

Common contaminant background concentrations ranges in soils for the Wellington Region

Contaminant	Detection Level	Soil Type 1	Soil Type 2	Soil Type 3	Soil Type 4	Soil Type 5
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Soluble Boron	0.1	0.3 – 2.1	0.9 – 2.2	0.3 – 1.6	0.7 – 2.7	1 – 2.6
Arsenic	2	<2 – 7	<2 – 7	2 – 7	2 – 7	<2 – 4
Cadmium	0.1	<0.1 – 0.1	<0.1 – 0.1	<0.1 – 0.2	<0.1 – 0.2	<0.1 – 0.2
Chromium	1	7 – 12	6 – 16	9 – 18	11 – 21	8 – 15
Copper	1	4 – 10	3 – 25	5 – 19	7 – 19	6 – 19
Mercury	0.1	<0.1 – 0.1	<0.1 – 0.2	<0.1 – 2.6	<0.1 – 0.1	<0.1 – 0.1
Nickel	1	4 – 9	4 – 13	5 – 14	6 – 21	5 – 13
Lead	1	4.5 – 180	5.9 – 78.6	16.7 – 73.3	9.4 – 34.0	10.8 – 38.1
Zinc	1	28 – 79	24 – 105	38 – 201	44 – 121	31 – 72
TPH	8 - 60	<40 – 110	<30 – 190	<40 – 260	<30 – 820	<40 – 460
(PAHs)						
Anthracene	0.002 - 0.005	<0.002 – 0.010	<0.002 – 0.050	<0.002 – 0.040	<0.002 – 0.050	<0.002 – 0.010
Benzo[a]pyrene	0.002 - 0.005	<0.002 – 0.080	<0.002 – 0.270	<0.002 – 0.330	<0.002 – 0.310	<0.002 – 0.010
Fluoranthene	0.002 - 0.005	<0.002 – 0.140	<0.002 – 0.550	<0.002 – 0.390	<0.002 – 0.570	<0.002 – 0.020
Naphthalene	0.002 - 0.005	<0.002 – 0.010	<0.002 – 0.010	<0.002 – 0.010	<0.002 – 0.020	<0.004
Phenanthrene	0.002 - 0.005	<0.002 – 0.007	<0.002 – 0.260	<0.002 – 0.120	<0.002 – 0.350	<0.002 – 0.010
Pyrene	0.002 - 0.005	<0.002 – 0.120	<0.002 – 0.570	<0.002 – 0.460	<0.002 – 0.600	<0.002 – 0.020