



**The Hong Kong University of Science & Technology – Health, Safety and Environment
Office Laboratory**

香港科技大學 – 健康、安全及環境處實驗室

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- CLIENTELE** : Conditionally available for public testing
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ACCREDITED TEST : Environmental Testing 環境測試

CATEGORY
認可測試類別

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Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Indoor Air Quality Testing - Collectate sampled by Single-stage N6 Andersen Sampler or Biostage sampler on agar plates	Microbiological examinations: - Airborne bacteria count (uncorrected number of colonies on agar plate) (30 °C for 2 days) Airborne Molds & Yeasts (uncorrected number of colonies on agar plate) (25 °C for 5 days)	In-house method PAM027 In-house method PAM028
Potable water, Swimming pool water and Decorative water fountain	Heterotrophic Plate Count	APHA 21e 9215 A and 9215 B
Potable water and Swimming pool water	Coliform <i>E. coli</i>	In-house method SAM051 (Membrane Filtration Method by CHROMagar) In-house method SAM051 (Membrane Filtration Method by CHROMagar)

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Potable Water	Physical Examinations:- - Total Dissolved Solids dried at 180°C - Color - Conductivity Non-metallic Constituents:- - Fluoride - Nitrogen (Nitrate) Trace metals (Total recoverable):- - Copper, Zinc, Iron Trace metals (Total):- - Antimony, Arsenic, Cadmium, Lead, Nickel, Chromium - Mercury	APHA 17e 2540 C APHA 22e 2120 C APHA 22e 2510 B APHA 21e 4110 B APHA 21e 4110 B In-house method SAM032 (ICP-OES) In-house method SAM045 (ICP-MS) In-house method SAM049 (ICP-MS)
Wastewater	Physical Examinations:- - Total Suspended Solids dried at 103 - 105°C - Settleable Solids Non-metallic Constituents:- - Nitrogen (TKN+NO ₂ +NO ₃) - Phosphorus (total) - Sulphide	APHA 17e 2540 D APHA 19e 2540 F APHA 21e 4110 B and 4500-N C APHA 21e 4500-P B. 5. Persulphate digestion method & 4500-P C. APHA 21e 4500-S ²⁻ D & F

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Wastewater (cont'd)	Trace metals (Total):- - Arsenic, Lead, Selenium, Cadmium - Mercury Organic Pollutants:- - Chemical Oxygen Demand - 5-Day Biochemical Oxygen Demand - Oil & Grease	In-house method SAM052 (microwave digestion and ICP-MS) In-house method SAM053 (microwave digestion and ICP-MS) In-house method SAM008 (closed reflux, colorimetric) APHA 21e 5210 A & B APHA 21e 5520 A & B
Water and Wastewater	Physical Examinations:- - pH value - Turbidity	In-house method SAM001 (Electrometric) In-house method SAM006 (Nephelometric)
Potable Water and Wastewater	Non-metallic Constituents:- - Sulphate	APHA 21e 4110 B