

Applied multivariate statistical analysis as a tool for assessing groundwater reactions in the Niebla-Posadas aquifer, Spain

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INPUT ENDMEMBER CONCENTRATIONS

	SC	DIC	Cl	Na	Ca	NH4	Br	I	B	34S
PZ	5.98E+03	3.90E+02	1.70E+03	1.20E+03	8.80E+01	7.52E+00	6.40E+00	7.21E-01	2.26E+00	17.323
Mb	1.42E+03	4.28E+02	9.86E+01	2.49E+02	8.00E-01	2.88E+00	2.69E-01	5.10E-02	9.36E-01	12.079
R	727.018	262.026	18.013	14.255	76.150	0.093	0.097	0.008	0.020	3.700

Table S1. Input end-members concentration

INPUT POINT CONCENTRATION

ID	X	Y	SC	DIC	Cl	Na	Ca	NH4	Br	I	B	34S
1	755730	4153990	1.96E+03	3.51E+02	2.13E+02	3.06E+02	1.48E+00	3.20E+00	9.28E-01	9.64E-02	9.77E-01	15.163
2	754151	4158231	6.07E+02	2.14E+02	1.26E+01	1.63E+01	6.86E+01	1.00E-01	1.19E-01	8.65E-03	5.22E-02	5.899
3	752940	4155600	8.16E+02	2.53E+02	3.93E+01	5.15E+01	4.53E+01	8.00E-01	2.01E-01	1.71E-02	1.61E-01	9.300
4	760710	4157080	4.00E+03	3.51E+02	9.07E+02	6.97E+02	6.41E+01	4.20E+00	4.38E+00	1.45E+00	1.52E+00	8.364
5	757498.27	4155601.64	1846.154	328.642	198.568	247.336	2.075	3.400	0.810	0.075	0.612	12.079
6	759265	4155410	2824.299	419.484	571.258	586.816	11.444	6.000	2.584	0.313	2.361	12.079
7	754673.6	4155250	837.325	308.130	44.356	77.615	33.734	1.000	0.226	0.028	0.232	13.400
8	754402.7	4154865.1	833.992	308.130	36.037	71.330	35.930	1.100	0.201	0.032	0.159	13.500
9	752587	4154480	788.066	280.673	38.617	69.157	50.095	3.000	0.246	0.025	0.180	8.100
10	757103.296	4153334.26	2467.803	520.161	428.201	506.311	3.685	5.100	1.928	0.213	2.401	6.698
11	753166.19	4157406.4	916.295	236.437	24.651	17.038	98.675	0.200	0.124	0.009	0.063	6.300
12	756934.37	4154812.75	1441.239	570.886	91.437	255.677	0.995	2.800	0.417	0.045	0.927	17.323
13	757003.646	4154533.77	2325.843	457.619	459.898	475.854	2.978	4.200	1.756	0.184	1.701	17.323
14	756527	4154633	1396.780	401.180	97.141	221.147	0.973	2.700	0.449	0.064	0.770	17.323
15	756844	4155054	1889.098	305.080	238.033	273.136	2.627	2.800	0.860	0.103	0.628	17.323
16	757155.05	4154757.8	5817.490	399.654	1348.986	978.867	69.663	9.600	5.411	0.644	2.203	17.323
17	757801.053	4154797.99	2713.740	440.840	538.429	519.696	19.074	6.400	2.172	0.219	2.236	17.323
18	757430	4154298	2499.058	457.619	472.102	512.130	3.795	5.300	1.756	0.214	2.152	17.323
19	757987.078	4155195.29	2858.223	419.484	568.701	564.119	10.351	4.900	2.099	0.307	2.194	17.323

20	759787.753	4156704	1972.921	442.365	233.148	310.770	2.429	2.900	0.940	0.146	1.480	17.323
21	754630	4159753	902.523	268.470	19.127	14.590	102.650	0.100	0.093	0.008	0.019	3.700
22	755509	4160304	1028.027	427.111	27.698	15.824	120.176	0.100	0.142	0.007	0.031	5.900
23	748321.75	4158514.41	921.875	381.349	15.525	14.827	108.997	0.100	0.140	0.007	0.025	5.800
24	748226	4158955	998.741	297.453	35.012	14.786	118.309	0.200	0.182	0.008	0.027	5.800
25	759714.55	4160525.95	956.842	442.365	39.421	30.844	97.753	0.500	0.224	0.013	0.154	6.200
26	760454.29	4159026.57	1103.412	320.333	83.085	102.853	46.845	1.200	0.407	0.078	0.445	11.400
27	753248.98	4157251.79	628.788	236.437	16.438	19.314	68.038	0.200	0.107	0.008	0.017	6.800
28	756925	4154194	2510.000	402.352	589.100	469.135	5.072	4.698	1.139	0.203	1.637	17.323
29	756611	4154739	1006.000	475.506	110.640	208.181	1.743	2.678	0.100	0.057	0.757	17.323
30	757053.893	4155276.96	1491.000	317.004	305.800	277.696	4.045	3.225	0.932	0.097	0.793	17.323
31	756850.5	4156421.5	877.000	487.699	119.730	51.172	122.397	0.129	0.100	0.022	0.126	6.870
32	754587	4155678	812.000	317.004	128.630	122.743	31.973	1.083	0.381	0.036	0.449	14.474
33	759688.22	4155050	2750.000	548.661	625.330	525.184	0.959	8.877	0.399	0.342	3.147	6.870
34	760710	4157080	1499.000	426.736	276.410	271.327	13.269	1.908	0.923	0.189	1.223	8.364
35	755206.8	4154897.9	943.000	182.887	148.430	163.051	0.888	1.700	0.347	0.139	1.486	6.870
36	755769	4154086	2360.000	304.812	522.640	422.367	7.559	4.185	1.508	0.203	1.594	6.870
37	754498.46	4157936.5	491.000	292.619	38.870	33.684	58.428	0.043	0.100	0.015	0.057	6.870
38	758577	4155430	987.000	365.774	151.380	122.980	63.742	5.040	0.100	0.127	0.753	6.870

Table S2. Coordinates of the sampling points and their input concentration used for the MIX calculation