

APCA 6

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Loadings

element	MeanConc	source_1	source_2	source_3	source_4	source_5	source_6	r_squared	PredConc	Pct_error
aluminum	22.52	0.53	0.14	17.85	3.28	3.77	1.84	0.46	27.41	21.69
ammonium	1119.33	297.48	18.11	165.20	633.99	-29.96	10.12	0.93	1094.94	-2.18
arsenic	0.49	0.11	0.00	0.04	0.10	0.10	0.01	0.16	0.37	-24.44
barium	1.95	0.02	0.10	0.61	-0.04	2.75	-0.05	0.48	3.38	73.60
bromine	3.05	0.80	0.24	0.22	0.62	0.63	-0.25	0.34	2.26	-25.93
cadmium	1.68	0.16	-0.08	0.10	-0.08	0.04	-0.17	0.01	-0.03	-101.70
calcium	51.67	20.67	2.26	15.99	3.09	0.19	-0.44	0.56	41.75	-19.20
chlorine	36.83	16.38	37.11	-4.76	2.35	0.67	-1.03	0.66	50.72	37.74
chromium	2.13	0.50	-0.01	0.34	-0.32	-0.61	3.50	0.27	3.40	59.57
copper	4.63	1.40	-0.10	0.82	0.62	2.13	0.85	0.75	5.73	23.85
EC	706.94	217.93	-6.03	131.88	83.51	100.63	93.46	0.49	621.37	-12.10
iron	105.50	18.74	-0.55	31.07	8.71	12.47	29.37	0.93	99.81	-5.39
lead	2.01	1.19	0.00	0.13	0.31	0.70	-0.36	0.48	1.98	-1.33
magnesium	7.32	-1.37	5.55	0.44	-0.11	4.64	-0.52	0.92	8.62	17.62
manganese	2.09	0.96	0.02	0.50	0.29	0.11	0.43	0.76	2.30	10.06
nickel	4.91	2.84	0.18	0.33	0.58	-0.84	1.31	0.70	4.41	-10.25
nitrate	1604.06	811.33	96.30	6.78	484.56	57.48	73.55	0.56	1530.00	-4.62
OC	2706.61	198.88	-60.89	447.88	578.12	572.63	91.84	0.76	1828.46	-32.44
pm25	10356.26	1529.27	121.13	1706.43	3221.43	1410.67	221.75	0.84	8210.68	-20.72
potassium	39.33	4.17	3.37	3.88	9.98	41.41	-6.82	0.51	56.00	42.36
selenium	0.39	0.08	0.01	0.06	0.17	0.03	-0.02	0.29	0.33	-17.34
silicon	61.29	5.75	1.00	54.76	6.19	1.54	-3.71	0.95	65.52	6.90
sodium	95.14	9.11	52.87	10.18	3.30	-12.39	6.09	0.91	69.17	-27.30
sulfur	791.26	2.28	4.07	177.78	385.46	50.82	-2.72	0.85	617.69	-21.94
titanium	2.39	0.13	-0.02	1.51	0.30	0.43	0.17	0.49	2.52	5.60
vanadium	2.86	1.08	0.11	0.88	1.03	0.18	0.32	0.44	3.61	26.19
zinc	25.90	19.98	0.31	-1.57	1.02	3.54	-3.76	0.93	19.51	-24.65

Source proportions

element	source_1	source_2	source_3	source_4	source_5	source_6
aluminum	1.92	0.51	65.13	11.98	13.76	6.70
ammonium	26.44	1.61	14.69	56.36	0.00	0.90
arsenic	28.96	0.93	11.34	28.05	27.34	3.39
barium	0.54	2.85	17.65	0.00	78.96	0.00
bromine	31.82	9.61	8.77	24.78	25.03	0.00
cadmium	53.09	0.00	34.19	0.00	12.73	0.00
calcium	48.99	5.35	37.89	7.33	0.45	0.00
chlorine	28.98	65.67	0.00	4.17	1.18	0.00
chromium	11.62	0.00	7.80	0.00	0.00	80.58
copper	24.10	0.00	14.03	10.71	36.57	14.60
EC	34.73	0.00	21.02	13.31	16.04	14.90
iron	18.67	0.00	30.96	8.67	12.43	29.27
lead	50.89	0.13	5.60	13.38	29.99	0.00
magnesium	0.00	52.21	4.10	0.00	43.69	0.00
manganese	41.50	0.80	21.77	12.52	4.81	18.59
nickel	54.02	3.48	6.30	11.14	0.00	25.05
nitrate	53.03	6.29	0.44	31.67	3.76	4.81
OC	10.53	0.00	23.71	30.60	30.31	4.86
pm25	18.63	1.48	20.78	39.23	17.18	2.70
potassium	6.64	5.37	6.18	15.89	65.92	0.00
selenium	23.69	2.82	16.91	48.27	8.31	0.00
silicon	8.30	1.44	79.10	8.94	2.22	0.00
sodium	11.17	64.82	12.48	4.05	0.00	7.47
sulfur	0.37	0.66	28.65	62.13	8.19	0.00
titanium	5.02	0.00	59.44	11.75	16.93	6.87
vanadium	30.00	2.99	24.33	28.69	5.05	8.94
zinc	80.40	1.26	0.00	4.11	14.23	0.00

Bar graph of the above proportions

