

	Al mg/kg	B mg/kg	Ba mg/kg	Cu mg/kg	Fe mg/kg	Li mg/kg	Mo mg/kg	Si mg/kg	Sr mg/kg	Ti mg/kg	Zn mg/kg
S1	1.05 ± 0.19	5.76 ± 0.33	0.07 ± 0.01	0.19 ± 0.01	3.47 ± 0.26	0.09 ± 0.01	0.03 ± 0.01	2.12 ± 0.11	0.53 ± 0.07	0.08 ± 0.01	1.58 ± 0.13
S2	1.75 ± 0.16	5.28 ± 0.09	0.12 ± 0.03	0.48 ± 0.03	4.90 ± 0.07	0.11 ± 0.01	0.04 ± 0.01	2.80 ± 0.17	0.73 ± 0.17	0.09 ± 0.01	2.17 ± 1.07
S3	3.80 ± 1.56	6.12 ± 0.51	0.30 ± 0.03	0.84 ± 0.15	8.18 ± 4.20	0.02 ± 0.002	< LOD	9.25 ± 4.38	0.47 ± 0.07	0.16 ± 0.05	2.22 ± 0.52
S4	0.73 ± 0.48	11.68 ± 0.53	0.11 ± 0.02	0.09 ± 0.02	3.88 ± 1.50	0.08 ± 0.01	0.02 ± 0.003	2.05 ± 1.02	0.46 ± 0.15	0.08 ± 0.02	2.37 ± 0.47
S5	2.40 ± 0.22	8.59 ± 0.23	0.13 ± 0.01	6.25 ± 0.07	6.39 ± 0.32	0.09 ± 0.002	0.04 ± 0.001	3.74 ± 0.79	0.68 ± 0.07	0.12 ± 0.003	6.09 ± 0.72
S6	4.30 ± 1.30	12.98 ± 1.02	0.30 ± 0.05	0.62 ± 0.12	8.62 ± 1.89	0.01 ± 0.004	< LOD	10.07 ± 2.04	0.45 ± 0.07	0.22 ± 0.11	1.89 ± 0.67
S7	2.00 ± 0.58	4.69 ± 0.56	0.20 ± 0.04	0.55 ± 0.16	5.02 ± 1.24	0.01 ± 0.002	< LOD	5.82 ± 1.86	0.27 ± 0.13	0.12 ± 0.02	2.04 ± 0.27
S8	3.49 ± 2.26	5.81 ± 0.25	0.28 ± 0.04	1.31 ± 0.06	6.79 ± 0.88	0.02 ± 0.01	0.14 ± 0.04	11.76 ± 5.95	0.47 ± 0.14	0.17 ± 0.05	2.25 ± 0.09
S9	0.70 ± 0.20	4.37 ± 0.17	0.10 ± 0.04	0.21 ± 0.01	3.50 ± 0.31	0.09 ± 0.01	0.03 ± 0.001	2.00 ± 0.29	0.44 ± 0.11	0.08 ± 0.01	3.37 ± 1.31
S10	5.32 ± 0.72	5.72 ± 0.39	0.47 ± 0.11	1.28 ± 0.14	9.83 ± 1.49	0.06 ± 0.01	< LOD	10.11 ± 2.29	0.67 ± 0.20	0.21 ± 0.01	2.67 ± 0.82
S11	0.46 ± 0.32	2.50 ± 0.27	< LOD	0.09 ± 0.08	3.56 ± 0.44	0.09 ± 0.01	0.03 ± 0.003	1.69 ± 0.68	0.28 ± 0.12	0.08 ± 0.01	1.77 ± 0.31
S12	1.41 ± 0.14	2.80 ± 0.05	< LOD	0.41 ± 0.01	3.57 ± 0.26	0.11 ± 0.01	0.03 ± 0.003	2.78 ± 0.71	0.45 ± 0.23	0.10 ± 0.01	3.17 ± 1.34
S13	0.54 ± 0.08	3.12 ± 0.17	< LOD	0.07 ± 0.004	2.88 ± 1.16	0.07 ± 0.01	0.02 ± 0.004	1.36 ± 0.06	0.31 ± 0.05	0.07 ± 0.01	3.12 ± 1.03
S14	0.52 ± 0.15	3.12 ± 0.23	< LOD	0.08 ± 0.03	2.88 ± 0.63	0.09 ± 0.01	0.06 ± 0.01	1.58 ± 0.18	0.09 ± 0.04	0.08 ± 0.01	3.34 ± 1.90
S15	0.37 ± 0.12	3.28 ± 0.26	< LOD	0.18 ± 0.04	2.53 ± 0.75	0.09 ± 0.02	0.04 ± 0.004	1.74 ± 0.25	0.04 ± 0.02	0.07 ± 0.02	1.40 ± 0.25
S16	0.32 ± 0.20	1.85 ± 0.05	< LOD	0.10 ± 0.02	2.51 ± 0.40	0.08 ± 0.01	0.04 ± 0.01	1.09 ± 0.53	0.04 ± 0.03	0.07 ± 0.02	4.04 ± 0.37
S17	5.41 ± 1.59	3.95 ± 0.48	0.25 ± 0.05	0.56 ± 0.08	6.62 ± 1.27	0.01 ± 0.003	< LOD	9.52 ± 2.95	0.34 ± 0.16	0.26 ± 0.09	1.74 ± 0.19
S18	2.50 ± 0.54	8.25 ± 0.34	0.38 ± 0.04	0.53 ± 0.14	6.05 ± 1.19	0.01 ± 0.002	< LOD	6.85 ± 1.11	0.39 ± 0.15	0.12 ± 0.05	2.17 ± 0.51
S19	2.43 ± 0.13	11.22 ± 0.58	0.14 ± 0.07	0.83 ± 0.16	11.28 ± 1.66	2.52 ± 0.13	0.34 ± 0.13	4.31 ± 0.26	0.21 ± 0.10	0.45 ± 0.04	3.95 ± 1.57
S20	7.62 ± 5.87	7.85 ± 0.31	0.39 ± 0.10	2.36 ± 0.45	10.87 ± 5.15	< LOD	0.14 ± 0.04	13.44 ± 9.12	0.67 ± 0.13	0.27 ± 0.14	3.86 ± 1.08
S21	1.26 ± 0.41	9.49 ± 1.85	0.19 ± 0.03	0.47 ± 0.18	5.87 ± 1.15	2.55 ± 0.47	0.27 ± 0.05	2.63 ± 0.65	0.65 ± 0.31	0.41 ± 0.08	2.31 ± 0.14
S22	1.13 ± 0.52	14.09 ± 1.01	0.12 ± 0.01	1.14 ± 0.38	9.20 ± 4.26	2.92 ± 0.32	0.35 ± 0.08	3.48 ± 0.78	0.39 ± 0.16	0.47 ± 0.06	3.14 ± 0.34
S23	3.68 ± 2.39	8.79 ± 0.59	0.32 ± 0.10	0.72 ± 0.22	8.67 ± 4.24	< LOD	0.09 ± 0.03	8.15 ± 1.68	0.50 ± 0.03	0.17 ± 0.11	3.04 ± 0.20
S24	1.28 ± 0.15	10.54 ± 0.33	0.09 ± 0.04	< LOD	5.16 ± 0.64	2.19 ± 0.21	0.24 ± 0.05	2.50 ± 0.27	0.12 ± 0.16	0.36 ± 0.02	2.73 ± 0.75
S25	1.49 ± 0.54	13.42 ± 0.31	0.16 ± 0.05	0.56 ± 0.49	7.95 ± 2.23	2.73 ± 0.31	0.30 ± 0.04	3.77 ± 0.70	0.29 ± 0.01	0.44 ± 0.07	4.16 ± 2.88
S26	6.79 ± 1.49	7.81 ± 0.39	0.27 ± 0.05	0.76 ± 0.31	6.19 ± 2.99	< LOD	0.10 ± 0.05	10.60 ± 6.11	0.58 ± 0.15	0.20 ± 0.12	2.03 ± 0.22
S27	1.02 ± 0.16	13.93 ± 4.84	0.11 ± 0.05	0.30 ± 0.18	7.42 ± 3.32	2.44 ± 0.21	0.25 ± 0.01	3.78 ± 0.95	0.14 ± 0.02	0.39 ± 0.03	2.57 ± 0.96
S28	1.24 ± 0.15	10.22 ± 1.63	0.16 ± 0.07	0.15 ± 0.07	7.01 ± 1.45	2.67 ± 0.36	0.30 ± 0.03	4.00 ± 0.67	0.26 ± 0.15	0.45 ± 0.05	2.76 ± 0.10
S29	6.44 ± 2.92	5.34 ± 0.20	0.27 ± 0.05	0.91 ± 0.36	7.41 ± 3.04	0.03 ± 0.01	0.13 ± 0.03	12.45 ± 9.30	0.55 ± 0.13	0.23 ± 0.14	2.06 ± 0.43
S30	2.54 ± 1.09	13.15 ± 2.75	0.18 ± 0.04	1.10 ± 0.38	7.41 ± 0.39	2.42 ± 0.21	0.28 ± 0.01	3.04 ± 0.69	0.27 ± 0.12	0.45 ± 0.05	3.35 ± 1.40
S31	3.29 ± 0.49	10.94 ± 1.12	0.08 ± 0.05	1.31 ± 0.45	9.24 ± 0.36	2.61 ± 0.13	0.30 ± 0.01	8.35 ± 0.17	0.16 ± 0.11	0.45 ± 0.02	1.95 ± 0.58
S32	6.61 ± 4.94	7.20 ± 0.48	0.46 ± 0.08	2.04 ± 0.17	9.55 ± 3.98	< LOD	0.18 ± 0.04	11.58 ± 3.05	0.69 ± 0.13	0.28 ± 0.12	2.43 ± 0.36
S33	2.95 ± 0.43	12.73 ± 1.27	0.10 ± 0.07	1.22 ± 0.32	11.04 ± 1.90	2.93 ± 0.22	0.34 ± 0.01	8.28 ± 1.23	0.28 ± 0.09	0.50 ± 0.07	3.13 ± 0.98
LOD	0.0733	0.0139	0.0030	0.0145	0.4071	0.0070	0.0143	0.0782	0.0014	0.0087	0.1316

	Ca mg/kg	K mg/kg	Mg mg/kg	Na mg/kg	P mg/kg	S mg/kg
S1	120.63 ± 9.88	738.73 ± 45.5	23.49 ± 1.89	23.55 ± 2.56	55.68 ± 2.38	42.53 ± 1.44
S2	163.14 ± 51.03	1092.78 ± 18.38	39.46 ± 2.41	37.74 ± 2	101.55 ± 1.79	61.23 ± 0.99
S3	117.42 ± 30.1542	703.03 ± 33.22	30.3203 ± 6.29	26.12 ± 0.47	71.85 ± 12.55	37.52 ± 10.85
S4	118.73 ± 24.2	209.67 ± 11.57	20.56 ± 3.1	20.57 ± 4.95	27.13 ± 1.06	17.64 ± 3.33
S5	250.64 ± 6.694	1918.31 ± 44.96	98.27 ± 1.73	42.37 ± 3.48	274 ± 6.91	126.75 ± 2.52
S6	131.134 ± 29.48	299.07 ± 16.93	23.73 ± 4.64	29.74 ± 1.83	34.76 ± 6.41	0.49 ± 0.25
S7	80.63 ± 29.43	248.78 ± 21.21	16.61 ± 4.88	14.62 ± 2.46	37.1 ± 5.93	21.83 ± 7.61
S8	147.71 ± 31.34	2055.12 ± 119.53	88.34 ± 15.01	31.2 ± 3.41	262.64 ± 34.46	70.1 ± 13.71
S9	105.11 ± 22.53	468.4 ± 6.68	19.25 ± 1.49	22.89 ± 1.42	48.78 ± 1.84	29.25 ± 2.01
S10	181.2 ± 55.32	1223.43 ± 95.68	48.09 ± 11.88	29.99 ± 3.19	96.5 ± 14.33	55.01 ± 14.15
S11	69.03 ± 23.04	211.35 ± 22.26	13.03 ± 2.22	11.99 ± 2.04	35.46 ± 4.03	20.55 ± 2.17
S12	99.7 ± 27.2	519.82 ± 3.44	27.14 ± 3.89	17.82 ± 6.45	62.303 ± 1.08	36.42 ± 3.4
S13	71.1 ± 0.97	271.51 ± 14.32	15.16 ± 1.027	14.03 ± 1.07	41.35 ± 2.34	23.54 ± 0.6
S14	40.85 ± 5.82	316.55 ± 21.53	8.87 ± 1.14	11.67 ± 1.27	31.31 ± 2.21	21.13 ± 1.34
S15	51.62 ± 15.31	568.72 ± 45.82	9.77 ± 1.24	8.36 ± 0.82	32.57 ± 2.8	25.79 ± 2.2
S16	44.95 ± 5.45	328.05 ± 10.56	11.75 ± 2.08	8.19 ± 1.26	44.45 ± 1.51	23.41 ± 1.23
S17	101.6 ± 29.45	241.18 ± 15.53	22.27 ± 5.17	14.41 ± 1.22	34.22 ± 5.71	24.91 ± 9.53
S18	137.57 ± 45.29	925.44 ± 43.83	24.38 ± 7.86	16.18 ± 2.88	30.38 ± 4.88	52.84 ± 32.84
S19	130.45 ± 25.23	1659.32 ± 36.68	72.38 ± 26.68	36.72 ± 1.67	44 ± 6.22	49.3 ± 2.86
S20	175.47 ± 35.65	2526.55 ± 116.2	81.85 ± 14.78	50.26 ± 7.07	234.82 ± 32.61	100.17 ± 19.49
S21	32.97 ± 38.09	405.58 ± 141.63	26.79 ± 2.68	31.72 ± 11.23	34.98 ± 20.91	25.113 ± 8.92
S22	92.82 ± 46.41	576.8 ± 28.77	27.15 ± 8.17	62.61 ± 5.72	18.38 ± 7.75	40.79 ± 4.44
S23	133.49 ± 19.73	544.77 ± 41.22	21.78 ± 3.16	90.89 ± 41.46	49.03 ± 6.81	42.91 ± 8.93
S24	128.67 ± 31.69	896.64 ± 8.1	18.08 ± 4.56	47.67 ± 2.37	30.88 ± 3.43	39.46 ± 0.64
S25	110.26 ± 33.34	1010.07 ± 23.54	12.66 ± 4.84	34.06 ± 4.33	14.2 ± 6.61	34.24 ± 0.9
S26	142.67 ± 28.46	814.44 ± 24.39	30.39 ± 6.41	18.4 ± 3.12	62.1 ± 9.65	40.13 ± 12.58
S27	86.87 ± 11.56	1414.2 ± 120.82	22.87 ± 4.72	33.95 ± 7.04	60.24 ± 9.27	25.3 ± 1.01
S28	77.65 ± 13.85	987.46 ± 26.93	36.89 ± 18.9	41.91 ± 3.41	47.04 ± 7.55	43.79 ± 0.57
S29	134.22 ± 27.46	832.79 ± 43.95	39.08 ± 7.91	28.33 ± 2.35	85.63 ± 12.53	46.42 ± 11.51
S30	54.26 ± 33.79	1083.1 ± 160.64	25.5 ± 5.91	35.01 ± 4.73	87.88 ± 57.99	39.17 ± 6.17
S31	73.66 ± 16.63	3108.41 ± 22.3	54.93 ± 4.13	69.25 ± 2.77	187.12 ± 6.27	78.84 ± 0.65
S32	201.53 ± 9.92	2227.6 ± 280.9	94.83 ± 5.4	107.13 ± 9.41	212.08 ± 17.16	97.84 ± 14.09
S33	77.95 ± 38.17	3008.94 ± 133.49	45.97 ± 4.92	70.5 ± 8.53	169.34 ± 6.57	75.19 ± 4.54
LOD	4.7758	0.4837	0.3344	0.0284	0.0994	0.6244

	TPC mg GAE per 100 g	TFC mg QE per 100 g	AOA $\mu\text{M Fe}^{2+}$
S1	26.99 \pm 0.69	46.75 \pm 4.86	365.99 \pm 33.02
S2	32.44 \pm 1.06	54.13 \pm 4.54	819.88 \pm 185.23
S3	11.4 \pm 3.25	43.09 \pm 2.61	265.13 \pm 40.11
S4	ND	37.47 \pm 6.29	ND
S5	71.54 \pm 6.63	58.51 \pm 15.31	1833.33 \pm 326.71
S6	ND	31.84 \pm 2.05	ND
S7	ND	40.54 \pm 4.31	ND
S8	35.74 \pm 0.81	46.48 \pm 6.08	1081.65 \pm 288.66
S9	10.15 \pm 0.65	46.55 \pm 4.82	ND
S10	38.03 \pm 6.64	51.39 \pm 10.67	188.28 \pm 36.26
S11	ND	49.23 \pm 6.37	ND
S12	10.04 \pm 0.38	52.56 \pm 7.19	476.47 \pm 77.04
S13	ND	38.18 \pm 3.41	ND
S14	ND	43.22 \pm 2.46	ND
S15	ND	51.58 \pm 11.83	ND
S16	ND	37.86 \pm 9.17	ND
S17	ND	35.63 \pm 2.52	ND
S18	ND	33.67 \pm 1.67	ND
S19	11.6 \pm 2.56	6.94 \pm 0.2	ND
S20	32.61 \pm 0.85	51.45 \pm 9.28	1.54 \pm 0.47
S21	ND	3.67 \pm 0.11	ND
S22	24.14 \pm 5.89	13.22 \pm 1.23	0.1 \pm 0.06
S23	12.37 \pm 1.64	32.82 \pm 8.69	0.09 \pm 0.04
S24	5.29 \pm 0.12	7.53 \pm 1.53	ND
S25	6.4 \pm 2.66	8.9 \pm 1.89	ND
S26	ND	47.2 \pm 4.39	0.67 \pm 0.1
S27	ND	3.74 \pm 0.11	ND
S28	9.52 \pm 0.38	8.38 \pm 1.82	0.19 \pm 0.16
S29	ND	37.99 \pm 6.37	0.87 \pm 0.03
S30	ND	6.61 \pm 0.23	ND
S31	35.49 \pm 1.93	10.8 \pm 0.57	0.67 \pm 0.1
S32	17.82 \pm 3.22	35.24 \pm 1.12	1.71 \pm 0.47
S33	34.45 \pm 1.14	11.65 \pm 0.52	0.69 \pm 0.06