}/^{16}\text{O}$ ^{(a)(b)}	$\delta^{18}\text{O}$ ^(c)
10.1	centre	1682 \pm 63	2.32	0.281429	0.000735	0.027279	0.281406 \pm 0.000018	-10.9 \pm 0.6	–	–	3.09	0.0020147 \pm 0.0082	7.3 \pm 0.09
	edge			0.281412	0.000565	0.016494	0.281394 \pm 0.000016	-11.4 \pm 0.6	–	–	3.11	0.0020128 \pm 0.0077	6.3 \pm 0.08
14.1	centre	1597 \pm 42	1.91	0.281508	0.000994	0.038911	0.281478 \pm 0.000016	-10.3 \pm 0.6	–	–	2.98	0.0020140 \pm 0.0099	7.2 \pm 0.09
	edge			0.281400	0.000578	0.018457	0.281383 \pm 0.000017	-13.7 \pm 0.6	–	–	3.19	0.0020137 \pm 0.0085	6.8 \pm 0.09
17.1	centre	1623 \pm 43	2.00	0.281485	0.000689	0.027376	0.281464 \pm 0.000025	-10.2 \pm 0.9	–	–	3.00	0.0020140 \pm 0.0099	7.0 \pm 0.10
	edge			0.281435	0.000818	0.030479	0.281410 \pm 0.000014	-12.1 \pm 0.5	–	–	3.12	0.0020134 \pm 0.0085	6.6 \pm 0.09
20.1	centre	1629 \pm 25	1.85	0.281400	0.001366	0.052132	0.281358 \pm 0.000016	-13.8 \pm 0.6	–	–	3.23	0.0020139 \pm 0.0090	6.9 \pm 0.09
	edge			0.281463	0.000680	0.026502	0.281442 \pm 0.000014	-10.9 \pm 0.5	–	–	3.04	0.0020143 \pm 0.0090	7.1 \pm 0.09
24.1	centre	1629 \pm 50	1.65	0.281430	0.000793	0.029649	0.281406 \pm 0.000018	-12.2 \pm 0.6	–	–	3.12	0.0020134 \pm 0.0086	6.6 \pm 0.09
	edge			0.281405	0.000770	0.026143	0.281381 \pm 0.000016	-13.0 \pm 0.6	–	–	3.18	0.0020133 \pm 0.0071	6.6 \pm 0.07
25.1	centre	1664 \pm 46	2.27	0.281476	0.000814	0.031949	0.281450 \pm 0.000016	-9.8 \pm 0.6	–	–	3.00	0.0020147 \pm 0.0101	7.3 \pm 0.10
	edge			0.281446	0.000551	0.017234	0.281429 \pm 0.000011	-10.5 \pm 0.4	–	–	3.05	0.0020145 \pm 0.0088	7.2 \pm 0.09

NOTES: (a) Each δO^{18} uncertainty (1σ) represents the sum of counting statistics errors for each individual spot and the external error based on all standards analysed during the session, which were added in quadrature
(b) Background corrected raw ratios corrected for measured Faraday offsets and yields
(c) Normalized to a Pengali value of 5.3‰