

Table S.3. Chemical composition of solution samples recovered from contrast leaching experiment 1 on Lakeview, Nanticoke and Atikokan fly ashes after 10 days' reaction (in mg·L⁻¹). Note the amount of PCD or TCD added to fly ash is a half of that used in the primary leaching experiments.

	SO ₄ ²⁻	B	Cr	Se	Mo	F	As	Zn	Cd	Si	Cl	Fe	Al	Na	K	Ca	Mg
6LAP	504.0	7.17	0.048	0.060	0.033	1.34	0.016	0.032	0.000	6.96	40.5	0.105	4.43	29.6	84.5	283.4	0.44
12LAP	299.3	5.48	0.033	0.028	0.024	0.31	0.012	0.117	0.000	7.48	30.2	0.162	3.75	15.6	49.3	208.4	0.84
6LAT	18.7	0.17	0.003	0.004	0.011	0.28	0.004	0.031	0.000	0.92	23.1	0.117	5.18	31.0	138.4	371.8	0.28
12LAT	17.5	0.16	0.005	0.012	0.009	0.17	0.003	0.038	0.000	0.65	23.6	0.020	3.42	14.5	61.6	423.0	0.08
6NAP	105.1	6.35	0.022	0.034	0.021	1.74	0.009	0.028	0.000	9.99	38.7	0.162	5.30	13.6	45.6	83.2	0.55
12NAP	81.2	5.33	0.019	0.034	0.019	0.15	0.002	0.039	0.000	9.49	29.8	0.158	4.90	4.8	24.4	76.8	0.62
6NAT	19.4	0.15	0.004	0.011	0.012	1.34	0.002	0.163	0.000	0.59	24.0	0.059	1.83	24.5	92.8	411.2	0.19
12NAT	17.8	0.12	0.004	0.000	0.010	0.08	0.004	0.109	0.000	0.56	23.7	0.041	2.05	10.3	45.2	443.8	0.13
6AAP	20.6	0.74	0.016	0.020	0.027	0.52	0.004	0.110	0.000	11.2	36.0	0.713	44.6	277.6	12.2	100.4	0.84
12AAP	26.0	2.07	0.026	0.048	0.035	0.56	0.002	0.110	0.000	14.7	35.6	1.137	52.3	136.0	7.0	91.6	1.26
6AAT	52.4	1.50	0.005	0.015	0.011	1.03	0.003	0.138	0.000	4.83	44.4	0.826	11.4	234.6	9.7	328.4	1.43
12AAT	28.4	0.34	0.004	0.007	0.012	0.00	0.002	0.011	0.000	1.72	26.7	0.005	6.21	152.8	6.2	418.6	0.03