

附表 1 水月寺混杂岩古元古代高压变泥质岩代表性矿物电子探针分析结果

**Appendix table 1 Representative mineral analyses result derived from EPMA for the Paleoproterozoic high-pressure metapelites from the Shuiyuesi mélangé**

Minerals	Gr <sub>t</sub>	Gr <sub>c</sub>	Gr <sub>r</sub>	Gr <sub>c</sub>	Phe <sub>1</sub>	Phe <sub>3</sub>	Phe <sub>1</sub>	Cld <sub>2</sub>	Cld <sub>3</sub>	Cld <sub>3</sub>	St <sub>1</sub>	St <sub>1</sub>	St <sub>3</sub>
No.	40	73	74	75	52	77	78	44	45	89	43	66	92
Na <sub>2</sub> O	0.00	0.03	0.01	0.03	2.07	2.46	2.22	0.00	0.02	0.01	0.05	0.01	0.03
SiO <sub>2</sub>	37.41	37.45	37.63	37.58	47.82	47.71	48.31	24.46	24.21	24.57	27.51	29.94	25.19
CaO	0.78	0.71	0.69	1.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
TiO <sub>2</sub>	0.00	0.00	0.00	0.01	0.20	0.14	0.31	0.01	0.00	0.00	0.27	0.34	0.44
FeO	38.67	39.69	40.07	39.11	0.84	1.32	1.63	24.19	24.42	24.08	13.39	13.81	14.01
Al <sub>2</sub> O <sub>3</sub>	20.75	20.76	20.69	20.64	35.36	36.78	34.98	39.40	39.36	39.03	52.94	50.90	54.64
MgO	2.29	1.67	2.16	1.81	0.22	0.17	0.25	2.26	2.16	2.10	1.07	1.16	0.81
K <sub>2</sub> O	0.00	0.01	0.00	0.00	8.71	8.31	8.85	0.00	0.00	0.00	0.00	0.01	0.00
MnO	0.23	0.34	0.38	0.48	0.00	0.00	0.04	0.07	0.05	0.03	0.03	0.00	0.04
Total	100.13	100.65	101.62	100.85	95.22	96.90	96.59	90.40	90.22	89.82	95.26	96.19	95.16
Na	0.00	0.00	0.00	0.00	0.26	0.31	0.28	0.00	0.00	0.00	0.01	0.00	0.00
Si	3.03	3.03	3.02	3.03	3.15	3.09	3.15	1.03	1.02	1.04	1.87	2.01	1.72
Ca	0.07	0.06	0.06	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ti	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.01	0.02	0.02
Fe	2.62	2.68	2.69	2.64	0.05	0.07	0.09	0.85	0.86	0.85	0.76	0.78	0.80
Al	1.98	1.98	1.95	1.96	2.74	2.81	2.69	1.96	1.96	1.95	4.23	4.03	4.40
Mg	0.28	0.20	0.26	0.22	0.02	0.02	0.02	0.14	0.14	0.13	0.11	0.12	0.08
K	0.00	0.00	0.00	0.00	0.73	0.69	0.74	0.00	0.00	0.00	0.00	0.00	0.00
Mn	0.02	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.98	7.98	8.00	7.99	6.96	6.99	6.99	3.99	3.99	3.98	6.99	6.95	7.03

附表 2 水月寺混杂岩古元古代高压变泥质岩 LA-ICP-MS 锆石 U-Pb 同位素分析结果

Appendix table 2 LA-ICP-MS zircon U-Pb isotope analysis of the Paleoproterozoic high-pressure metapelites from the Shuiyuesi mélange

	Th	U		Ratio	1sigma	Ratio	1sigma	Ratio	1sigma	Rho	Age (Ma)	1sigma	Age (Ma)	1sigma	Age (Ma)	1sigma	Concordance	
	ppm	ppm	Th/U	<sup>207</sup> Pb/ <sup>206</sup> Pb	<sup>207</sup> Pb/ <sup>206</sup> Pb	<sup>207</sup> Pb/ <sup>235</sup> U	<sup>207</sup> Pb/ <sup>235</sup> U	<sup>206</sup> Pb/ <sup>238</sup> U	<sup>206</sup> Pb/ <sup>238</sup> U		<sup>207</sup> Pb/ <sup>206</sup> Pb	<sup>207</sup> Pb/ <sup>206</sup> Pb	<sup>207</sup> Pb/ <sup>235</sup> U	<sup>207</sup> Pb/ <sup>235</sup> U	<sup>206</sup> Pb/ <sup>238</sup> U	<sup>206</sup> Pb/ <sup>238</sup> U		
13QL-04-01	58	187	0.31	0.198782	0.006061	16.128749	0.531536	0.578645	0.009087	0.665603	2816	50	2884	32	2943	37	1.02	c
13QL-04-22	150	392	0.38	0.191700	0.004246	14.490439	0.333541	0.544737	0.005000	0.494030	2757	37	2782	22	2803	21	1.01	c
13QL-04-03	406	648	0.63	0.190374	0.004260	14.469747	0.375067	0.543311	0.007145	0.841176	2745	37	2781	25	2797	30	1.01	c
13QL-04-38	115	515	0.22	0.191916	0.004539	14.274352	0.343502	0.534021	0.005631	0.598369	2759	39	2768	23	2758	24	1.00	c
13QL-04-24	250	472	0.53	0.188376	0.005053	13.241298	0.384478	0.505755	0.005953	0.709497	2728	44	2697	27	2638	26	0.98	c
13QL-04-12	407	788	0.52	0.165481	0.004069	10.795256	0.265820	0.469094	0.004084	0.400122	2513	41	2506	23	2480	18	0.99	c
13QL-04-31	381	487	0.78	0.154935	0.004306	9.890793	0.248674	0.459975	0.005136	0.269865	2401	48	2425	23	2439	23	1.01	c
13QL-04-05	338	716	0.47	0.152810	0.004235	9.482879	0.299754	0.442597	0.004911	0.721678	2377	48	2386	29	2362	22	0.99	c
13QL-04-16	154	395	0.39	0.149963	0.003320	9.459020	0.222721	0.453926	0.005146	0.585024	2346	38	2384	22	2413	23	1.01	c
13QL-04-32	348	1081	0.32	0.156660	0.003776	9.428644	0.236321	0.430850	0.005152	0.854043	2420	36	2381	23	2310	23	0.97	c
13QL-04-15	190	904	0.21	0.149397	0.003154	8.990553	0.210901	0.432135	0.004802	0.756681	2339	37	2337	21	2315	22	0.99	c
13QL-04-02	291	734	0.40	0.143109	0.003600	8.628218	0.239681	0.429484	0.005122	0.792986	2265	44	2300	25	2303	23	1.00	c
13QL-04-36	158	127	1.24	0.143656	0.005305	8.562668	0.299528	0.425423	0.006201	0.203953	2272	69	2293	32	2285	28	1.00	c
13QL-04-21	338	1111	0.30	0.144064	0.003176	8.061450	0.206213	0.401889	0.005207	0.825408	2277	38	2238	23	2178	24	0.97	c
13QL-04-34	132	165	0.80	0.138890	0.004083	8.029778	0.235347	0.416334	0.005297	0.351374	2213	52	2234	27	2244	24	1.00	c
13QL-04-33	54	999	0.05	0.137577	0.003111	7.857616	0.190204	0.408907	0.004853	0.811191	2198	39	2215	22	2210	22	1.00	c
13QL-04-04	139	873	0.16	0.133790	0.003055	7.812326	0.189970	0.418575	0.004217	0.633671	2150	39	2210	22	2254	19	1.02	c
13QL-04-23	75	76	0.99	0.137940	0.005449	7.774951	0.292557	0.410975	0.005723	0.069367	2202	69	2205	34	2219	26	1.01	c
13QL-04-14	282	1039	0.27	0.133262	0.002987	7.601364	0.183857	0.410029	0.004633	0.678019	2143	39	2185	22	2215	21	1.01	c
13QL-04-07	70	93	0.75	0.127617	0.005029	7.442709	0.291219	0.424357	0.006197	0.088120	2065	69	2166	35	2280	28	1.05	c
13QL-04-30	232	525	0.44	0.130795	0.003765	7.235474	0.198325	0.397256	0.004200	0.432886	2109	51	2141	24	2156	19	1.01	c
13QL-04-26	99	144	0.69	0.125375	0.004070	6.919197	0.223210	0.399334	0.004890	0.178609	2035	57	2101	29	2166	23	1.03	c
13QL-04-09	21	1029	0.02	0.128898	0.002788	6.888630	0.155745	0.385180	0.003999	0.565353	2083	38	2097	20	2100	19	1.00	c
13QL-04-25	220	430	0.51	0.119543	0.003395	6.784934	0.196932	0.410381	0.005070	0.361477	1950	50	2084	26	2217	23	1.06	c
13QL-04-11	189	953	0.20	0.126201	0.003049	6.766503	0.161644	0.386699	0.003738	0.171228	2056	43	2081	21	2107	17	1.01	c
13QL-04-27	28	947	0.03	0.123544	0.002802	6.527427	0.153797	0.380034	0.003845	0.611415	2009	40	2050	21	2076	18	1.01	r
13QL-04-39	37	1277	0.03	0.124840	0.002945	6.511376	0.148800	0.375051	0.003510	0.388633	2028	47	2047	20	2053	16	1.00	r
13QL-04-40	86	797	0.11	0.126891	0.003573	6.484925	0.180184	0.367832	0.004279	0.324694	2055	50	2044	24	2019	20	0.99	r
13QL-04-29	552	1144	0.48	0.125658	0.003099	6.454625	0.150529	0.369256	0.003379	0.465204	2039	43	2040	21	2026	16	0.99	r
13QL-04-35	3.7	660	0.01	0.123189	0.003176	6.343243	0.158787	0.369993	0.003567	0.413464	2003	41	2024	22	2029	17	1.00	r
13QL-04-06	10	784	0.01	0.117610	0.003111	6.260876	0.168480	0.384270	0.004374	0.303764	1920	48	2013	24	2096	20	1.04	r
13QL-04-19	4.9	795	0.01	0.120019	0.003146	6.221478	0.166011	0.373663	0.004114	0.398221	1967	47	2007	23	2047	19	1.02	r
13QL-04-17	4	870	0.005	0.120665	0.002759	6.155948	0.143292	0.367160	0.003371	0.447513	1966	41	1998	20	2016	16	1.01	r
13QL-04-08	15	763	0.02	0.118293	0.002830	6.064271	0.146237	0.369799	0.003312	0.094579	1931	43	1985	21	2028	16	1.02	r
13QL-04-18	6.2	823	0.01	0.120041	0.003058	6.037382	0.154567	0.362351	0.003722	0.402084	1967	45	1981	22	1993	18	1.01	r
13QL-04-13	5.7	1006	0.01	0.118708	0.002986	5.997691	0.153789	0.363508	0.003795	0.492700	1937	45	1976	22	1999	18	1.01	r
13QL-04-20	109	817	0.13	0.124007	0.002943	5.946716	0.151883	0.344775	0.003881	0.654243	2015	43	1968	22	1910	19	0.97	r
13QL-04-10	19	957	0.02	0.118954	0.002566	5.945212	0.130554	0.360216	0.003572	0.441422	1940	44	1968	19	1983	17	1.01	r
13QL-04-28	4.8	957	0.005	0.117533	0.002744	5.810518	0.131339	0.355887	0.003333	0.400075	1920	42	1948	20	1963	16	1.01	r
13QL-04-37	30	777	0.04	0.122887	0.003370	5.662707	0.148397	0.331246	0.002882	0.147590	1998	48	1926	23	1844	14	0.96	r