

Supplementary table.1 Zircon LA-ICP-MS U-Pb data of the LP and XP in the western section of the NQO

No ^a	Th	U	Th/U	Isotopicratios						Apparentages (Ma)						Concordance
				²⁰⁷ Pb/ ²⁰⁶ Pb		²⁰⁷ Pb/ ²³⁵ U		²⁰⁶ Pb/ ²³⁸ U		²⁰⁷ Pb/ ²⁰⁶ Pb		²⁰⁷ Pb/ ²³⁵ U		²⁰⁶ Pb/ ²³⁸ U		
					1σ		1σ		1σ		1σ		1σ		1σ	
Liqiao pluton TS19001-3																
1	1497	2237	0.67	0.0725	0.0235	0.7192	0.3430	0.0534	0.0011	1011	699	550	203	336	7	51%
2	1068	1406	0.76	0.0549	0.0021	0.5086	0.0187	0.0669	0.0008	409	90	418	13	417	5	99%
3	3459	2267	1.53	0.1013	0.0041	0.9377	0.0355	0.0669	0.0012	1650	75	672	19	418	7	53%
4	1369	1802	0.76	0.0556	0.0018	0.5369	0.0176	0.0695	0.0009	435	72	436	12	433	5	99%
5	4928	2494	1.98	0.0624	0.0022	0.5965	0.0202	0.0691	0.0011	687	76	475	13	430	7	90%
6	875	1020	0.86	0.0527	0.0021	0.5069	0.0206	0.0694	0.0011	322	93	416	14	432	6	96%
7	1438	1156	1.24	0.0571	0.0021	0.5529	0.0215	0.0698	0.0011	494	81	447	14	435	7	97%
8	1608	1474	1.09	0.0566	0.0020	0.5485	0.0206	0.0696	0.0012	476	78	444	14	434	7	97%
9	1078	2240	0.48	0.0551	0.0018	0.5345	0.0178	0.0697	0.0010	417	72	435	12	434	6	99%
10	1405	2104	0.67	0.0549	0.0018	0.5154	0.0174	0.0676	0.0010	406	74	422	12	422	6	99%
11	3006	1174	2.56	0.1334	0.0043	1.3260	0.0497	0.0708	0.0012	2144	56	857	22	441	7	35%
12	2044	1099	1.86	0.0532	0.0020	0.5148	0.0197	0.0697	0.0010	339	85	422	13	434	6	97%
13	1601	1789	0.89	0.0596	0.0019	0.5556	0.0183	0.0672	0.0010	587	70	449	12	420	6	93%
14	6775	3198	2.12	0.1090	0.0042	0.6030	0.0215	0.0404	0.0006	1783	64	479	14	255	4	38%
15	2047	2187	0.94	0.0572	0.0020	0.5522	0.0189	0.0696	0.0010	498	76	446	12	433	6	97%
16	1958	2411	0.81	0.0580	0.0036	0.5502	0.0320	0.0682	0.0018	532	137	445	21	425	11	95%
17	1403	1631	0.86	0.0549	0.0021	0.5309	0.0206	0.0695	0.0010	409	87	432	14	433	6	99%
18	2420	2590	0.93	0.0598	0.0036	0.5713	0.0331	0.0687	0.0016	594	130	459	21	428	10	93%
19	924	1125	0.82	0.0528	0.0020	0.5072	0.0199	0.0691	0.0012	320	85	417	13	431	7	96%
20	1633	2806	0.58	0.0536	0.0017	0.5152	0.0165	0.0690	0.0008	367	75	422	11	430	5	98%

21	1191	1694	0.70	0.0551	0.0017	0.5272	0.0172	0.0689	0.0010	413	69	430	11	429	6	99%
22	1448	2181	0.66	0.0582	0.0019	0.5628	0.0191	0.0695	0.0009	539	72	453	12	433	5	95%
23	1797	1907	0.94	0.0607	0.0020	0.5862	0.0202	0.0693	0.0009	632	66	468	13	432	6	91%
24	1129	1584	0.71	0.0541	0.0019	0.5202	0.0185	0.0692	0.0009	376	80	425	12	431	6	98%
25	928	1294	0.72	0.0561	0.0020	0.5401	0.0208	0.0693	0.0011	457	114	438	14	432	7	98%

Liqaiio pluton TS19007-2

1	676	439	1.54	0.0588	0.0044	0.5423	0.0371	0.0676	0.0012	567	168	440	24	421	7	95%
2	2595	4094	0.63	0.1017	0.0043	0.9915	0.0429	0.0698	0.0009	1655	78	700	22	435	5	53%
3	557	1514	0.37	0.0552	0.0020	0.5294	0.0195	0.0691	0.0008	420	77	431	13	431	5	99%
4	584	973	0.60	0.0623	0.0024	0.5931	0.0219	0.0687	0.0009	687	77	473	14	428	5	90%
5	543	341	1.59	0.0622	0.0037	0.5838	0.0347	0.0681	0.0015	680	130	467	22	425	9	90%
6	299	1435	0.21	0.0553	0.0021	0.5317	0.0197	0.0690	0.0010	433	83	433	13	430	6	99%
7	1018	2383	0.43	0.0558	0.0020	0.5395	0.0197	0.0691	0.0010	456	80	438	13	431	6	98%
8	980	972	1.01	0.0596	0.0023	0.5724	0.0214	0.0693	0.0012	591	83	460	14	432	7	93%
9	1269	1416	0.90	0.0549	0.0018	0.5307	0.0174	0.0693	0.0009	409	76	432	12	432	5	99%
10	1383	1937	0.71	0.0550	0.0019	0.5278	0.0173	0.0688	0.0009	413	71	430	12	429	5	99%
11	1455	2259	0.64	0.0552	0.0017	0.5319	0.0164	0.0691	0.0009	420	69	433	11	430	5	99%
12	3153	2748	1.15	0.0614	0.0021	0.5888	0.0217	0.0683	0.0009	654	69	470	14	426	5	90%
13	2283	2939	0.78	0.0609	0.0018	0.5891	0.0185	0.0690	0.0010	635	63	470	12	430	6	91%
14	1019	1263	0.81	0.0549	0.0019	0.5307	0.0179	0.0693	0.0009	406	78	432	12	432	6	99%
15	1847	2205	0.84	0.0812	0.0038	0.6668	0.0232	0.0611	0.0012	1226	93	519	14	383	7	69%
16	1139	1416	0.80	0.0549	0.0026	0.5301	0.0245	0.0688	0.0010	409	112	432	16	429	6	99%
17	1569	1537	1.02	0.0601	0.0023	0.5809	0.0210	0.0692	0.0011	606	83	465	13	431	6	92%
18	823	2011	0.41	0.0597	0.0024	0.5793	0.0241	0.0691	0.0011	591	87	464	15	430	6	92%
19	646	396	1.63	0.0611	0.0034	0.5777	0.0318	0.0675	0.0011	643	125	463	20	421	7	90%
20	792	1095	0.72	0.0574	0.0021	0.5561	0.0208	0.0690	0.0010	509	77	449	14	430	6	95%

21	581	949	0.61	0.0588	0.0022	0.6492	0.0238	0.0789	0.0011	567	81	508	15	489	6	96%
22	1290	1904	0.68	0.0582	0.0020	0.5598	0.0190	0.0691	0.0011	600	76	451	12	430	7	95%
23	290	693	0.42	0.0581	0.0022	0.5602	0.0206	0.0690	0.0010	600	83	452	13	430	6	95%
24	824	1355	0.61	0.0568	0.0019	0.5475	0.0182	0.0690	0.0009	483	81	443	12	430	5	97%
25	1772	1865	0.95	0.0573	0.0019	0.5544	0.0184	0.0690	0.0008	502	74	448	12	430	5	95%

Xianping pluton TS19014-1

1	1365	3052	0.45	0.0515	0.0019	0.4924	0.0181	0.0685	0.0011	265	85	407	12	427	6	95%
2	526	1109	0.47	0.0527	0.0020	0.5056	0.0183	0.0689	0.0010	317	118	415	12	429	6	96%
3	415	692	0.60	0.0527	0.0024	0.4969	0.0220	0.0679	0.0010	317	104	410	15	423	6	96%
4	1551	2317	0.67	0.0564	0.0019	0.5350	0.0174	0.0682	0.0009	478	72	435	12	425	6	97%
5	2024	5425	0.37	0.0546	0.0019	0.4970	0.0160	0.0655	0.0008	394	81	410	11	409	5	99%
6	1422	3678	0.39	0.0517	0.0052	0.5152	0.0965	0.0553	0.0023	333	225	422	65	347	14	80%
7	653	2075	0.31	0.0551	0.0017	0.5310	0.0174	0.0693	0.0010	417	72	432	12	432	6	99%
8	584	1539	0.38	0.0548	0.0017	0.5090	0.0158	0.0669	0.0008	406	64	418	11	418	5	99%
9	594	1127	0.53	0.0551	0.0020	0.5223	0.0187	0.0684	0.0009	417	77	427	13	426	5	99%
10	674	1680	0.40	0.0571	0.0018	0.5344	0.0173	0.0674	0.0008	494	64	435	11	421	5	96%
11	1282	2983	0.43	0.0556	0.0020	0.5214	0.0192	0.0677	0.0009	439	81	426	13	423	5	99%
12	1815	7797	0.23	0.0565	0.0021	0.5297	0.0197	0.0679	0.0015	472	80	432	13	423	9	98%
13	1337	1906	0.70	0.0572	0.0019	0.5301	0.0189	0.0669	0.0010	498	68	432	13	417	6	96%
14	820	1502	0.55	0.0611	0.0026	0.5570	0.0232	0.0660	0.0010	644	97	450	15	412	6	91%
15	1090	2446	0.45	0.0585	0.0019	0.5445	0.0175	0.0674	0.0009	550	70	441	12	421	6	95%
16	660	1478	0.45	0.0556	0.0018	0.5177	0.0171	0.0674	0.0009	435	74	424	11	420	5	99%
17	1698	6610	0.26	0.0563	0.0015	0.5265	0.0149	0.0675	0.0009	465	29	429	10	421	5	98%
18	823	1637	0.50	0.0563	0.0023	0.5193	0.0208	0.0667	0.0011	465	89	425	14	416	7	97%
19	2830	4359	0.65	0.0554	0.0016	0.5249	0.0157	0.0683	0.0010	432	65	428	10	426	6	99%
20	1430	3390	0.42	0.0575	0.0018	0.5455	0.0174	0.0685	0.0010	509	67	442	11	427	6	96%

21	342	815	0.42	0.0550	0.0024	0.5055	0.0215	0.0663	0.0009	413	100	415	14	414	5	99%
22	1413	3551	0.40	0.0548	0.0020	0.5141	0.0185	0.0675	0.0009	467	81	421	12	421	6	99%
23	3117	9684	0.32	0.0556	0.0017	0.5263	0.0157	0.0682	0.0008	435	70	429	10	425	5	99%
24	744	3345	0.22	0.0551	0.0017	0.5210	0.0161	0.0681	0.0010	413	70	426	11	425	6	99%
25	981	1490	0.66	0.0549	0.0016	0.5208	0.0158	0.0683	0.0009	406	69	426	11	426	5	99%

Xianping pluton TS19014-3

1	3198	19943	0.16	0.0520	0.0051	0.4875	0.0279	0.0802	0.0111	283	219	403	19	497	66	79%
2	1120	2657	0.42	0.0577	0.0019	0.5461	0.0184	0.0681	0.0010	517	72	442	12	425	6	95%
3	905	1681	0.54	0.0512	0.0017	0.4858	0.0161	0.0684	0.0009	250	76	402	11	427	5	94%
4	1539	3356	0.46	0.0653	0.0036	0.5658	0.0311	0.0625	0.0008	783	117	455	20	391	5	84%
5	923	2437	0.38	0.0517	0.0017	0.4816	0.0153	0.0672	0.0008	333	76	399	10	419	5	95%
6	722	1371	0.53	0.0555	0.0019	0.5221	0.0174	0.0678	0.0008	432	76	427	12	423	5	99%
7	4218	20686	0.20	0.0656	0.0027	0.4991	0.0233	0.0540	0.0007	794	88	411	16	339	4	80%
8	1383	4755	0.29	0.0531	0.0016	0.4892	0.0143	0.0662	0.0008	332	67	404	10	413	5	97%
9	1923	6004	0.32	0.0525	0.0015	0.5022	0.0146	0.0686	0.0008	306	67	413	10	428	5	96%
10	714	2994	0.24	0.0551	0.0018	0.5223	0.0165	0.0681	0.0007	417	79	427	11	424	4	99%
11	1009	3343	0.30	0.0558	0.0021	0.5338	0.0219	0.0684	0.0014	456	81	434	14	426	9	98%
12	941	2342	0.40	0.0527	0.0020	0.5038	0.0191	0.0683	0.0009	317	119	414	13	426	5	97%
13	1161	3727	0.31	0.0514	0.0022	0.4790	0.0193	0.0667	0.0009	257	94	397	13	417	5	95%
14	1548	2934	0.53	0.0548	0.0021	0.5092	0.0203	0.0665	0.0010	467	82	418	14	415	6	99%
15	900	5815	0.15	0.0555	0.0018	0.5242	0.0163	0.0677	0.0010	432	68	428	11	423	6	98%
16	901	2921	0.31	0.0644	0.0019	0.5052	0.0143	0.0564	0.0008	754	58	415	10	354	5	83%
17	2351	12052	0.20	0.0570	0.0016	0.5217	0.0152	0.0654	0.0008	500	63	426	10	408	5	95%
18	574	1279	0.45	0.0502	0.0026	0.5957	0.2201	0.0520	0.0012	206	119	475	140	327	7	63%
19	737	1244	0.59	0.0562	0.0018	0.5361	0.0169	0.0683	0.0009	461	69	436	11	426	5	97%
20	1326	5559	0.24	0.0549	0.0018	0.5180	0.0161	0.0679	0.0009	406	74	424	11	423	6	99%

21	541	640	0.85	0.2819	0.0169	4.1475	0.3229	0.0925	0.0027	3373	94	1664	64	570	16	2%
22	1402	3612	0.39	0.0563	0.0019	0.5358	0.0183	0.0682	0.0011	465	76	436	12	425	7	97%
23	959	3898	0.25	0.0576	0.0016	0.5485	0.0161	0.0681	0.0010	517	61	444	11	425	6	95%
24	1025	1763	0.58	0.0546	0.0017	0.5148	0.0153	0.0676	0.0007	398	69	422	10	421	4	99%
25	1189	4162	0.29	0.0541	0.0162	0.4610	0.1367	0.0488	0.0018	372	628	385	95	307	11	77%

Supplementary table.2 Zircon trace element data of the LP and XP in the western section of the NQO

Contents (ppm)	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Liqiao pluton TS19001-3														
TS19001.TW3.01	16.6	237	24.0	130	57.5	11.5	80.4	19.5	185	68.3	310	73.0	715	166
TS19001.TW3.02	3.07	81.8	2.69	18.7	12.4	3.68	35.8	11.3	124	51.6	242	58.6	571	136
TS19001.TW3.03	69.7	483	85.7	410	177	30.6	157	26.8	188	51.8	218	53.8	532	135
TS19001.TW3.04	26.7	235	33.5	195	74.0	14.4	65.1	10.5	80.8	28.2	131	32.8	343	87.1
TS19001.TW3.05	81.4	658	106	611	226	45.5	194	28.5	177	54.1	226	54.9	564	140
TS19001.TW3.06	0.87	53.5	1.63	12.0	6.57	1.82	16.9	4.96	58.9	24.8	128	33.5	339	86.3
TS19001.TW3.07	2.81	132	3.75	24.2	18.7	5.63	53.3	14.5	146	52.0	224	51.0	483	108
TS19001.TW3.08	32.1	232	5.40	29.3	20.9	5.38	65.4	18.1	186	65.6	282	62.8	577	125
TS19001.TW3.09	2.18	70.3	2.71	14.7	8.55	2.27	21.2	6.56	77.0	32.5	164	43.3	465	121
TS19001.TW3.10	0.41	69.1	0.59	3.88	4.58	1.75	24.1	7.81	95.7	40.9	206	53.2	560	144
TS19001.TW3.11	34.7	307	39.1	192	90.5	15.7	99.2	22.1	182	56.0	238	55.3	525	118
TS19001.TW3.12	5.63	301	3.28	26.0	26.1	7.57	94.5	25.9	259	88.7	359	75.3	638	133
TS19001.TW3.13	18.8	211	26.5	152	73.0	13.1	89.3	19.5	164	57.7	265	65.8	665	167
TS19001.TW3.14	124	1017	172	903	412	71.3	327	48.5	276	67.4	258	58.6	579	140
TS19001.TW3.15	16.5	141	18.0	91.6	38.9	7.56	47.5	10.1	93.1	33.8	163	39.9	420	111
TS19001.TW3.16	33.6	234	30.1	141	61.0	12.4	76.0	15.2	139	49.9	219	50.3	500	126
TS19001.TW3.17	0.15	75.0	0.13	2.29	4.81	1.89	27.0	9.30	111	46.3	220	54.3	541	127
TS19001.TW3.18	42.1	349	56.2	336	159	29.2	154	20.4	155	46.0	194	46.2	466	115
TS19001.TW3.19	0.0077	92.1	0.18	3.10	5.65	1.69	26.5	8.87	102	42.3	197	47.6	466	110
TS19001.TW3.20	4.60	81.6	2.80	15.6	8.79	2.28	24.5	7.68	88.9	38.7	199	51.3	534	140
TS19001.TW3.21	7.92	121	8.18	42.4	20.2	4.69	36.4	10.4	110	44.7	208	50.5	497	121
TS19001.TW3.22	1.58	65.5	1.66	9.4	7.29	2.02	20.7	6.21	71.5	30.2	153	39.6	429	114

TS19001.TW3.23	21.1	189	27.4	144	65.3	11.5	64.7	12.4	101	36.6	174	44.5	466	120
TS19001.TW3.24	1.05	71.9	1.22	7.92	6.76	1.95	22.4	7.38	86.4	37.1	187	47.4	491	123
TS19001.TW3.25	2.29	62.5	1.03	5.92	4.51	1.40	19.7	6.67	83.7	37.4	189	48.9	506	128

Liqiao pluton TS19007-2

TS19007.TW2.01	0.87	156	1.53	13.8	16.1	5.29	53.1	16.1	167	56.8	239	52.5	460	97.0
TS19007.TW2.02	38.8	544	36.2	173	99.6	31.6	163	42.6	362	110	465	112	1138	259
TS19007.TW2.03		62.1		1.04	1.34	0.54	6.47	2.26	32.3	15.5	90.8	27.7	324	84.8
TS19007.TW2.04	1.42	62.8	1.18	6.36	6.08	1.88	17.3	5.76	61.6	24.3	123	33.4	365	90.0
TS19007.TW2.05	0.065	111	0.36	7.06	11.2	3.60	38.7	11.1	118	43.4	186	41.6	377	80.3
TS19007.TW2.06	0.20	32.6	0.23	1.86	1.98	0.57	6.19	2.14	25.6	11.4	68.3	20.4	252	74.1
TS19007.TW2.07	0.31	107	0.51	4.00	4.71	1.67	17.7	5.75	69.4	31.5	177	52.1	601	159
TS19007.TW2.08	0.40	95.5	0.87	6.79	7.05	2.12	23.0	7.10	77.3	29.1	137	33.8	319	68.9
TS19007.TW2.09	0.10	130	0.29	3.80	6.12	1.66	26.6	9.05	98.6	38.8	188	47.2	457	102
TS19007.TW2.10	6.82	125	1.88	9.48	6.46	2.34	26.2	8.19	95.8	38.4	188	47.0	486	120
TS19007.TW2.11	0.10	118	0.20	2.31	3.41	1.29	13.7	4.24	49.1	21.1	112	31.4	347	87.6
TS19007.TW2.12	2.38	217	2.33	16.8	18.1	5.15	58.2	18.2	187	72.3	344	89.5	905	204
TS19007.TW2.13	3.98	166	3.63	18.1	13.8	4.09	34.3	10.7	107	38.2	185	49.0	513	124
TS19007.TW2.14	0.049	100	0.16	2.25	3.80	1.30	16.5	5.80	66.4	27.7	138	36.4	371	87.8
TS19007.TW2.15	50.7	413	34.8	165	121	32.2	209	67.0	606	177	707	165	1597	314
TS19007.TW2.16	0.15	115	0.41	3.40	5.46	1.77	21.7	7.00	80.3	33.7	172	46.1	474	116
TS19007.TW2.17	1.41	119	2.36	16.5	16.1	4.76	41.7	12.7	136	52.0	244	62.1	633	147
TS19007.TW2.18	0.92	63.5	1.28	7.43	5.71	1.81	15.4	4.84	53.2	20.6	99.5	26.7	288	77.1
TS19007.TW2.19	18.4	149	3.27	14.8	9.06	2.58	31.6	9.13	93.0	32.4	132	28.6	240	49.3
TS19007.TW2.20	0.019	89.0	0.13	1.99	3.12	1.12	13.2	4.33	50.1	21.7	111	30.7	328	81.3
TS19007.TW2.21	0.49	74.7	0.48	3.32	3.90	1.74	13.6	4.71	53.2	20.9	104	28.6	301	74.8
TS19007.TW2.22	2.98	166	2.99	17.0	14.9	4.56	35.9	11.6	123	45.2	212	56.6	573	139

TS19007.TW2.23	0.19	31.8	0.23	1.95	1.63	0.74	6.44	2.26	25.9	11.5	58.5	16.7	189	52.2
TS19007.TW2.24	0.21	83.9	0.15	2.23	4.50	1.40	20.5	6.66	77.1	30.7	142	35.0	349	82.9
TS19007.TW2.25	0.85	134	0.55	4.36	4.64	1.60	19.3	6.30	67.3	27.8	137	37.7	384	92.3

Xianping pluton TS19014-1

TS19014.TW1.01	0.56	27.1	0.30	2.84	6.48	0.43	39.6	16.9	218	91.1	431	103	949	203
TS19014.TW1.02	2.11	32.3	0.75	4.47	4.96	0.50	24.6	9.45	116	48.7	232	56.1	517	113
TS19014.TW1.03	76.7	236	28.0	130	35.3	1.35	56.0	15.2	155	60.6	254	58.3	518	113
TS19014.TW1.04	3.89	63.2	2.20	17.3	22.8	1.82	100	35.6	416	161	710	161	1427	299
TS19014.TW1.05	2.61	35.2	2.23	11.8	18.5	1.07	81.0	35.6	426	166	770	180	1564	321
TS19014.TW1.06	0.50	41.2	0.55	4.69	9.13	0.73	54.0	21.6	270	111	523	125	1137	244
TS19014.TW1.07	7.01	37.3	1.71	7.75	5.21	0.42	29.1	11.4	145	61.9	294	71.8	669	148
TS19014.TW1.08	0.42	32.7	0.31	3.41	6.22	0.60	35.2	14.0	178	75.9	365	88.2	820	180
TS19014.TW1.09	8.48	52.4	3.30	18.2	8.31	0.67	29.0	10.3	127	52.4	247	60.1	552	122
TS19014.TW1.10	0.88	26.6	0.37	3.12	5.88	0.48	34.1	12.8	160	68.0	322	77.3	714	156
TS19014.TW1.11	0.27	23.6	0.36	3.28	8.70	0.74	53.3	22.6	290	122	565	135	1218	263
TS19014.TW1.12	1.38	28.2	0.92	5.09	11.0	1.34	59.9	27.3	357	152	729	180	1625	346
TS19014.TW1.13	1.25	30.4	0.74	5.84	8.20	0.63	35.0	13.4	169	69.1	326	79.0	738	157
TS19014.TW1.14	0.82	42.7	0.83	6.19	8.8	0.98	43.2	15.8	193	75.5	345	81.1	714	152
TS19014.TW1.15	1.09	37.1	1.03	6.50	10.1	0.82	48.7	19.9	244	100	465	110	993	208
TS19014.TW1.16	25.7	84.8	7.45	32.5	10.2	0.69	35.4	13.3	164	68.2	328	80.4	753	167
TS19014.TW1.17	0.63	22.2	0.60	3.89	6.92	0.45	49.0	22.6	309	138	679	169	1594	347
TS19014.TW1.18	0.88	40.9	0.75	6.21	10.3	0.84	54.2	18.9	229	90.4	419	96.4	863	185
TS19014.TW1.19	1.65	62.1	1.25	10.1	15.7	1.11	78.6	30.5	370	146	664	154	1369	289
TS19014.TW1.20	14.7	88.4	8.34	47.8	31.0	1.42	90.8	32.6	373	143	642	148	1319	275
TS19014.TW1.21	0.067	19.6	0.091	1.07	2.35	0.28	16.6	6.49	82.7	36.2	179	44.2	426	95.6
TS19014.TW1.22	0.040	24.1	0.11	1.44	5.00	0.25	35.9	15.0	203	85.8	409	98.9	916	196

TS19014.TW1.23	3.59	41.2	2.73	15.5	20.3	1.66	97.1	44.6	556	228	1067	252	2249	462
TS19014.TW1.24	0.96	24.5	0.47	2.53	4.26	0.37	28.7	13.1	177	76.1	379	91.7	869	192
TS19014.TW1.25	0.76	58.3	0.92	11.6	17.2	1.48	82.4	27.7	330	128	567	128	1118	231

Xianping pluton TS19014-3

TS19014.TW3.01	7.12	52.2	4.53	25.2	21.3	1.14	94.6	40.4	554	245	1292	318	3131	681
TS19014.TW3.02	15.3	83.5	7.56	38.3	23.1	1.23	71.9	25.7	301	113	521	118	1091	214
TS19014.TW3.03	1.50	45.9	0.74	6.46	8.87	0.69	43.2	16.1	199	79.4	378	87.6	835	172
TS19014.TW3.04	4.93	44.9	2.64	15.8	17.8	2.61	70.2	25.7	301	113	531	123	1181	245
TS19014.TW3.05	0.13	36.5	0.26	2.76	5.47	0.43	36.2	13.7	184	75.7	365	84.9	826	173
TS19014.TW3.06	0.60	29.6	0.54	3.96	6.25	0.47	32.1	12.8	158	62.9	298	67.6	651	133
TS19014.TW3.07	5.58	56.7	4.24	23.3	36.9	4.46	189	72.5	870	341	1627	382	3616	718
TS19014.TW3.08	1.19	19.4	0.85	5.37	8.98	0.42	51.0	20.1	269	115	563	133	1284	269
TS19014.TW3.09		21.1	0.061	1.05	4.51	0.28	38.8	16.2	223	94.8	471	112	1077	223
TS19014.TW3.10	0.49	17.2	0.38	2.61	4.68	0.30	28.9	12.5	169	70.2	351	83.6	817	174
TS19014.TW3.11	0.82	26.6	0.62	3.02	6.28	0.39	41.3	16.6	217	92.0	444	106	1021	210
TS19014.TW3.12	0.30	24.2	0.27	3.21	6.56	0.47	36.8	15.0	198	81.6	397	93.3	893	186
TS19014.TW3.13	0.18	16.7	0.21	2.05	4.26	0.17	26.5	11.6	159	66.6	335	79.3	777	164
TS19014.TW3.14	4.40	51.9	1.77	10.5	8.39	0.74	42.9	16.3	198	78.3	367	86.3	810	169
TS19014.TW3.15	3.31	34.6	2.27	11.3	12.9	0.83	52.4	22.2	306	124	602	142	1383	285
TS19014.TW3.16	5.38	47.9	2.83	16.0	13.6	1.17	54.8	19.3	231	89.8	421	96.4	918	187
TS19014.TW3.17	7.07	75.4	5.99	28.6	24.9	5.48	96.1	37.7	487	195	924	214	1965	390
TS19014.TW3.18	2.40	37.6	1.31	8.58	10.3	0.81	43.9	15.7	185	70.2	315	72.2	654	136
TS19014.TW3.19	0.45	34.3	0.55	3.84	6.23	0.47	29.1	11.8	148	59.6	282	65.8	627	129
TS19014.TW3.20	0.50	15.4	0.45	3.02	7.02	0.26	40.8	19.0	262	114	570	136	1318	278
TS19014.TW3.21	20.6	87.6	6.68	35.0	19.0	1.56	62.8	20.4	222	81.8	350	75.3	666	132
TS19014.TW3.22	1.35	64.4	1.60	9.61	12.5	0.56	47.6	20.8	268	105	487	113	1044	212

TS19014.TW3.23	1.11	25.2	1.00	5.26	7.46	0.72	37.1	16.2	207	86.6	413	100.0	982	206
TS19014.TW3.24	45.2	154	11.8	52.1	16.0	0.87	48.3	16.3	196	78.0	354	80.8	754	152
TS19014.TW3.25	0.19	25.3	0.31	2.48	5.91	0.39	34.7	15.7	216	90.1	436	104	1023	217

Supplementary table.3 Whole-rock major and trace element data of the LP and XP in the western section of the NQO

Sample	Liqiao pluton														
	TS19001 /DH1	TS1900 1/DH3	TS19001 /DH4	TS1900 2/DH1	TS1900 3/DH1	TS1900 4/DH1	TS1900 4/DH2	TS19005 /DH1	TS1900 5/DH2	TS1900 5/DH3	TS1900 6/DH1	TS1900 6/DH2	TS1900 7/DH1	TS1900 7/DH2	TS1900 7/DH3
Majorelement(wt.%)															
SiO ₂	73.07	73.53	74.61	73.80	75.05	76.45	72.23	72.50	71.09	74.57	72.44	74.47	71.59	74.85	73.48
TiO ₂	0.25	0.23	0.19	0.24	0.19	0.25	0.16	0.29	0.22	0.25	0.26	0.23	0.28	0.18	0.30
Al ₂ O ₃	14.09	13.53	13.56	13.85	13.34	12.15	14.70	13.57	15.26	13.07	13.94	13.12	14.24	13.67	13.94
Fe ₂ O _{3T}	1.73	1.53	1.28	1.48	1.28	1.38	0.90	1.70	1.20	1.43	1.53	1.21	1.77	1.03	1.63
MnO	0.07	0.07	0.06	0.06	0.04	0.06	0.04	0.07	0.05	0.05	0.05	0.05	0.06	0.03	0.04
MgO	0.50	0.47	0.37	0.45	0.37	0.42	0.30	0.54	0.48	0.54	0.40	0.33	0.55	0.30	0.49
CaO	1.55	1.56	1.34	1.26	1.27	1.13	1.07	1.55	1.39	1.29	1.07	1.02	1.33	1.16	1.17
Na ₂ O	4.00	3.92	3.58	3.97	3.48	3.27	4.05	3.98	4.07	3.67	4.22	3.87	4.06	4.01	4.00
K ₂ O	4.56	4.45	4.68	4.29	4.67	4.78	5.70	4.60	5.76	4.35	5.02	4.95	5.05	4.02	4.62
P ₂ O ₅	0.09	0.09	0.08	0.09	0.08	0.10	0.08	0.13	0.10	0.11	0.09	0.07	0.12	0.07	0.14
LOI	0.48	0.57	0.50	0.74	0.54	0.41	0.66	0.82	0.58	0.89	0.68	0.79	1.01	0.97	0.94
TOTAL	100.39	99.95	100.25	100.23	100.31	100.40	99.89	99.75	100.20	100.22	99.70	100.11	100.06	100.29	100.75
Na ₂ O+K ₂ O	8.56	8.37	8.26	8.26	8.15	8.05	9.75	8.58	9.83	8.02	9.24	8.82	9.11	8.03	8.62
Na ₂ O/K ₂ O	0.88	0.88	0.76	0.93	0.75	0.68	0.71	0.87	0.71	0.84	0.84	0.78	0.80	1.00	0.87
A/CNK	0.98	0.96	1.01	1.03	1.02	0.96	0.99	0.95	0.99	1.00	0.97	0.97	0.98	1.05	1.02
σ	2.44	2.29	2.16	2.22	2.07	1.94	3.25	2.50	3.44	2.04	2.90	2.47	2.90	2.02	2.44
Mg#	40.25	41.72	40.25	41.47	40.25	41.50	43.72	42.54	48.25	46.81	37.86	38.86	42.00	40.43	41.20
Traceelement(ppm)															
Ti	1498	1378	1138	1438	1138	1498	959	1737	1318	1498	1558	1378	1677	1078	1797

P	393	393	349	393	349	436	349	567	436	480	393	305	524	305	611
K	37853	36939	38849	35611	38766	39679	47316	38185	47814	36109	41671	41090	41920	33370	38351
Li	33.03	36.42	33.40	23.57	17.80	25.75	13.47	25.95	18.78	19.46	10.26	6.36	15.76	8.99	11.22
Be	5.28	5.52	4.22	5.91	4.00	4.18	5.36	5.48	4.06	5.24	4.58	3.66	5.53	4.76	4.71
Sc	3.83	3.34	2.73	3.38	2.57	2.30	1.84	2.79	2.43	3.23	2.48	2.16	3.03	1.61	1.89
V	24.3	19.0	19.1	21.7	17.6	19.0	13.1	23.0	19.2	22.9	19.0	14.4	25.2	17.8	27.3
Cr	4.21	4.06	4.16	4.02	4.36	4.75	2.89	4.92	5.36	4.83	4.25	5.92	5.18	5.46	7.27
Co	2.32	3.38	1.92	1.95	1.88	1.81	1.29	2.31	2.00	2.41	1.70	1.35	2.21	1.37	2.31
Ni	1.85	1.64	1.52	1.72	1.60	2.26	1.59	2.89	2.91	3.13	1.59	1.22	2.18	1.05	2.48
Cu	3.81	79.43	4.69	5.29	4.34	3.23	1.93	2.67	8.13	5.15	17.48	5.11	2.32	3.48	8.00
Zn	41	38	33	40	33	35	27	44	30	35	35	34	33	21	29
Ga	20.6	19.6	17.6	20.1	18.1	15.7	18.5	19.9	17.3	16.8	18.3	16.1	19.1	17.4	18.0
Rb	215	220	267	207	191	227	262	198	202	210	163	159	162	169	165
Sr	358	335	314	323	301	325	343	341	575	420	397	276	399	353	360
Y	13.48	11.89	10.34	13.43	11.10	15.04	8.12	16.99	10.67	12.72	19.49	17.62	11.37	8.58	11.67
Zr	245	220	178	231	185	203	143	221	183	210	248	211	236	154	253
Nb	22.5	22.4	16.5	20.6	16.4	29.4	19.7	34.0	17.4	21.1	38.5	34.7	26.3	17.4	23.3
Mo	0.27	8.36	1.90	0.68	0.29	0.32	0.18	0.42	0.44	0.26	0.30	0.30	0.32	0.22	0.40
Cd	0.04	0.05	<0.000	0.05	0.00	0.02	<0.000	0.00	<0.000	0.01	0.05	0.02	0.04	<0.000	0.12
In	0.02	0.04	0.02	0.04	0.02	0.02	0.01	0.02	0.01	0.02	0.04	0.02	0.02	0.02	0.02
Cs	1.84	2.12	2.53	1.53	1.85	2.39	2.86	1.54	1.77	2.29	1.29	1.28	1.39	1.87	1.71
Ba	884	807	876	891	698	764	1027	705	1877	1209	826	715	1308	688	1177
La	66.35	63.67	47.65	53.97	52.36	57.77	52.70	76.20	44.80	56.44	108.25	95.34	68.10	66.79	75.30
Ce	116.70	111.02	85.11	102.34	93.45	108.06	87.20	138.40	83.81	105.35	201.29	168.78	119.26	107.82	130.23
Pr	11.89	11.27	8.83	10.41	9.57	11.62	8.35	14.04	9.06	10.88	19.97	16.76	12.27	10.05	13.20
Nd	36.54	33.76	26.99	31.77	28.97	36.15	24.19	42.56	28.64	34.58	58.57	47.40	37.29	27.89	39.28

Sm	4.99	4.62	3.77	4.64	4.00	5.25	3.05	6.04	4.17	4.99	7.31	6.38	5.05	3.39	5.23
Eu	1.11	0.99	0.92	1.05	0.89	1.10	0.87	1.13	1.33	1.26	1.28	1.09	1.27	0.90	1.29
Gd	4.62	4.21	3.41	4.25	3.67	4.65	2.84	5.31	3.59	4.29	6.57	5.64	4.40	3.21	4.63
Tb	0.48	0.44	0.37	0.46	0.39	0.51	0.28	0.58	0.40	0.48	0.70	0.61	0.45	0.31	0.47
Dy	2.25	1.98	1.76	2.25	1.86	2.53	1.33	2.83	1.86	2.27	3.33	2.91	2.02	1.38	2.09
Ho	0.44	0.39	0.34	0.43	0.35	0.49	0.25	0.55	0.35	0.42	0.62	0.56	0.37	0.27	0.38
Er	1.37	1.19	1.06	1.31	1.10	1.51	0.82	1.68	1.06	1.28	1.99	1.75	1.15	0.85	1.18
Tm	0.20	0.17	0.15	0.20	0.16	0.22	0.12	0.24	0.14	0.18	0.29	0.25	0.16	0.12	0.16
Yb	1.43	1.21	1.04	1.41	1.12	1.49	0.88	1.73	0.99	1.21	1.89	1.77	1.15	0.93	1.10
Lu	0.23	0.19	0.17	0.22	0.17	0.23	0.14	0.26	0.15	0.18	0.26	0.25	0.18	0.15	0.17
Hf	6.68	5.56	4.78	5.99	4.78	5.60	3.98	6.12	4.58	5.60	6.75	5.91	6.14	4.40	6.54
Ta	1.75	1.51	1.14	1.39	1.16	2.16	1.39	2.48	1.25	1.48	2.73	2.51	1.79	1.13	1.51
Pb	41	39	44	36	39	42	46	42	37	43	50	47	39	35	38
Bi	0.03	0.06	0.07	0.04	0.05	0.09	0.10	0.05	0.07	0.15	0.08	0.08	0.05	0.07	0.05
Th	47	37	35	33	36	61	45	70	20	26	72	85	39	54	40
U	4.04	5.68	7.60	2.71	3.62	5.61	3.54	8.53	2.32	4.02	9.10	5.97	5.45	6.24	3.94
δ Eu	0.70	0.67	0.77	0.71	0.70	0.67	0.89	0.60	1.03	0.81	0.55	0.54	0.81	0.82	0.79
δ Ce	0.93	0.92	0.93	0.98	0.94	0.95	0.91	0.95	0.95	0.96	0.97	0.94	0.92	0.90	0.92
REE	249	235	182	215	198	232	183	292	180	224	412	349	253	224	275
LREE	238	225	173	204	189	220	176	278	172	214	397	336	243	217	265
HREE	11.02	9.78	8.30	10.53	8.82	11.63	6.66	13.18	8.54	10.31	15.65	13.74	9.88	7.22	10.18
LREE/H REE	21.56	23.04	20.88	19.39	21.46	18.91	26.48	21.12	20.12	20.71	25.35	24.44	24.62	30.03	25.99
(La/Yb) _N	31.28	35.48	30.89	25.81	31.52	26.14	40.38	29.70	30.51	31.45	38.61	36.32	39.92	48.42	46.15
(La/Sm) _N	8.36	8.67	7.95	7.32	8.23	6.92	10.87	7.94	6.76	7.11	9.32	9.40	8.48	12.39	9.06
(Gd/Yb) _N	2.61	2.81	2.65	2.43	2.64	2.52	2.60	2.48	2.93	2.86	2.81	2.57	3.09	2.79	3.40

*TZr:Zirc
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817 806 794 819 799 804 770 804 788 808 817 805 811 786 825

TableS2(continued)

Sample	Xianping pluton											
	TS19013/ DH1	TS19013/ DH2	TS19014/ DH1	TS19014/ DH2	TS19014/ DH3	TS19014/ DH4	TS19015/ DH1	TS19015/ DH2	TS19016/ DH1	TS19017/ DH1	TS19018/ DH1	TS19019/ DH1
Majorelement(wt.%)												
SiO ₂	74.91	74.23	73.92	75.75	77.38	75.85	75.52	75.19	75.98	74.72	75.44	78.28
TiO ₂	0.04	0.05	0.07	0.09	0.09	0.14	0.10	0.08	0.10	0.08	0.16	0.15
Al ₂ O ₃	14.14	14.07	13.83	13.03	12.16	12.59	13.34	13.45	12.81	13.31	13.18	11.27
Fe ₂ O _{3T}	0.56	0.68	0.88	1.08	1.18	1.91	1.08	0.88	1.20	1.00	1.66	1.46
MnO	0.05	0.07	0.05	0.06	0.06	0.08	0.05	0.05	0.06	0.05	0.07	0.06
MgO	0.13	0.13	0.13	0.15	0.15	0.21	0.18	0.15	0.19	0.18	0.25	0.26
CaO	0.88	0.93	0.86	1.01	0.90	0.99	1.06	0.83	1.03	0.99	0.96	0.98
Na ₂ O	4.02	4.39	3.90	3.85	3.66	3.59	3.66	3.66	3.75	3.82	3.61	3.26
K ₂ O	5.34	4.98	5.04	4.66	4.10	4.13	4.62	5.18	4.54	4.73	4.62	3.57
P ₂ O ₅	0.02	0.02	0.03	0.03	0.04	0.05	0.03	0.03	0.04	0.03	0.06	0.06
LOI	0.53	0.55	1.24	0.63	0.53	0.57	0.57	0.43	0.45	0.48	0.66	0.69
TOTAL	100.62	100.10	99.95	100.34	100.25	100.11	100.21	99.93	100.15	99.39	100.67	100.04
Na ₂ O+K ₂ O	9.36	9.37	8.94	8.51	7.76	7.72	8.28	8.84	8.29	8.55	8.23	6.83
Na ₂ O/K ₂ O	0.75	0.88	0.77	0.83	0.89	0.87	0.79	0.71	0.83	0.81	0.78	0.91
A/CNK	1.01	0.98	1.03	0.99	1.01	1.03	1.03	1.02	0.99	1.01	1.04	1.02
σ	2.75	2.81	2.58	2.21	1.75	1.81	2.11	2.43	2.08	2.30	2.09	1.32
Mg#	35.11	30.82	25.61	24.45	22.85	20.40	27.98	28.43	26.95	29.55	25.98	29.33

Traceelement(ppm)

Ti	240	300	419	539	539	839	599	479	599	479	959	899
P	87	87	131	131	175	218	131	131	175	131	262	262
K	44327	41339	41837	38683	34034	34283	38351	42999	37687	39264	38351	29635
Li	25.80	39.89	14.82	18.59	10.18	37.41	12.52	7.72	39.28	21.74	22.43	13.41
Be	9.00	10.92	6.53	6.25	6.47	6.74	7.14	6.29	6.74	7.32	6.71	6.30
Sc	1.55	1.87	1.74	1.87	2.08	2.69	1.70	1.08	1.54	1.35	2.39	2.35
V	1.99	1.78	2.51	2.62	2.75	4.28	3.01	2.36	3.59	2.99	4.57	4.86
Cr	1.82	1.56	2.65	1.66	1.56	1.60	5.36	2.92	2.08	1.42	1.74	4.79
Co	0.39	0.39	0.52	0.65	0.72	1.04	0.76	0.59	0.78	0.64	1.21	1.20
Ni	0.38	0.26	0.33	0.33	0.32	0.87	0.55	0.40	0.40	0.36	0.49	0.66
Cu	1.34	0.89	0.87	1.01	0.94	1.39	1.33	1.17	1.01	0.96	1.14	1.16
Zn	19.5	25.8	23.8	31.0	29.9	42.0	29.9	20.8	32.5	24.8	41.2	39.1
Ga	22.0	22.9	20.0	19.9	19.5	21.9	20.1	17.5	19.5	19.1	18.6	16.3
Rb	477	443	324	289	270	303	281	300	282	289	241	189
Sr	41	39	46	53	43	47	56	50	50	53	74	74
Y	42	38	28	31	41	41	32	20	30	26	28	29
Zr	91	85	106	128	126	146	136	110	169	146	178	187
Nb	46	41	41	54	62	65	40	35	52	37	37	38
Mo	0.23	0.26	0.22	0.24	0.33	0.59	0.41	0.38	0.22	0.24	0.57	0.71
Cd	0.22	0.36	0.06	0.23	0.24	0.28	0.23	0.23	0.29	0.22	0.35	0.31
In	0.07	0.07	0.05	0.05	0.05	0.09	0.06	0.03	0.04	0.06	0.05	0.05
Cs	5.86	6.89	2.21	2.22	1.84	3.38	2.00	2.07	3.03	2.55	2.43	2.12
Ba	180	162	239	267	159	185	207	224	201	214	271	206
La	12.17	17.71	24.59	17.74	30.14	29.98	32.28	18.42	31.11	28.58	42.24	44.17
Ce	26.72	37.44	51.94	36.81	63.03	67.43	68.66	37.31	67.50	61.61	83.51	90.49

Pr	2.97	4.21	5.81	4.16	6.79	6.89	7.96	4.29	7.47	6.68	9.47	10.07
Nd	10.98	15.34	20.90	15.39	24.35	24.78	27.10	15.21	26.30	23.37	30.99	32.95
Sm	3.23	3.91	4.66	3.94	5.87	5.77	5.97	3.45	5.85	4.94	5.91	6.12
Eu	0.31	0.31	0.38	0.40	0.36	0.37	0.49	0.38	0.41	0.44	0.54	0.52
Gd	3.97	4.31	4.59	4.23	6.23	5.85	5.88	3.53	5.64	4.55	5.52	5.71
Tb	0.84	0.80	0.75	0.81	1.11	1.03	0.93	0.58	0.94	0.74	0.82	0.87
Dy	6.11	5.43	4.70	5.39	7.02	6.64	5.40	3.59	5.69	4.40	4.76	5.13
Ho	1.41	1.23	1.03	1.21	1.54	1.46	1.11	0.76	1.23	0.93	1.00	1.06
Er	4.79	4.06	3.28	3.93	4.79	4.57	3.31	2.31	3.85	2.97	3.05	3.29
Tm	0.83	0.71	0.53	0.65	0.77	0.74	0.51	0.36	0.60	0.48	0.49	0.52
Yb	5.99	5.20	3.69	4.50	5.17	5.12	3.50	2.53	4.19	3.44	3.37	3.60
Lu	0.94	0.82	0.58	0.69	0.78	0.78	0.55	0.38	0.63	0.55	0.54	0.55
Hf	3.91	3.50	3.98	4.58	4.47	5.36	4.65	3.92	5.98	5.40	5.50	5.79
Ta	6.40	7.46	3.21	4.02	4.44	5.14	3.49	2.80	3.30	3.17	3.37	3.24
Pb	59	57	46	52	45	57	49	48	48	46	44	37
Bi	0.11	0.43	0.10	0.09	0.10	0.08	0.12	0.18	0.10	0.09	0.12	0.16
Th	27	29	38	38	49	55	49	37	51	50	55	56
U	8.71	9.21	6.87	8.55	9.70	10.12	7.39	6.54	8.15	7.09	6.99	8.39
δ Eu	0.26	0.23	0.25	0.30	0.18	0.19	0.25	0.33	0.22	0.28	0.28	0.26
δ Ce	1.04	1.01	1.01	1.00	1.02	1.09	1.00	0.98	1.03	1.04	0.97	1.00
REE	81	101	127	100	158	161	164	93	161	144	192	205
LREE	56	79	108	78	131	135	142	79	139	126	173	184
HREE	24.9	22.6	19.2	21.4	27.4	26.2	21.2	14.0	22.8	18.1	19.6	20.7
LREE/HREE	2.27	3.50	5.65	3.66	4.76	5.16	6.72	5.63	6.09	6.96	8.83	8.89
(La/Yb) _N	1.37	2.30	4.49	2.66	3.93	3.95	6.22	4.91	5.01	5.60	8.45	8.27
(La/Sm) _N	2.37	2.85	3.32	2.83	3.23	3.27	3.40	3.36	3.35	3.64	4.50	4.54

(Gd/Yb) _N	0.53	0.67	1.00	0.76	0.97	0.92	1.36	1.13	1.09	1.07	1.32	1.28
<i>TZr:Zirconsaturationte mperatures</i>	738	729	752	765	768	782	774	755	790	778	798	807

Supplementary table.4 Zircon Hf isotopic composition of the LP and XP in the western section of the NQO

Spots	$^{176}\text{Hf}/^{177}\text{Hf}$	2σ	$^{176}\text{Yb}/^{177}\text{Hf}$	2σ	$^{176}\text{Lu}/^{177}\text{Hf}$	2σ	zirconU-Pbages	$\varepsilon_{\text{Hf}(t)}$	$T_{\text{DM1}}(\text{Ma})$	$T_{\text{DM2}}(\text{Ma})$
Liqiao pluton TS19001-3										
TS19001-302	0.282573	0.000018	0.033889	0.000183	0.001375	0.000007	417	1.8	971	1291
TS19001-304	0.282539	0.000020	0.022030	0.000288	0.001042	0.000008	433	1.0	1010	1352
TS19001-306	0.282600	0.000016	0.027064	0.000362	0.001232	0.000010	432	3.1	929	1219
TS19001-307	0.282550	0.000016	0.026886	0.000155	0.001219	0.000007	435	1.4	998	1327
TS19001-308	0.282600	0.000017	0.040845	0.000684	0.001677	0.000014	434	3.0	940	1226
TS19001-309	0.282526	0.000018	0.027843	0.000391	0.001287	0.000007	434	0.5	1035	1383
TS19001-310	0.282597	0.000016	0.028282	0.000227	0.001310	0.000011	422	2.7	934	1232
TS19001-312	0.282569	0.000020	0.038521	0.000429	0.001567	0.000009	434	1.9	981	1292
TS19001-313	0.282605	0.000016	0.033954	0.000207	0.001582	0.000009	420	2.9	930	1220
TS19001-315	0.282565	0.000015	0.025117	0.000061	0.001257	0.000002	433	1.9	979	1297
TS19001-317	0.282611	0.000015	0.033266	0.000319	0.001483	0.000013	433	3.4	919	1197
TS19001-319	0.282591	0.000018	0.029190	0.000240	0.001231	0.000006	431	2.7	941	1239
TS19001-320	0.282560	0.000017	0.030111	0.000198	0.001407	0.000007	430	1.6	990	1312
TS19001-321	0.282604	0.000018	0.028821	0.000124	0.001296	0.000004	429	3.1	925	1213
TS19001-322	0.282567	0.000015	0.026391	0.000394	0.001274	0.000011	433	1.9	977	1293
Liqiao pluton TS19007-2										
TS19007-201	0.282517	0.000025	0.032438	0.000525	0.001259	0.000013	421	-0.1	1047	1411
TS19007-203	0.282604	0.000017	0.014220	0.000206	0.000722	0.000007	431	3.3	911	1202
TS19007-204	0.282561	0.000019	0.034567	0.001511	0.001409	0.000053	428	1.6	989	1311
TS19007-205	0.282569	0.000019	0.029236	0.000254	0.001179	0.000013	425	1.9	971	1290
TS19007-206	0.282543	0.000016	0.035220	0.001650	0.001533	0.000056	430	0.9	1018	1353
TS19007-207	0.282585	0.000017	0.031937	0.000196	0.001495	0.000006	431	2.5	956	1257

TS19007-208	0.282592	0.000021	0.032113	0.000703	0.001300	0.000026	432	2.8	941	1237
TS19007-209	0.282554	0.000019	0.038762	0.000393	0.001638	0.000015	432	1.3	1005	1329
TS19007-210	0.282563	0.000018	0.022482	0.000071	0.001032	0.000004	429	1.8	976	1299
TS19007-211	0.282595	0.000018	0.027437	0.000188	0.001141	0.000011	430	2.9	933	1229
TS19007-212	0.282600	0.000020	0.067369	0.001365	0.002697	0.000053	426	2.5	966	1248
TS19007-213	0.282555	0.000020	0.028653	0.000186	0.001124	0.000007	430	1.5	989	1318
TS19007-214	0.282529	0.000022	0.026589	0.000367	0.000977	0.000010	432	0.6	1023	1374
TS19007-216	0.282560	0.000018	0.027594	0.000676	0.001201	0.000027	429	1.6	985	1310
TS19007-217	0.282561	0.000018	0.031421	0.000215	0.001415	0.000010	431	1.6	988	1309
TS19007-221	0.282564	0.000020	0.030850	0.000228	0.001417	0.000008	489	3.0	984	1269
Xianping pluton TS19014-1										
TS19014-101	0.282050	0.000018	0.065829	0.001392	0.002384	0.000018	427	-16.8	1756	2459
TS19014-102	0.282099	0.000017	0.031140	0.000652	0.001299	0.000024	429	-14.7	1637	2332
TS19014-103	0.282015	0.000018	0.049450	0.000487	0.002017	0.000021	423	-18.0	1788	2530
TS19014-104	0.282139	0.000020	0.078492	0.001190	0.003110	0.000049	425	-13.9	1660	2276
TS19014-105	0.282042	0.000016	0.071550	0.001212	0.002750	0.000042	409	-17.6	1785	2492
TS19014-107	0.282062	0.000016	0.048676	0.000734	0.002000	0.000027	432	-16.2	1720	2423
TS19014-108	0.282099	0.000015	0.040890	0.000455	0.001628	0.000009	418	-15.1	1651	2344
TS19014-109	0.282094	0.000015	0.053632	0.000172	0.002113	0.000002	426	-15.2	1679	2357
TS19014-110	0.282118	0.000017	0.059975	0.000591	0.002245	0.000005	421	-14.5	1651	2310
TS19014-111	0.282055	0.000017	0.062829	0.000445	0.002211	0.000015	423	-16.7	1740	2447
TS19014-112	0.282124	0.000017	0.082388	0.000247	0.003434	0.000010	423	-14.6	1698	2317
TS19014-113	0.282039	0.000017	0.037643	0.000711	0.001460	0.000017	417	-17.1	1727	2471
TS19014-114	0.282087	0.000017	0.056828	0.000353	0.002284	0.000008	412	-15.8	1697	2383
TS19014-115	0.282102	0.000019	0.074501	0.001387	0.002927	0.000049	421	-15.3	1706	2358
TS19014-116	0.282099	0.000018	0.045738	0.000701	0.001787	0.000019	420	-15.0	1657	2343

Xianping pluton TS19014-3

TS19014-302	0.282047	0.000029	0.068770	0.001452	0.002709	0.000053	425	-17.1	1776	2472
TS19014-303	0.282028	0.000017	0.047229	0.000331	0.001899	0.000008	427	-17.5	1764	2499
TS19014-305	0.282120	0.000017	0.058194	0.001151	0.002327	0.000042	419	-14.5	1652	2307
TS19014-306	0.282120	0.000018	0.054918	0.000620	0.002176	0.000023	423	-14.4	1645	2303
TS19014-308	0.282050	0.000016	0.053294	0.000231	0.002265	0.000008	413	-17.1	1750	2464
TS19014-309	0.282005	0.000018	0.061188	0.001039	0.002563	0.000037	428	-18.5	1830	2560
TS19014-310	0.282143	0.000017	0.062960	0.000930	0.002522	0.000021	424	-13.6	1628	2259
TS19014-311	0.282044	0.000018	0.046801	0.001124	0.001906	0.000048	426	-16.9	1741	2463
TS19014-312	0.282118	0.000018	0.054540	0.000223	0.002168	0.000010	426	-14.4	1647	2305
TS19014-313	0.282042	0.000014	0.047716	0.000240	0.001989	0.000009	417	-17.2	1748	2474
TS19014-314	0.282124	0.000019	0.082867	0.002035	0.002952	0.000077	415	-14.6	1675	2313
TS19014-315	0.282117	0.000017	0.064742	0.000494	0.002515	0.000018	423	-14.6	1664	2315
TS19014-317	0.282045	0.000017	0.098536	0.000906	0.003987	0.000044	408	-17.8	1843	2505
TS19014-319	0.282122	0.000020	0.052094	0.000387	0.002000	0.000010	426	-14.2	1635	2294
TS19014-320	0.282072	0.000017	0.062001	0.000216	0.002564	0.000009	423	-16.2	1732	2415
