

Sample No.	Sample type	SiO ₂ %	Al ₂ O ₃ %	TiO ₂ %	Fe ₂ O ₃ %	MnO %	CaO %	MgO %	K ₂ O %	Na ₂ O %	P ₂ O ₅ %	PbO %	LOI %	Cu (ppm)	As (ppm)	Zn (ppm)	Ag (ppm)	S (ppm)	Bi (ppm)	Sb (ppm)	Ba (ppm)	Ni (ppm)	Co (ppm)	Mo (ppm)
SHN-1	Litharge	3.13	0.074	0.01	0.286	0.02	4.57	1.57	0.12	0.027	0.23	71.41	18.45	1374	48.5	69.6	4.1	10100	31.4	75.7	79	11	1.5	40.5
SHN-2	Litharge	4.39	0.13	0.05	0.443	0.03	8.11	0.95	0.52	0.027	0.33	69.78	16.28	2336	146	134	62	1430	7.7	658	148	13	2.8	17.5
SHN-3	Litharge	3.69	0.123	0.02	0.214	0.02	6.3	0.74	0.21	0.027	0.12	78.28	12.05	215	27.7	12.4	9.8	1030	0.3	5.4	82.9	6	1.9	69.5
SHN-5	Litharge	8.68	1.93	0.08	0.743	0.04	7.72	1.48	0.45	0.067	0.24	66.25	14.93	2323	580	107	10	2120	8.9	2110	105	15	3.7	64.3
SHN-6	Litharge	3.91	0.13	0.02	0.229	0.02	3.99	1.51	0.33	0.013	0.14	72.1	18.65	1186	571	66.7	29	4130	1.7	999	61	10	1.6	93.6
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SHN-4	Lead sheet	ND	0.132	<0.001	0.066	<0.001	0.483	0.071	0.008	0.035	0.011	98.100	ND	0.074	<0.001	0.004	0.092	0.009	0.009	0.019	0.003	0.008	<0.001	0.002

Table S2. Table of bulk chemical analysis results for major and some trace elements of the samples measured by ICP-MS (ND: None Detected)