

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	CEC_meq_100gCo_1	N_2	Cl	Cu_1	Zn_1	Pb_3	N_1	As_1	Cd_3	Hg_1	Cr_1	CLAY_%_1	SILT_%_1	SAND_%_1	Organic		
Mixture	0.165	0.147	0.028	-0.194	-0.238	-0.348	0.386	-0.085	-0.240	0.235	-0.018	-0.182	-0.403	-0.221	0.364	-0.395	-0.148	-0.249	-0.230	-0.295	-0.292	-0.266	-0.196	-0.050	-0.238	-0.122	-0.224	0.280	-0.394	
Net_Cv	-0.217	-0.163	-0.034	0.220	0.199	-0.305	-0.387	0.042	0.170	-0.229	0.011	0.206	0.374	0.154	-0.373	0.372	0.090	0.213	0.206	0.344	0.251	0.254	0.163	0.069	0.206	0.127	0.231	-0.281	0.310	
Ash_1	0.246	-0.315	0.488	-0.199	0.145	-0.088	0.085	-0.279	0.173	-0.221	-0.182	0.138	0.290	-0.234	0.058	-0.195	-0.237	-0.355	-0.149	-0.103	0.082	-0.108	0.059	0.309	0.200	-0.034	-0.163	-0.081		
Volatile_matter_1	0.205	0.178	-0.179	-0.161	0.101	0.028	0.011	0.228	0.078	0.147	0.044	0.164	0.071	0.122	-0.130	-0.002	-0.063	0.058	0.078	-0.193	0.001	-0.125	-0.056	0.208	-0.114	-0.210	-0.032	-0.038	-0.081	
GOV_2	-0.362	0.070	-0.163	-0.066	-0.573	-0.512	0.317	-0.406	-0.277	0.342	-0.191	0.045	-0.519	-0.731	0.212	-0.469	-0.569	-0.449	-0.297	0.206	-0.541	-0.310	-0.284	0.041	-0.489	-0.145	-0.077	-0.181	-0.474	
C_1	-0.166	-0.062	0.285	-0.036	-0.569	-0.292	-0.569	0.297	-0.501	-0.474	0.179	0.002	-0.131	-0.520	-0.453	0.304	-0.512	-0.393	-0.482	-0.487	-0.032	-0.494	-0.335	0.050	-0.378	-0.063	-0.163	0.306	-0.412	
H_2	-0.238	-0.068	-0.373	0.164	-0.138	0.028	-0.071	0.026	-0.334	0.065	0.009	0.092	0.006	-0.329	-0.072	0.097	-0.173	0.046	0.172	0.361	0.038	0.292	0.058	-0.068	0.045	0.215	0.223	-0.276	0.029	
N_1	-0.271	-0.128	-0.039	-0.074	0.225	0.401	-0.127	-0.132	-0.027	-0.151	0.165	0.051	0.196	-0.066	-0.042	0.251	0.050	0.059	0.039	0.332	-0.079	0.240	0.259	-0.086	0.150	0.205	-0.133	-0.048	0.309	
Sulphur_2	-0.038	-0.150	-0.191	0.164	0.189	0.399	-0.123	0.305	0.135	0.057	-0.109	-0.016	0.249	0.050	-0.057	0.308	0.301	0.317	0.466	0.225	0.216	0.308	0.489	-0.046	0.371	0.227	0.041	-0.191	0.290	
Chlorine_2	-0.108	-0.164	-0.242	0.117	-0.259	0.038	0.091	0.090	-0.099	0.150	-0.038	-0.138	-0.056	-0.215	0.058	-0.072	-0.005	0.136	0.343	0.224	0.007	-0.034	0.378	-0.069	-0.017	0.069	0.308	-0.260	-0.128	
Ba	-0.329	-0.097	-0.091	0.227	-0.795	-0.413	0.518	-0.187	-0.555	0.445	-0.683	-0.182	-0.425	-0.682	0.329	-0.491	-0.265	-0.064	-0.027	0.391	-0.355	-0.591	0.082	-0.378	-0.491	-0.017	0.069	0.308	-0.166	-0.464
Cr	0.259	-0.026	0.414	-0.423	0.078	-0.014	0.280	-0.327	0.212	-0.372	0.304	-0.437	-0.159	0.193	0.402	-0.248	0.061	-0.143	-0.478	-0.391	-0.156	-0.221	-0.145	-0.336	-0.170	0.009	-0.092	0.161	-0.312	
Co	-0.039	-0.136	0.062	-0.119	0.370	-0.076	-0.183	-0.366	0.046	-0.256	0.545	0.059	-0.028	0.155	0.018	0.046	0.049	-0.347	-0.447	-0.233	-0.160	0.000	-0.352	0.350	0.174	0.142	-0.466	0.352	0.192	
Cu	0.142	-0.501	0.545	0.373	0.109	0.188	0.209	0.291	0.064	-0.333	-0.400	0.137	0.127	0.265	0.009	0.563	0.427	0.245	0.082	0.182	-0.364	0.519	-0.337	0.245	-0.009	0.055	0.036	0.155	0.155	
Mo	0.213	-0.072	0.691	-0.410	0.041	-0.170	0.267	-0.323	0.171	-0.387	0.212	-0.378	-0.225	0.198	0.414	-0.263	0.179	-0.230	-0.475	-0.558	-0.111	-0.429	-0.386	-0.090	-0.097	-0.157	-0.221	0.336	-0.147	
Ni	0.233	-0.502	0.697	0.159	0.588	0.366	-0.415	-0.005	-0.706	-0.683	0.354	-0.214	0.474	0.683	-0.183	0.369	0.499	0.305	0.014	-0.150	0.492	0.150	0.146	0.023	0.465	0.333	0.314	-0.323	0.424	
V	0.294	-0.113	0.715	-0.339	0.046	-0.199	0.302	-0.247	0.181	-0.357	0.211	-0.432	-0.228	0.209	0.455	-0.274	0.233	-0.172	-0.441	-0.594	-0.046	-0.432	-0.377	-0.137	-0.056	-0.130	-0.176	0.306	-0.139	
Zn	-0.068	-0.133	0.045	-0.082	-0.500	-0.468	0.645	-0.055	-0.691	0.645	-0.474	-0.145	-0.557	-0.729	0.484	-0.591	-0.261	-0.209	-0.045	-0.055	-0.536	-0.768	-0.050	0.073	-0.418	-0.327	-0.194	0.255	-0.536	
Sb	-0.289	-0.148	0.866	0.289	-0.289	0.000	-0.289	-0.289	0.577	-0.866	0.148	-0.289	0.000	0.289	0.289	0.000	0.289	0.289	-0.289	0.000	0.289	0.000	-0.148	-0.577	0.000	0.000	0.577	0.000	0.000	0.000
Cu	-0.564	0.026	0.564	-0.051	-0.462	0.103	-0.154	-0.564	0.308	-0.872	-0.132	-0.154	-0.103	-0.051	0.359	-0.103	0.051	0.051	-0.359	0.103	-0.051	-0.103	-0.026	-0.410	-0.205	-0.103	0.410	0.103	-0.103	-0.103
Hg	0.707	-0.544	0.707	0.707	0.000	-0.354	0.000	0.707	0.354	0.000	0.181	-0.707	0.000	0.354	0.354	0.000	0.707	0.707	0.354	-0.354	0.707	0.000	0.000	-0.707	0.354	0.354	0.707	-0.354	0.000	0.000
Br	0.300	0.616	-0.300	-0.700	-0.900	-0.900	0.900	-0.100	-0.700	0.300	0.718	-0.500	-0.700	-0.900	0.600	-0.600	0.600	-0.600	-0.600	-0.900	-0.700	-0.900	-0.462	-0.600	-0.900	-0.700	-0.200	0.700	-0.700	-0.700
Cd_2	-0.027	-0.446	0.118	0.436	-0.018	0.179	0.264	0.182	-0.091	0.264	-0.446	-0.227	0.123	-0.236	0.183	-0.018	0.200	0.445	0.218	0.436	0.027	-0.273	0.191	-0.483	0.018	0.027	0.191	-0.155	0.018	0.018
Pb_2	-0.087	-0.478	0.009	0.100	-0.464	-0.303	0.236	-0.328	-0.336	-0.073	-0.173	-0.518	-0.379	-0.455	0.352	-0.409	-0.256	-0.118	-0.009	0.164	-0.145	-0.073	0.196	-0.205	-0.164	0.409	0.636	-0.473	0.436	
Al2O3_1	-0.344	-0.323	0.457	0.370	-0.091	-0.166	-0.055	-0.183	-0.224	-0.032	-0.130	-0.155	0.062	-0.205	-0.117	0.018	-0.009	0.027	-0.137	0.324	0.005	-0.388	-0.240	0.023	-0.073	-0.215	0.055	0.082	0.100	0.100
BaO_1	-0.262	-0.072	-0.212	0.161	-0.856	-0.547	0.567	-0.231	-0.096	0.475	-0.561	-0.230	-0.560	-0.793	0.396	-0.604	-0.429	-0.175	-0.097	0.313	-0.419	-0.507	-0.012	-0.349	-0.553	-0.212	0.226	0.041	0.599	
CaCO3	0.580	-0.326	0.500	-0.236	0.364	-0.041	-0.018	-0.114	0.418	-0.418	0.497	-0.455	-0.032	0.436	0.196	-0.155	0.112	-0.055	-0.255	-0.609	0.100	0.009	-0.027	0.105	0.127	0.409	0.264	-0.291	-0.127	
Fe2O3_1	0.000	-0.244	0.191	0.400	-0.518	-0.647	0.455	-0.141	-0.545	0.418	-0.318	-0.521	-0.573	0.438	-0.527	-0.200	-0.164	-0.191	0.082	-0.227	-0.355	-0.137	-0.255	-0.227	0.036	0.309	0.298	0.118	-0.373	
K2O_1	-0.571	0.441	-0.182	-0.400	-0.609	-0.335	0.245	-0.551	-0.564	-0.091	-0.128	0.118	-0.434	-0.509	0.201	-0.264	-0.409	-0.527	-0.436	0.136	-0.418	-0.182	-0.006	-0.159	-0.473	-0.400	-0.309	0.473	-0.282	
MgO_1	-0.297	0.124	-0.469	0.464	-0.255	-0.009	-0.027	0.378	0.464	-0.469	0.318	0.078	-0.300	-0.183	0.182	0.074	0.464	0.445	0.155	0.073	0.137	-0.027	0.109	-0.008	-0.208	-0.045	0.073	0.000	0.000	
MnSO4_1	-0.518	0.510	-0.452	-0.324	-0.498	-0.382	0.192	-0.398	-0.749	-0.092	-0.126	-0.411	-0.452	-0.662	0.108	-0.306	-0.668	-0.333	0.205	-0.658	-0.151	-0.442	0.224	-0.356	-0.484	-0.466	0.466	-0.361	-0.361	
Na2O_1	-0.370	0.051	-0.373	-0.018	-0.582	-0.041	0.282	0.146	-0.345	0.318	0.888	0.073	-0.137	-0.455	0.059	-0.136	-0.047	0.127	0.427	0.291	-0.091	-0.464	0.164	-0.046	-0.273	-0.491	0.164	-0.018	-0.227	
PSO5_1	-0.443	0.543	-0.227	0.027	-0.682	-0.229	-0.155	0.128	-0.245	0.400	-0.182	0.382	0.137	-0.227	-0.342	0.273	-0.214	-0.027	0.200	0.599	-0.173	0.336	0.123	0.041	-0.073	-0.227	-0.427	0.273	0.182	
SiO2_1	0.014	-0.363	-0.109	0.536	-0.455	-0.349	0.382	0.164	-0.482	0.173	-0.292	0.318	-0.260	-0.555	0.324	-0.291	0.065	0.218	0.382	0.300	0.064	-0.173	0.137	-0.082	0.136	0.442	-0.082	0.136	0.442	-0.282
TiO2_1	-0.017	-0.393	0.598	0.400	0.551	0.246	-0.342	0.169	0.232	-0.139	0.241	0.226	0.449	0.290	-0.286	0.418	0.392	0.284	0.070	0.110	0.308	-0.041	-0.017	0.125	0.418	0.035	-0.133	0.023	0.534	
Al	-0.338	-0.345	0.509	0.291	-0.082	-0.170	-0.018	-0.205	-0.255	-0.064	-0.100	0.118	0.023	-0.227	-0.050	0.000	0.014	-0.009	-0.155	0.255	0.018	-0.418	-0.282	0.055	-0.055	-0.209	0.009	0.109	0.091	
Mn	-0.479	0.455	-0.291	-0.373	-0.427	-0.376	0.218	-0.465	-0.700	0.364	-0.055	0.336	-0.479	-0.618	0.096	-0.336	-0.614	-0.409	-0.127	-0.799	-0.191	-0.428	0.241	-0.500	-0.318	-0.582	0.545	-0.355	-0.355	
Na	-0.365	0.055	-0.336	-0.109	-0.682	-0.170	0.355	-0.009	-0.427	0.264	-0.822	-0.127	-0.283	-0.527	0.174	-0.264	-0.135	-0.009	0.300	0.209	-0.173	0.482	0.055	-0.064	-0.345	-0.445	-0.382	0.000	-0.345	
P	-0.105	0.382	-0.491	-0.045	-0.036	-0.124	-0.045	0.150	-0.127	-0.009	-0.009	-0.264	-0.032	-0.118	-0.078	0.109	-0.084	-0.109	-0.173	0.136	-0.191	0.364	0.219	0.041	0.091	0.045	-0.464	0.264	0.100	
Si	0.132	-0.372	0.027	0.355	-0.536	-0.514	0.555	0.014	-0.564	0.349	-0.187	-0.500	-0.470	-0.627	0.534	-0.518	-0.181	0.055	0.078											