

Supplement Table S1. Chemical composition of soils.

		Landfill	Coal dump	Urban park	Sandpit	Farmland
Fe	%	2.24	2.07	1.07	0.70	0.79
Ca		0.20	0.83	0.47	0.41	0.06
P		0.07	0.05	0.06	0.03	0.09
Mg		0.35	0.31	0.10	0.09	0.07
Al		0.83	0.45	0.40	0.40	0.57
Na		<0.01	<0.01	<0.01	<0.01	<0.01
K		0.15	0.10	0.09	0.06	0.07
S		0.04	0.22	0.07	0.03	0.03
Ti		0.05	0.01	0.01	0.01	0.01
Mo	ppm	1.05	1.28	1.29	0.55	0.62
Cu		50.29	37.11	32.69	9.33	11.24
Pb		89.71	78.17	157.99	152.86	103.06
Zn		305.37	188.03	543.97	200.03	129.77
Ni		24.97	28.27	9.80	7.60	7.27
Co		8.97	11.57	4.33	3.10	4.20
Mn		442.67	387.33	242.00	218.00	487.00
As		7.07	4.23	11.77	8.87	8.97
U		1.57	1.07	0.53	0.53	0.83
Th		5.93	3.50	0.77	1.30	0.37
Sr		18.67	36.17	17.27	20.97	6.83
Cd		2.50	1.30	3.91	3.24	1.41
Sb		1.03	2.48	1.20	0.80	0.71
Bi		0.55	0.48	0.40	0.16	0.24
V		25.00	31.67	10.67	10.00	21.00
La		21.67	11.00	6.50	7.83	9.23
Cr		56.60	18.73	13.03	8.70	12.80
Ba		82.30	114.50	92.30	90.90	66.40
B		0.00	0.00	0.00	0.00	0.00
W		0.23	0.20	0.63	0.23	0.30
Sc		3.73	3.27	1.13	1.20	0.67
Tl		0.32	0.48	0.34	0.33	0.29
Se		0.33	1.07	0.70	0.30	0.40
Te		0.02	0.04	0.02	0.02	0.00
Ga		4.63	2.30	1.60	1.50	2.23
Cs		2.23	2.67	0.84	0.87	0.87
Ge		0.03	0.07	0.00	0.00	0.00
Hf		0.02	0.03	0.00	0.00	0.00
Nb		0.80	0.33	0.28	0.33	0.22
Rb		18.70	14.90	6.33	8.17	11.00
Sn		3.10	2.20	6.50	1.50	1.50
Ta		0.00	0.00	0.00	0.00	0.00
Zr		1.47	1.50	0.47	0.40	0.13
Y		10.29	6.14	4.33	3.81	3.42
Ce		42.70	25.57	13.67	16.63	18.53
In		0.02	0.02	0.01	0.01	0.01
Be		0.87	0.93	0.77	0.33	0.37
Li		16.27	8.53	4.00	3.47	4.87
Ag	ppb	401.67	173.00	290.00	133.00	162.00
Au		9.57	1.67	0.97	0.63	0.80
Hg		144.00	262.33	155.33	47.67	66.67
Re		0.00	0.00	0.00	0.00	0.00
Pd		26.67	0.00	36.33	23.33	10.67
Pt		0.67	1.67	1.33	1.00	0.00

Supplement Table S2. Chemical composition of *Robinia pseudoacacia* parts.

		Landfill			Coal dump			Urban park			Sandpit			Farmland		
		Leaves	Branches	Seeds	Leaves	Branches	Seeds	Leaves	Branches	Seeds	Leaves	Branches	Seeds	Leaves	Branches	Seeds
Fe	%	0.03	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.01
Ca		2.38	1.47	0.53	1.72	0.97	0.36	1.76	1.05	0.43	1.14	1.19	0.48	1.16	0.64	0.39
P		0.16	0.08	0.27	0.14	0.07	0.19	0.16	0.15	0.25	0.19	0.14	0.20	0.14	0.08	0.13
Mg		0.14	0.10	0.09	0.26	0.10	0.11	0.10	0.08	0.09	0.16	0.13	0.10	0.11	0.04	0.10
Al		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Na		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
K		1.50	0.97	2.20	1.36	0.64	2.07	1.35	0.80	1.86	1.30	1.01	1.36	1.48	0.49	1.23
S		0.17	0.13	0.20	0.28	0.13	0.30	0.16	0.14	0.09	0.18	0.17	0.13	0.22	0.09	0.20
Ti	ppm	7.00	3.33	9.33	7.00	4.00	5.67	8.00	5.00	8.67	8.33	4.67	8.33	7.33	6.67	4.67
Mo		1.31	1.91	2.66	1.79	6.37	9.51	2.01	7.61	2.64	0.52	3.40	2.59	0.14	0.13	0.30
Cu		8.47	9.48	10.60	6.10	7.07	6.83	3.93	7.21	4.98	6.39	6.47	6.96	9.04	8.69	6.52
Pb		2.70	3.17	0.75	3.28	3.51	0.52	2.93	1.74	1.21	3.46	8.02	2.53	4.12	16.35	4.91
Zn		103.37	94.93	60.90	30.33	27.60	23.77	61.67	80.63	49.67	44.40	61.93	46.37	94.53	103.80	54.27
Ni		3.17	4.63	6.20	1.03	1.53	3.17	0.30	0.90	0.57	0.40	0.67	0.47	2.57	4.93	1.93
Co		0.22	0.17	0.27	0.12	0.07	0.07	0.07	0.05	0.03	0.05	0.07	0.03	0.10	0.17	0.09
Mn		167.67	27.00	43.00	23.33	8.33	11.67	17.00	8.67	10.67	25.00	12.00	16.33	157.00	39.33	29.33
As		0.23	0.00	0.03	0.10	0.03	0.00	0.27	0.03	0.00	0.00	0.00	0.00	0.03	0.13	0.03
U		0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Th		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.07
Sr		122.53	104.47	28.90	61.97	55.20	16.13	32.73	28.00	8.53	19.87	34.87	9.53	35.70	32.50	12.50
Cd		0.58	0.63	0.18	0.26	0.15	0.06	0.20	0.19	0.09	0.37	0.89	0.37	0.77	1.18	0.51
Sb		0.11	0.10	0.01	0.08	0.03	0.00	0.11	0.04	0.04	0.06	0.05	0.03	0.07	0.19	0.10
Bi		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
V		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
La		0.81	0.20	0.06	0.03	0.01	0.00	0.03	0.00	0.00	0.03	0.02	0.00	0.17	0.26	0.06
Cr		1.40	1.60	1.17	1.47	1.23	1.63	1.53	1.77	1.30	1.33	1.73	1.17	1.30	1.60	1.67
Ba		79.10	28.63	19.53	13.17	5.70	3.17	23.47	7.57	5.80	21.83	23.00	12.93	49.07	28.87	19.00
B		52.00	19.33	27.33	59.33	18.67	20.67	96.33	28.67	33.67	45.00	22.33	27.33	29.33	25.33	22.00
W		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Sc		0.30	0.33	0.40	0.30	0.27	0.43	0.30	0.40	0.47	0.33	0.33	0.33	0.37	0.37	0.40
Tl		0.00	0.01	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.04	0.07	0.01
Se		0.00	0.00	0.00	0.13	0.00	0.00	0.60	0.27	0.50	0.20	0.10	0.13	0.00	0.00	0.00
Te		0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ga		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cs		0.15	0.06	0.13	1.79	0.83	3.29	0.01	0.00	0.00	0.05	0.05	0.05	0.00	0.00	0.00
Ge		0.05	0.04	0.06	0.05	0.02	0.02	0.05	0.03	0.05	0.03	0.02	0.04	0.06	0.02	0.01

[illegible]