

Appendix II : First Batch of Test Results for Environmental Contamination on Campus

The following contaminants are tested:

- a) Dioxins;
- b) Total Polychlorinated Biphenyls (PCBs);
- c) Polycyclic Aromatic Hydrocarbons (PAHs);
- d) Total Cyanide; and
- e) 2-Chlorobenzalmalononitrile (an active ingredient of CS powder), also called o-Chlorobenzylidene Malononitrile

Received test results for soil (S1-8), tap water (WA1-4), and surface wipes (W1-22) samples are summarized below. Results not yet received are shown as “pending” in the tables below. We expect the results will be available in Jan 2020.

For soil samples (S1-8):

Contaminant	Test result	Reference Level	Reference Document
Dioxins	0.0041-0.0084 ng/g	1 ng/g	Risk-Based Remediation Goals (RBRGs) for Soil (Public Parks), published by EPD, HKSAR
Total PCBs	<0.2 mg/kg (below reporting limit)	0.756 mg/kg	
PAHs	<0.5 mg/kg (below reporting limit)	3.83-10,000 mg/kg	
Total Cyanide	<1 mg/kg (below reporting limit)	4,900 mg/kg	
2-Chlorobenzalmalononitrile (CS)	<25 µg/kg (below reporting limit)	-	No applicable reference

For tap water samples (WA1-4):

Contaminant	Test result	Reference Level	Reference Document
Dioxins	<4.9 pg/L (below reporting limit)	30 pg/L	Maximum Contaminant Level (MCL) given in National Primary Drinking Water Regulations (NPDWR) by EPA, USA.
Total PCBs	<0.5 µg/L (below reporting limit)	0.5 µg/L	
PAHs	<0.1 µg/L (below reporting limit)	0.2 µg/L as benzo(a)pyrene (BaP)	
Total Cyanide	<0.1 mg/L (below reporting limit)	0.2 mg/L	
2-Chlorobenzalmalononitrile (CS)	<1 µg/L (below reporting limit)	-	No applicable reference

For surface wipe samples (W1-22):

Contaminant	Test result	Reference Level	Reference Document
Dioxins	<0.19 ng/m ² (below reporting limit)	-	No applicable reference
Total PCBs	<20 µg/m ² (below reporting limit)	-	
PAHs	<ul style="list-style-type: none"> • <0.4 - 1.6µg/m² as naphthalene • <0.4 - 1.3 µg/m² as phenanthrene • <0.4 - 0.44 µg/m² as pyrene • <0.4 µg/m² for other PAHs (below reporting limit) 	-	
Total Cyanide	< 1 µg/m ² (below reporting limit)	-	No applicable reference
2-Chlorobenzalmalononitrile (CS)	<0.2 µg/m ² (below reporting limit)	-	No applicable reference

For air samples (A1-8):

Contaminant	Test result	Reference Level	Reference Document
Dioxins	<i>pending</i>	0.1 pg TEQ/m ³ (note 1)	24hr averaging time limit under the Ontario's Ambient Air Quality Criteria (AAQC), Canada
Total PCBs	<i>pending</i>	0.15 µg/m ³	
PAHs	<i>pending</i>	0.00005 µg/m ³ as benzo(a)pyrene (BaP)	
Total Cyanide	<i>pending</i>	8 µg/m ³	
2-Chlorobenzalmalononitrile (CS)	< 0.1 mg/m ³ (below reporting limit)	0.4 mg/m ³ (REL-C)	Recommended Exposure Limit (REL) by NIOSH, USA.

Note 1 The reference level given by Japan Environmental Standard for Dioxins (annual) is 0.6pg TEQ/m³.