

APCA 7 - remove 7/2 - 7/6

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1/23/2021

## Loadings

element	MeanConc	source_1	source_2	source_3	source_4	source_5	source_6	source_7	r_squared	PredConc	Pct_error
aluminum	22.18	0.44	0.03	16.38	4.82	5.02	2.96	-2.34	0.59	27.31	23.12
ammonium	1120.78	171.89	10.37	125.72	719.67	-132.57	0.38	145.21	0.92	1040.68	-7.15
arsenic	0.49	0.07	0.01	0.03	0.14	0.14	0.02	0.00	0.18	0.40	-17.51
barium	1.87	0.01	0.17	0.48	0.07	1.67	-0.06	0.71	0.25	3.06	63.47
bromine	3.06	0.49	0.30	0.18	0.95	1.25	0.07	-0.49	0.48	2.76	-10.01
cadmium	1.68	0.11	-0.07	0.10	-0.08	0.06	-0.15	0.05	0.01	0.02	-99.02
calcium	51.85	13.79	2.81	13.25	3.52	-2.62	-4.07	13.44	0.64	40.14	-22.59
chlorine	37.07	10.22	43.24	-4.88	5.37	8.92	0.91	-3.28	0.68	60.49	63.19
chromium	2.13	0.53	-0.15	0.46	-0.09	-0.26	3.79	-0.91	0.68	3.37	58.04
copper	4.55	0.86	-0.07	0.51	0.87	1.63	0.39	1.41	0.67	5.60	23.03
EC	707.73	100.83	1.79	57.15	79.68	105.44	-51.30	422.43	0.83	716.02	1.17
iron	105.50	7.49	-0.12	21.55	10.73	16.99	11.62	37.46	0.95	105.72	0.21
lead	2.02	0.81	0.03	0.09	0.58	1.16	-0.09	-0.23	0.55	2.34	16.28
magnesium	7.12	-0.69	6.35	0.51	0.05	2.20	0.13	-0.61	0.87	7.93	11.48
manganese	2.10	0.59	0.02	0.36	0.37	0.12	0.15	0.65	0.73	2.26	7.65
nickel	4.94	2.18	0.12	0.31	0.73	-1.49	0.97	0.76	0.89	3.58	-27.68
nitrate	1613.47	521.51	104.33	-36.39	599.59	73.22	11.02	274.37	0.56	1547.65	-4.08
OC	2693.20	35.50	-47.38	309.54	719.73	689.05	22.46	329.86	0.82	2058.75	-23.56
pm25	10322.11	728.04	171.87	1236.17	3838.14	1512.75	83.86	1127.97	0.85	8698.81	-15.73
potassium	36.15	6.32	3.76	3.56	14.36	21.69	0.76	-6.03	0.39	44.42	22.88
selenium	0.40	0.05	0.01	0.05	0.20	0.03	0.00	-0.02	0.30	0.33	-15.28
silicon	61.01	3.19	1.23	46.51	7.97	2.65	-3.22	6.16	0.97	64.50	5.72
sodium	95.65	3.71	61.13	6.85	2.74	-9.45	-0.51	10.54	0.92	75.01	-21.58
sulfur	788.05	-20.42	1.91	145.36	431.75	-0.52	9.08	40.59	0.82	607.74	-22.88
titanium	2.37	-0.04	0.00	1.20	0.32	0.39	-0.11	0.88	0.53	2.63	10.87
vanadium	2.86	0.61	0.12	0.63	1.17	0.00	-0.04	1.06	0.45	3.54	24.10
zinc	26.09	13.67	0.52	-1.53	3.30	7.30	-1.80	0.30	0.93	21.74	-16.68

## Source proportions

element	source_1	source_2	source_3	source_4	source_5	source_6	source_7
aluminum	1.49	0.10	55.25	16.26	16.93	9.97	0.00
ammonium	14.65	0.88	10.72	61.34	0.00	0.03	12.38
arsenic	16.55	1.76	7.15	35.34	33.47	5.62	0.11
barium	0.26	5.56	15.44	2.33	53.60	0.00	22.81
bromine	15.18	9.16	5.69	29.38	38.42	2.16	0.00
cadmium	33.66	0.00	31.78	0.00	18.54	0.00	16.02
calcium	29.45	6.01	28.31	7.52	0.00	0.00	28.70
chlorine	14.88	62.99	0.00	7.82	12.99	1.32	0.00
chromium	10.99	0.00	9.65	0.00	0.00	79.36	0.00
copper	15.16	0.00	9.00	15.29	28.77	6.96	24.83
EC	13.14	0.23	7.45	10.38	13.74	0.00	55.05
iron	7.08	0.00	20.36	10.14	16.06	10.98	35.39
lead	30.38	1.11	3.32	21.79	43.41	0.00	0.00
magnesium	0.00	68.77	5.49	0.54	23.79	1.42	0.00
manganese	26.10	0.78	15.93	16.51	5.17	6.76	28.74
nickel	43.06	2.32	6.10	14.45	0.00	19.09	14.98
nitrate	32.92	6.59	0.00	37.85	4.62	0.70	17.32
OC	1.69	0.00	14.70	34.17	32.72	1.07	15.66
pm25	8.37	1.98	14.21	44.12	17.39	0.96	12.97
potassium	12.52	7.46	7.05	28.46	43.00	1.51	0.00
selenium	14.32	2.86	15.28	57.96	8.33	1.25	0.00
silicon	4.72	1.82	68.69	11.77	3.92	0.00	9.09
sodium	4.37	71.95	8.06	3.22	0.00	0.00	12.41
sulfur	0.00	0.30	23.12	68.68	0.00	1.44	6.46
titanium	0.00	0.00	42.89	11.43	14.12	0.00	31.56
vanadium	17.10	3.33	17.50	32.54	0.07	0.00	29.46
zinc	54.50	2.05	0.00	13.17	29.10	0.00	1.18

Bar graph of the above proportions

