

Variable	pH	P_ppm	K_ppm	Mg_ppm	Ca_ppm	S_ppm	Mn_ppm	Cu_ppm	B_ppm	Zn_ppm	Mo_ppm	Fe_ppm	Na_ppm	ClEC_meq_100gCo_1	N_2	Cl	Cu_1	Zn_1	Pb_3	As_1	Cd_3	Hg_1	Cr_1	CLAY_%_1	SILT_%_1	SAND_%_1	Organic						
Moisture	0.546		0.117	-0.356	0.496	0.267	0.781	-0.073	0.824	0.564	0.532	-0.287	-0.222	0.291	0.284	-0.317	0.663	0.191	0.771	0.757	0.847	0.606	0.319	0.837	0.025	0.385	-0.110	0.160	-0.109	0.685			
Net_CV	0.553		0.116	0.348	0.500	-0.279	0.631	-0.079	0.822	-0.279	0.535	-0.295	-0.296	0.273	0.275	-0.460	0.611	0.321	-0.077	0.665	0.611	0.321	-0.078	0.389	0.101	-0.052	0.114	0.032	0.032	0.685			
Al_1	0.557		0.114	-0.395	0.379	0.076	0.603	0.185	0.566	0.246	0.507	0.403	-0.180	0.028	0.477	0.490	-0.067	0.703	0.677	0.765	0.624	0.782	0.603	0.151	0.372	0.032	0.087	0.114	0.032	0.532	0.685		
Volatile_matter_1	0.464		-0.201	0.424	-0.352	-0.075	-0.637	0.129	0.798	-0.318	-0.487	0.403	0.243	-0.102	-0.062	0.419	0.519	0.000	0.722	0.699	0.794	-0.471	-0.290	0.799	-0.020	-0.200	0.301	-0.085	-0.025	-0.555	0.547		
GCV_2	0.297		0.200	-0.401	0.267	0.025	0.604	-0.201	0.759	0.175	0.450	-0.478	-0.208	0.146	0.024	0.460	0.504	-0.149	0.689	0.660	0.760	0.426	0.271	0.752	-0.072	0.230	-0.283	0.110	0.004	0.044	0.547		
C_1	0.499		0.162	-0.272	0.335	0.033	0.335	0.085	0.567	0.240	0.347	-0.205	-0.241	-0.039	0.014	-0.162	0.265	0.153	0.510	0.504	0.542	0.349	0.275	0.567	0.002	0.041	-0.206	0.107	-0.005	0.297			
H_2	0.458		0.213	0.331	0.259	0.011	-0.423	0.030	0.677	-0.344	0.241	0.318	0.228	0.029	0.046	0.311	-0.344	-0.009	-0.606	0.590	0.649	0.378	-0.302	-0.671	0.018	-0.072	0.279	-0.070	0.043	0.290			
N_1	0.457		0.143	-0.375	0.349	0.094	0.588	0.008	0.584	0.310	0.469	0.403	-0.163	0.099	0.212	0.245	0.048	0.739	0.708	0.788	0.516	0.789	0.592	0.238	0.569	0.200	-0.087	0.330	0.685				
Sulphur_2	0.500		0.000	-0.157	0.486	0.249	0.466	0.162	0.512	0.483	0.333	-0.065	-0.207	0.242	0.285	0.015	0.409	0.371	0.497	0.504	0.533	0.472	0.270	0.528	0.038	0.099	0.220	0.206	0.047	0.685			
Chlorine_2	-0.202		0.712	-0.465	0.167	-0.581	-0.330	0.443	-0.541	-0.297	0.727	-0.312	-0.609	-0.032	-0.492	0.460	-0.550	0.417	-0.543	-0.524	-0.452	-0.449	-0.576	-0.517	0.134	-0.409	0.085	-0.159	0.107	-0.562			
Ba	-0.173		-0.453	-0.395	0.225	-0.615	-0.306	0.440	-0.175	-0.550	-0.459	-0.529	-0.625	0.013	-0.507	0.357	-0.412	0.153	-0.183	-0.177	-0.124	-0.215	-0.198	-0.304	-0.271	0.082	0.171	-0.101	-0.386	0.685			
Cr	0.624		0.147	-0.271	0.593	0.273	0.606	0.079	0.879	0.500	0.575	-0.268	-0.268	0.307	0.311	-0.183	0.639	0.256	0.838	0.831	0.890	0.691	0.466	0.886	-0.157	0.414	-0.003	0.333	0.253	0.669			
Co	0.095		0.102	-0.362	0.383	-0.044	0.484	-0.050	0.751	0.232	0.374	-0.177	-0.265	0.232	0.242	-0.260	0.492	0.471	0.531	0.526	0.540	0.465	0.381	0.505	0.166	0.314	0.493	0.685					
Cu	0.754		0.176	-0.220	0.621	0.335	0.662	0.145	0.858	0.617	0.596	-0.130	-0.243	0.231	0.353	0.122	0.606	0.376	0.816	0.817	0.854	0.689	0.487	0.869	0.075	0.365	-0.006	0.304	0.232	0.632			
Mo	0.597		0.455	-0.155	0.252	0.370	0.675	-0.253	0.854	0.547	0.708	-0.076	0.035	0.303	0.504	-0.050	0.642	-0.031	0.786	0.767	0.808	0.571	0.444	0.852	0.116	0.285	-0.309	0.052	0.037	0.671			
Ni	0.016		0.128	-0.102	0.019	-0.205	-0.066	0.038	0.206	-0.294	0.081	-0.264	-0.139	-0.098	-0.203	-0.083	-0.043	-0.186	0.180	0.169	0.176	0.046	0.163	0.185	-0.235	-0.080	-0.135	0.138	-0.007	0.685			
V	0.573		0.299	0.329	0.445	0.387	0.791	-0.142	0.929	0.572	0.691	-0.200	-0.072	0.286	0.388	-0.382	0.751	0.078	0.880	0.863	0.932	0.701	0.484	0.930	-0.070	0.471	-0.099	0.240	0.168	0.779			
Zn	0.589		0.149	0.492	0.353	0.585	0.381	0.760	0.413	0.688	0.409	0.514	-0.267	0.270	0.309	0.309	-0.043	0.074	0.089	0.099	0.097	0.074	0.026	0.039	-0.122	0.571	0.077	0.238	0.585	0.075	0.685		
Sb	0.597		-0.067	0.753	-0.024	-0.686	0.830	0.518	0.329	0.000	0.818	0.818	-0.467	-0.055	0.872	-0.684	0.816	0.343	0.688	-0.500	0.576	0.517	0.550	0.542	0.588	0.708	-0.335	0.732	-0.542	0.188	0.708	-0.335	0.685
As	0.397		0.404	-0.152	0.622	-0.452	0.635	0.350	0.613	-0.260	0.436	0.126	-0.441	-0.609	-0.461	0.190	-0.635	0.126	-0.251	0.002	-0.609	0.230	0.517	0.350	-0.618	-0.342	0.020	0.256	-0.636	0.685			
Hg	-0.834		-0.049	-0.329	0.575	0.136	0.666	-0.810	-0.537	-0.181	-0.107	-0.638	0.851	0.519	0.154	-0.699	0.664	-0.638	-0.194	0.512	-0.223	-0.864	-0.810	0.555	-0.056	-0.531	0.186	0.706	0.479	-0.551	0.685		
Br	0.127		0.567	-0.404	0.225	-0.590	-0.568	0.071	0.607	-0.481	0.583	-0.165	-0.165	0.475	0.400	-0.067	0.610	0.464	0.286	0.071	0.610	0.464	0.286	0.071	0.604	0.464	0.286	0.071	0.604	0.464	0.286		
Cd_2	0.133		0.149	-0.092	0.199	0.052	0.153	0.199	0.057	0.374	0.057	0.374	0.057	0.374	0.057	0.374	0.057	0.374	0.057	0.374	0.057	0.374	0.057	0.374	0.057	0.374	0.057	0.374	0.057	0.374			
Pb_2	0.419		-0.055	0.005	0.193	0.375	0.175	-0.016	0.239	-0.047	0.395	0.010	0.659	-0.096	0.174	0.112	0.189	0.069	0.674	0.057	0.034	0.065	0.029	-0.031	0.026	-0.145	0.017	-0.127	0.089	0.008	0.089		
Al2O3_3	0.678		-0.181	-0.309	0.836	0.121	0.473	0.511	0.656	0.440	0.295	-0.265	0.564	0.364	0.230	0.272	0.388	0.647	0.643	0.661	0.701	0.623	0.380	0.674	-0.280	0.318	0.263	0.483	0.428	0.101	0.685		
BaQ_1	-0.294		0.590	-0.333	0.215	-0.668	-0.454	0.546	-0.376	-0.642	-0.625	-0.487	0.651	0.054	-0.530	0.532	-0.544	0.219	-0.359	-0.346	-0.283	0.378	-0.364	-0.295	0.224	0.205	-0.167	0.528	0.685				
CaCO3	0.058		0.357	0.683	-0.135	0.799	0.255	-0.307	0.066	0.576	0.437	0.690	0.718	0.270	0.763	-0.088	0.474	-0.052	0.140	0.149	0.044	0.326	0.308	0.074	0.023	0.537	0.331	0.100	-0.231	0.429	0.685		
Fe2O3_1	0.421		0.068	-0.315	0.550	0.056	0.542	0.136	0.796	0.184	0.433	-0.463	-0.380	0.318	0.129	-0.122	0.495	0.125	0.761	0.750	0.815	0.588	0.433	0.792	-0.362	0.353	0.030	0.424	-0.309	0.538			
K2O_1	-0.011		-0.181	-0.423	0.110	-0.619	-0.418	0.204	-0.278	-0.429	-0.414	-0.276	-0.400	-0.502	-0.665	0.067	-0.578	0.046	-0.344	-0.345	-0.301	-0.459	-0.348	-0.283	-0.242	-0.664	-0.411	-0.311	0.399	-0.554	0.685		
Mg_1	0.154		0.154	-0.346	0.317	-0.500	0.075	0.414	-0.344	0.381	0.331	-0.369	0.385	0.281	0.405	-0.485	0.395	-0.365	0.415	-0.305	0.414	-0.315	0.355	-0.334	0.314	-0.375	0.355	0.334	0.685				
MnO4_1	0.839		-0.680	-0.493	0.161	-0.749	-0.258	0.013	0.547	-0.771	-0.775	-0.712	-0.468	0.130	0.619	0.116	0.439	-0.248	0.539	0.557	0.427	0.558	-0.654	0.547	-0.153	0.220	0.089	0.437	0.685				
Na2O_1	-0.691		-0.696	-0.541	0.129	-0.399	0.316	-0.109	-0.133	-0.333	-0.462	-0.791	-0.455	0.644	-0.212	-0.021	0.110	-0.148	-0.113	-0.137	0.040	-0.128	-0.475	-0.119	-0.232	0.243	0.067	-0.147	0.104	0.685			
P2O_1	-0.540		-0.318	-0.347	-0.383	-0.814	-0.652	-0.076	-0.629	-0.841	-0.701	-0.389	-0.316	-0.432	-0.824	0.085	-0.774	-0.264	-0.674	-0.625	-0.743	-0.561	0.645	0.097	-0.692	-0.320	-0.342	0.398	-0.767				
SiO2_1	0.112		0.033	-0.418	0.092	-0.316	0.114	-0.014	0.303	-0.188	0.051	-0.449	-0.318	-0.140	-0.329	-0.225	-0.001	-0.117	0.235	0.219	0.292	0.021	0.011	0.292	-0.005	-0.175	-0.339	-0.040	0.158	0.039	0.685		
TiO2_1	0.572		-0																														