APCA 9 - remove 7/2 - 7/6

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Loadings

element	MeanConc	source_1	source_2	source_3	source_4	source_5	source_6	source_7	source_8	source_9	r_squared	PredConc	Pct_error
aluminum	22.18	2.93	0.32	13.26	2.21	0.01	2.53	1.82	3.60	1.01	0.51	27.69	24.87
ammonium	1120.78	312.61	4.32	143.07	250.32	71.52	-20.31	213.10	66.63	-23.82	0.87	1017.46	-9.22
arsenic	0.49	0.21	0.01	0.04	0.04	0.00	0.01	0.12	0.03	-0.03	0.21	0.43	-12.06
barium	1.87	0.41	0.29	0.37	0.07	-0.11	0.16	1.20	-0.66	0.78	0.60	2.50	33.67
bromine	3.06	1.75	0.33	0.28	0.26	-0.06	0.10	0.17	0.09	-0.06	0.50	2.85	-6.97
cadmium	1.68	-0.15	-0.06	0.00	0.06	0.12	-0.09	-0.29	0.03	0.33	0.10	-0.03	-101.96
calcium	51.85	7.63	3.07	9.45	1.71	5.79	-3.43	15.66	-2.41	3.30	0.65	40.80	-21.31
chlorine	37.07	23.02	46.69	-3.08	-0.68	0.21	1.31	3.00	-11.19	-2.64	0.70	56.66	52.84
chromium	2.13	0.51	-0.09	0.36	-0.12	0.09	3.24	-0.29	-0.57	-0.36	0.74	2.76	29.28
copper	4.55	1.63	-0.04	0.53	0.24	0.12	0.30	2.78	0.08	0.03	0.67	5.68	24.84
EC	707.73	79.65	5.10	55.24	19.56	33.19	-48.83	584.27	-36.70	10.26	0.81	701.73	-0.85
iron	105.50	8.77	0.74	19.14	2.99	1.77	8.87	61.48	-0.74	-0.08	0.96	102.93	-2.43
lead	2.02	1.66	0.04	0.12	0.17	0.11	-0.03	0.24	-0.03	0.13	0.53	2.41	19.81
magnesium	7.12	0.33	6.94	0.48	0.11	-0.32	0.29	-0.98	-0.34	0.70	0.88	7.21	1.33
manganese	2.10	0.58	0.02	0.29	0.12	0.20	0.08	1.03	0.01	0.01	0.73	2.35	11.77
nickel	4.94	1.16	0.09	0.04	0.34	1.04	0.58	0.53	0.35	0.02	0.97	4.16	-15.82
nitrate	1613.47	738.45	115.04	-25.93	162.00	140.58	24.05	504.59	-306.69	36.83	0.57	1388.93	-13.92
OC	2693.20	534.07	-38.37	348.18	257.86	-34.99	6.50	741.21	339.67	25.73	0.85	2179.86	-19.06
pm25	10322.11	2566.78	197.63	1358.66	1329.70	160.99	-44.05	2427.30	1280.82	-17.28	0.84	9260.54	-10.28
potassium	36.15	21.79	4.63	4.03	5.16	-0.04	2.05	-0.40	1.00	4.71	0.43	42.93	18.76
selenium	0.40	0.09	0.01	0.05	0.09	0.03	0.00	-0.07	0.08	0.05	0.43	0.35	-12.44
silicon	61.01	2.17	1.62	40.35	3.05	1.16	-1.49	13.21	-1.17	2.08	0.93	60.98	-0.06
sodium	95.65	-1.45	65.99	5.83	1.41	3.53	-4.33	9.65	9.91	-5.24	0.95	85.31	-10.81
sulfur	788.05	110.29	-1.64	157.78	163.23	9.62	-19.24	78.93	239.60	-25.31	0.84	713.26	-9.49
titanium	2.37	-0.14	0.02	1.00	0.16	0.03	-0.08	1.23	0.19	0.16	0.52	2.58	8.89
vanadium	2.86	0.59	0.11	0.59	0.51	0.36	-0.30	1.50	1.30	-0.15	0.68	4.51	57.79
zinc	26.09	20.94	0.33	-1.42	0.00	2.68	-1.42	6.49	-3.92	-0.47	0.96	23.21	-11.06

Source proportions

element	source_1	source_2	source_3	source_4	source_5	source_6	source_7	source_8	source_9
aluminum	10.60	1.14	47.87	8.00	0.03	9.14	6.59	13.00	3.64
ammonium	29.45	0.41	13.48	23.58	6.74	0.00	20.07	6.28	0.00
arsenic	46.07	1.46	9.48	7.96	0.00	3.16	25.43	6.44	0.00
barium	12.62	8.75	11.38	2.11	0.00	4.84	36.61	0.00	23.69
bromine	58.79	11.02	9.31	8.76	0.00	3.29	5.79	3.04	0.00
cadmium	0.00	0.00	0.90	10.90	22.21	0.00	0.00	6.26	59.74
calcium	16.37	6.59	20.27	3.68	12.42	0.00	33.59	0.00	7.08
chlorine	31.01	62.90	0.00	0.00	0.29	1.77	4.04	0.00	0.00
chromium	12.07	0.00	8.58	0.00	2.23	77.11	0.00	0.00	0.00
copper	28.57	0.00	9.33	4.21	2.16	5.17	48.64	1.39	0.53
EC	10.12	0.65	7.02	2.48	4.22	0.00	74.22	0.00	1.30
iron	8.46	0.71	18.45	2.88	1.70	8.55	59.25	0.00	0.00
lead	67.13	1.71	4.67	6.95	4.34	0.00	9.84	0.00	5.36
magnesium	3.78	78.35	5.44	1.23	0.00	3.28	0.00	0.00	7.92
manganese	24.76	0.93	12.33	5.10	8.57	3.58	43.94	0.56	0.25
nickel	27.86	2.26	1.07	8.21	25.07	14.02	12.83	8.30	0.39
nitrate	42.89	6.68	0.00	9.41	8.17	1.40	29.31	0.00	2.14
OC	23.70	0.00	15.45	11.44	0.00	0.29	32.90	15.07	1.14
pm25	27.54	2.12	14.57	14.26	1.73	0.00	26.04	13.74	0.00
potassium	50.24	10.68	9.29	11.89	0.00	4.74	0.00	2.31	10.85
selenium	22.97	3.15	11.63	21.96	7.83	1.00	0.00	18.57	12.90
silicon	3.41	2.54	63.40	4.80	1.82	0.00	20.76	0.00	3.27
sodium	0.00	68.51	6.05	1.46	3.67	0.00	10.02	10.28	0.00
sulfur	14.52	0.00	20.78	21.49	1.27	0.00	10.39	31.55	0.00
titanium	0.00	0.85	35.62	5.76	1.10	0.00	44.16	6.62	5.88
vanadium	11.81	2.13	11.99	10.36	7.32	0.00	30.18	26.21	0.00
zinc	68.79	1.10	0.00	0.00	8.79	0.00	21.32	0.00	0.00

Bar graph of the above proportions