

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_100g_Co_1	N_2	C13	Cu_1	Zn_1	Pb_3	Ni_1	As_1	Cd_3	Hg_1	Cr_1	CLAY_1	SILT_1	SAND_1	Organic	
Misture	0.618	0.378	-0.097	0.378	0.558	-0.728	-0.094	0.943	0.705	0.758	-0.002	0.025	0.122	0.459	-0.304	0.719	0.115	0.008	0.897	0.928	0.745	0.553	0.693	0.035	0.386	-0.143	0.189	-0.108	0.745
Net_Cv	-0.634	-0.372	0.072	-0.388	-0.538	-0.727	0.077	-0.941	-0.736	-0.765	-0.027	-0.031	-0.139	-0.493	0.281	-0.730	-0.142	-0.924	-0.909	-0.926	-0.765	-0.567	-0.954	-0.026	-0.406	0.112	-0.209	0.134	-0.754
As_1	0.384	0.389	-0.409	0.052	0.016	-0.260	0.739	0.232	0.509	-0.292	-0.056	-0.223	-0.102	-0.527	0.372	-0.177	0.635	0.604	0.690	0.296	0.237	0.732	0.258	-0.059	-0.569	-0.176	0.316	0.420	
Volatile_matter_1	-0.378	-0.259	0.485	-0.175	0.026	-0.523	0.171	-0.746	-0.233	-0.445	0.387	0.187	0.107	0.096	0.436	-0.387	0.088	-0.652	-0.624	-0.728	-0.341	-0.217	-0.746	-0.170	-0.002	0.462	0.084	-0.215	-0.434
GOV_2	0.128	0.305	-0.566	-0.070	-0.157	0.460	-0.366	0.433	-0.013	0.368	-0.498	-0.079	-0.163	-0.248	-0.602	0.324	-0.352	0.529	0.484	0.609	0.152	0.090	0.619	0.196	0.064	-0.593	-0.221	0.357	0.374
C_1	0.501	0.565	-0.037	-0.183	-0.195	-0.354	0.028	0.257	-0.121	0.293	0.176	0.051	-0.828	-0.416	-0.218	-0.327	-0.091	0.150	0.147	0.075	-0.110	0.269	0.228	0.320	-0.657	-0.675	-0.276	0.478	-0.276
H_2	-0.354	-0.467	0.260	0.113	0.258	0.065	0.092	-0.451	0.177	-0.322	0.176	0.065	0.576	0.418	0.360	0.098	0.215	-0.340	-0.319	-0.328	-0.005	-0.238	-0.422	-0.181	0.445	0.653	0.196	-0.402	0.037
N_1	0.384	0.162	-0.533	0.252	-0.153	0.408	-0.032	0.682	0.123	0.337	-0.449	-0.128	-0.113	-0.193	-0.306	0.363	-0.006	0.593	0.572	0.671	0.301	0.198	0.680	0.079	-0.066	-0.403	-0.011	0.157	0.314
Sulphur_2	0.372	-0.350	-0.363	0.225	-0.248	-0.238	0.392	0.292	-0.397	0.181	-0.400	-0.377	-0.285	-0.352	0.463	0.595	-0.408	-0.374	-0.358	-0.304	-0.404	-0.326	0.600	0.537	-0.130	-0.364	0.306	-0.485	
Chlorine_2	-0.059	-0.670	-0.621	0.127	-0.640	-0.330	0.350	-0.644	-0.140	-0.787	-0.219	-0.602	-0.188	-0.594	0.351	-0.643	0.443	-0.686	-0.666	-0.574	-0.597	-0.750	-0.612	0.482	-0.587	-0.081	-0.411	0.327	-0.666
Ba	0.135	-0.857	-0.464	0.752	-0.489	-0.213	0.836	-0.276	-0.112	-0.634	-0.376	0.930	0.188	-0.243	0.823	-0.391	0.785	-0.234	-0.186	-0.140	-0.006	-0.241	-0.242	-0.363	-0.081	0.568	0.433	-0.465	-0.400
Cr	0.061	0.179	-0.232	0.580	0.272	0.565	0.183	0.888	0.238	0.579	-0.166	-0.255	0.147	0.289	-0.061	0.532	0.294	0.856	0.861	0.893	0.724	0.542	0.806	-0.160	0.291	-0.021	0.361	-0.246	0.568
Co	-0.545	-0.234	-0.619	-0.236	-0.758	-0.050	-0.217	-0.108	-0.784	-0.390	-0.842	-0.344	-0.012	-0.707	-0.278	-0.226	-0.451	-0.165	-0.209	-0.053	-0.419	-0.422	-0.129	-0.100	-0.245	-0.320	-0.191	0.267	-0.189
Cu	0.811	0.171	-0.213	0.638	0.240	0.403	0.324	0.789	0.582	0.518	-0.016	-0.335	-0.018	0.229	0.063	0.359	0.453	0.748	0.766	0.766	0.652	0.524	0.804	-0.042	0.110	-0.052	0.303	-0.184	0.392
Mo	0.551	0.527	-0.160	0.120	0.362	0.604	-0.264	0.870	0.544	0.737	-0.016	0.131	-0.151	0.229	-0.506	0.575	-0.090	0.791	0.769	0.806	0.522	0.443	0.865	0.252	0.135	-0.450	-0.077	0.191	0.611
Ni	0.565	0.727	0.332	0.088	0.766	0.602	-0.294	0.917	0.694	0.923	0.336	0.467	-0.016	0.635	-0.443	0.762	-0.128	0.895	0.883	0.828	0.743	0.743	0.910	-0.026	0.427	-0.195	0.157	-0.070	0.785
V	0.504	0.370	-0.088	0.370	0.457	0.730	0.116	0.981	0.553	0.738	-0.130	0.009	0.215	0.441	-0.318	0.754	0.014	0.993	0.940	0.976	0.773	0.598	0.984	-0.150	0.470	-0.085	0.301	-0.201	0.788
Zn	0.500	0.379	0.169	0.194	0.696	0.737	-0.279	0.978	0.677	0.978	0.133	0.220	0.150	0.619	-0.444	0.842	-0.103	0.951	0.935	0.928	0.791	0.681	0.968	-0.052	0.528	-0.126	0.220	-0.143	0.866
Sb	0.993	-0.082	0.569	0.814	-0.042	-0.756	0.962	0.596	0.393	0.000	0.866	0.929	-0.575	-0.067	0.928	-0.754	0.866	0.408	0.758	-0.577	0.445	0.948	0.982	-0.620	0.228	0.775	-0.399	-0.796	
As	0.997	-0.269	0.715	0.909	0.148	-0.619	1.000	0.434	0.560	-0.189	0.945	-0.988	-0.410	0.122	0.972	-0.616	0.945	0.574	0.868	-0.413	0.606	0.955	1.000	-0.461	0.408	0.881	-0.565	-0.668	
Hg	0.999	0.310	-0.744	-0.926	-0.191	0.584	0.938	-0.394	-0.595	0.231	-0.958	0.981	0.370	-0.165	0.958	-0.582	-0.958	-0.608	-0.888	0.373	-0.640	0.952	0.999	0.422	-0.447	-0.950	0.600	0.635	
Bv	0.107	0.884	-0.676	-0.357	0.988	-0.806	0.032	0.935	-0.810	0.938	-0.296	-0.182	-0.296	-0.296	-0.296	-0.296	-0.800	-0.460	-0.754	-0.775	0.326	0.032	0.988	-0.899	-0.445	0.806	0.786		
Cd_2	0.300	0.877	-0.383	-0.332	0.436	0.575	-0.618	0.598	0.487	0.728	0.193	0.763	-0.355	0.140	-0.779	0.487	-0.384	0.496	0.455	0.518	0.190	0.185	0.593	0.632	-0.026	-0.709	-0.501	0.557	0.506
Pb_2	0.642	-0.496	0.716	0.892	0.290	-0.211	0.939	-0.009	0.476	-0.078	0.732	-0.800	0.220	0.417	0.892	-0.134	0.995	0.070	0.146	0.023	0.425	0.391	0.024	-0.352	0.120	0.695	0.621	-0.650	-0.155
Al2O3_1	0.798	-0.196	-0.142	0.922	0.267	0.318	0.661	0.566	0.657	0.274	0.046	-0.552	0.272	0.381	0.494	0.279	0.810	0.586	0.634	0.611	0.709	0.466	0.599	-0.265	0.265	0.403	0.572	-0.530	0.287
SiO2_1	-0.087	-0.880	-0.297	0.572	-0.518	-0.398	0.783	-0.534	-0.291	-0.773	-0.290	-0.834	0.335	-0.268	0.861	-0.523	0.671	-0.468	-0.400	-0.402	-0.181	-0.336	-0.507	-0.410	0.104	0.640	0.401	-0.466	-0.542
CaCO3	-0.089	0.231	0.626	-0.145	0.783	0.332	-0.317	0.046	0.529	0.364	0.543	0.648	0.348	0.770	-0.122	0.521	-0.112	0.126	0.127	0.055	0.309	0.216	0.056	-0.003	0.590	0.317	0.086	-0.229	0.474
Fe2O3_1	0.448	0.186	-0.258	0.457	0.096	0.475	0.108	0.845	0.212	0.506	-0.354	-0.291	0.153	0.130	-0.126	0.462	0.088	0.812	0.804	0.850	0.620	0.512	0.842	-0.321	0.267	-0.057	0.393	-0.244	0.511
K2O_1	0.036	-0.152	-0.479	-0.033	-0.822	-0.578	0.304	-0.251	-0.649	-0.440	-0.374	-0.518	-0.536	-0.895	0.144	-0.723	0.051	-0.331	-0.340	-0.302	-0.493	-0.263	-0.269	0.082	-0.768	-0.383	-0.195	0.337	-0.678
MgO_1	-0.071	-0.694	-0.485	0.523	-0.663	-0.317	0.664	-0.228	-0.511	0.607	-0.593	-0.881	0.225	-0.474	0.618	-0.454	0.434	-0.206	-0.190	0.123	-0.121	0.204	-0.239	-0.509	-0.149	0.375	0.414	-0.368	-0.436
Mn3O4_1	-0.860	-0.585	-0.480	-0.242	-0.746	-0.174	-0.132	-0.558	-0.841	-0.741	-0.759	-0.339	-0.269	-0.596	-0.007	-0.341	-0.343	-0.549	-0.580	-0.431	-0.587	-0.681	-0.565	-0.199	-0.101	0.062	-0.129	0.076	-0.342
Na2O_1	-0.787	-0.644	-0.499	0.008	-0.357	0.389	-0.233	-0.207	-0.380	-0.479	-0.809	-0.306	0.719	-0.138	-0.091	0.204	-0.253	-0.168	-0.202	-0.004	-0.163	-0.544	-0.193	-0.278	0.415	0.291	0.055	-0.174	0.188
P2O5_1	-0.402	-0.129	-0.321	-0.359	-0.846	-0.641	0.032	-0.472	-0.788	-0.542	-0.424	-0.163	-0.472	-0.869	-0.005	-0.722	-0.305	-0.527	-0.544	-0.511	-0.685	-0.397	-0.503	-0.015	-0.660	-0.353	-0.261	0.362	-0.687
SiO2_1	0.492	0.331	-0.419	0.116	0.135	0.558	-0.231	0.697	0.482	0.504	-0.152	-0.047	-0.212	0.907	-0.483	0.408	-0.020	0.595	0.572	0.660	0.315	0.170	0.705	0.446	-0.051	-0.543	-0.263	0.353	0.439
TiO2_1	0.736	-0.169	0.364	0.762	0.357	-0.209	0.850	0.097	0.530	0.097	0.536	-0.326	0.118	0.456	0.827	-0.082	0.907	0.172	0.248	0.089	0.501	0.493	0.123	-0.352	0.126	0.638	0.637	-0.639	-0.098
Al	0.733	0.081	-0.176	0.732	0.366	0.577	0.306	0.848	0.670	0.549	-0.066	-0.330	0.242	0.415	0.091	0.548	0.469	0.837	0.855	0.871	0.795	0.556	0.869	-0.186	0.366	0.141	0.446	-0.366	0.572
Ca	0.454	0.467	-0.265	0.060	0.298	0.653	-0.347	0.																					