

Table S1: Summary of filter samples analyzed in this study, by plume, duration of filter sample collection, and PM_{2.5} mass concentrations in sampled smoke plumes (with uncertainty).

Plume ¹	Duration of sampling (min:sec)	PM mass (mg m ⁻³)	PM mass uncertainty (mg m ⁻³)
A-2	20:09	1.96E+01	1.96E+00
B	16:02	1.30E+00	1.30E-01
E-1	20:04	1.81E+00	1.81E-01
E-2	19:10	5.60E+00	5.60E-01
F-1	21:09	1.77E+01	1.77E+00
F-2	19:31	1.97E+01	1.97E+00
I	21:28	6.73E+00	6.73E-01
J	20:05	1.13E+01	1.13E+00
L	20:04	1.05E+01	1.05E+00
M	20:08	1.58E+01	1.58E+00
O	19:56	1.94E+01	1.94E+00
P	11:25	4.02E+01	4.02E+00
Q	30:39	1.26E+01	1.26E+00
R	31:53	1.01E+01	1.01E+00
S	30:29	1.20E+01	1.20E+00
T	29:53	1.45E+01	1.45E+00
V	29:46	1.56E+01	1.56E+00
W-1	09:20	3.39E+01	3.39E+00
W-2	15:03	1.92E+01	1.92E+00
X	15:29	2.68E+01	2.68E+00
Y	20:05	1.39E+01	1.39E+00
Z	20:26	1.07E+01	1.07E+00
AA	20:00	8.66E+00	8.66E-01

1) Additional information each plume is available in Stockwell et al. (2016, Table S1), including sampling location, peat type, burning inclusions, burn depth, surface fuels, temperature, relative humidity, wind, and other sampling notes.